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1.3 run-one 1.17-0ubuntu1

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Upstream-Name: run-one

Upstream-Contact: Dustin Kirkland <dustin.kirkland@gmail.com>

Source: <http://launchpad.net/run-one>

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Version 3, 29 June 2007

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1.4 libauthen-sasl-perl 2.1600-1

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Upstream-Contact: Graham Barr <gbarr@pobox.com>

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1.5 libcrypt-random-seed-perl 0.03-1

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Upstream-Name: Crypt-Random-Seed

Source: <https://metacpan.org/release/Crypt-Random-Seed/>

Upstream-Contact: Dana A Jacobsen <dana@acm.org>

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1.6 libencode-locale-perl 1.05-1

1.6.1 Available under license :

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: Encode-Locale

Upstream-Contact: Gisle Aas <gisle@activestate.com>

Source: <https://metacpan.org/release/Encode-Locale>

Files: *

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Files: debian/*

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1.7 libfile-listing-perl 6.04-1

1.7.1 Available under license :

Format-Specification: <http://anonscm.debian.org/viewvc/dep/web/deps/dep5.mdwn?view=markup&pathrev=135>

Maintainer: Gisle Aas <gisle@activestate.com>

Source: <http://search.cpan.org/dist/File-Listing/>

Name: File-Listing

Files: *

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Files: debian/*

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2011, Jonathan Yu <jawnsy@cpan.org>

2011, Nicholas Bamber <nicholas@peript.co.uk>

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1.8 libio-html-perl 1.001-1

1.8.1 Available under license :

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Upstream-Name: IO::HTML

Upstream-Contact: Christopher J. Madsen <perl@cjmweb.net>

Source: <http://search.cpan.org/dist/IO-HTML/>

git://github.com/madsen/io-html.git

Files: *

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Upstream-Name: FIXME
Upstream-Contact: FIXME
Source: FIXME
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Files: Changes

MANIFEST

META.json

META.yml

Makefile.PL
debian/README.source
debian/compat
debian/control
debian/control.in
debian/gbp.conf
debian/source/format
debian/watch
t/00-all_prereqs.t
t/00-load.t
xt/release/pod-coverage.t
xt/release/pod-syntax.t
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Files: README
t/10-find.t
t/20-open.t
t/30-outfile.t
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1.9 libtest-json-perl 0.11-2

1.9.1 Available under license :

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: Test-JSON

Upstream-Contact: Curtis "Ovid" Poe <ovid@cpan.org>

Source: <https://metacpan.org/release/Test-JSON>

Files: *

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1.10 libtypes-serialiser-perl 1.0-1

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Source: <https://metacpan.org/release/Types-Serialiser>

Upstream-Contact: Marc Lehmann <schmorp@schmorp.de>

Upstream-Name: Types-Serialiser

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1.11 libfont-afm-perl 1.20-2

1.12 lua 5.2.4

1.13 libidn 1.33-2ubuntu2

1.13.1 Available under license :

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1.16 libnetfilter-contrack 1.0.7-2

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1.19 libsigsegv 2.12-2

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/* List of signals that are sent when an invalid virtual memory address is accessed, or when the stack overflows. */

```
#define SIGSEGV_FOR_ALL_SIGNALS(var,body) \
{ int var; var = SIGSEGV; { body } var = \
SIGBUS; { body } }
```

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```
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```

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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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```
#define SIGSEGV_FAULT_HANDLER_ARGLIST int sig, int code, void *scp, void *addr
#define SIGSEGV_FAULT_ADDRESS addr
```

1.20 net-tools 1.60+git20180626.aebd88e-1ubuntu1

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1.23 log-rotate 3.14.0-4ubuntu3

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1.24 fonts-ubuntu 0.83-4ubuntu1

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Ubuntu Font Family Licensing FAQ

Stylistic Foundations

The Ubuntu Font Family is the first time that a libre typeface has been designed professionally and explicitly with the intent of developing a public and long-term community-based development process.

When developing an open project, it is generally necessary to have firm foundations: a font needs to maintain harmony within itself even across many type designers and writing systems. For the [1]Ubuntu Font Family, the process has been guided with the type foundry Dalton Maag setting the project up with firm stylistic foundation covering several

left-to-right scripts: Latin, Greek and Cyrillic; and right-to-left scripts: Arabic and Hebrew (due in 2011).

With this starting point the community will, under the supervision of [2]Canonical and [3]Dalton Maag, be able to build on the existing font sources to expand their character coverage. Ultimately everybody will be able to use the Ubuntu Font Family in their own written languages across the whole of Unicode (and this will take some time!).

Licensing

The licence chosen by any free software project is one of the foundational decisions that sets out how derivatives and contributions can occur, and in turn what kind of community will form around the project.

Using a licence that is compatible with other popular licences is a powerful constraint because of the [4]network effects: the freedom to share improvements between projects allows free software to reach high-quality over time. Licence-proliferation leads to many incompatible licences, undermining the network effect, the freedom to share and ultimately making the libre movement that Ubuntu is a part of less effective. For all kinds of software, writing a new licence is not to be taken lightly and is a choice that needs to be thoroughly justified if this path is taken.

Today it is not clear to Canonical what the best licence for a font project like the Ubuntu Font Family is: one that starts life designed by professionals and continues with the full range of community development, from highly commercial work in new directions to curious beginners' experimental contributions. The fast and steady pace of the Ubuntu release cycle means that an interim libre licence has been necessary to enable the consideration of the font family as part of Ubuntu 10.10 operating system release.

Before taking any decision on licensing, Canonical as sponsor and backer of the project has reviewed the many existing licenses used for libre/open fonts and engaged the stewards of the most popular licenses in detailed discussions. The current interim licence is the first step in progressing the state-of-the-art in licensing for libre/open font development.

The public discussion must now involve everyone in the (comparatively new) area of the libre/open font community; including font users, software freedom advocates, open source supporters and existing libre

font developers. Most importantly, the minds and wishes of professional type designers considering entering the free software business community must be taken on board.

Conversations and discussion has taken place, privately, with individuals from the following groups (generally speaking personally on behalf of themselves, rather than their affiliations):

- * [5]SIL International
- * [6]Open Font Library
- * [7]Software Freedom Law Center
- * [8]Google Font API

Document embedding

One issue highlighted early on in the survey of existing font licences is that of document embedding. Almost all font licences, both free and unfree, permit embedding a font into a document to a certain degree. Embedding a font with other works that make up a document creates a "combined work" and copyleft would normally require the whole document to be distributed under the terms of the font licence. As beautiful as the font might be, such a licence makes a font too restrictive for useful general purpose digital publishing.

The situation is not entirely unique to fonts and is encountered also with tools such as GNU Bison: a vanilla GNU GPL licence would require anything generated with Bison to be made available under the terms of the GPL as well. To avoid this, Bison is [9]published with an additional permission to the GPL which allows the output of Bison to be made available under any licence.

The conflict between licensing of fonts and licensing of documents, is addressed in two popular libre font licences, the SIL OFL and GNU GPL:

- * [10]SIL Open Font Licence: When OFL fonts are embedded in a document, the OFL's terms do not apply to that document. (See [11]OFL-FAQ for details.
- * [12]GPL Font Exception: The situation is resolved by granting an additional permission to allow documents to not be covered by the GPL. (The exception is being reviewed).

The Ubuntu Font Family must also resolve this conflict, ensuring that if the font is embedded and then extracted it is once again clearly under the terms of its libre licence.

Long-term licensing

Those individuals involved, especially from Ubuntu and Canonical, are

interested in finding a long-term libre licence that finds broad favour across the whole libre/open font community. The deliberation during the past months has been on how to licence the Ubuntu Font Family in the short-term, while knowingly encouraging everyone to pursue a long-term goal.

- * [13] Copyright assignment will be required so that the Ubuntu Font Family's licensing can be progressively expanded to one (or more) licences, as best practice continues to evolve within the libre/open font community.
- * Canonical will support and fund legal work on libre font licensing.

It is recognised that the cost and time commitments required are likely to be significant. We invite other capable parties to join in supporting this activity.

The GPL version 3 (GPLv3) will be used for Ubuntu Font Family build scripts and the CC-BY-SA for associated documentation and non-font content: all items which do not end up embedded in general works and documents.

Ubuntu Font Licence

For the short-term only, the initial licence is the [14]Ubuntu Font License (UFL). This is loosely inspired from the work on the SIL OFL 1.1, and seeks to clarify the issues that arose during discussions and legal review, from the perspective of the backers, Canonical Ltd. Those already using established licensing models such as the GPL, OFL or Creative Commons licensing should have no worries about continuing to use them. The Ubuntu Font Licence (UFL) and the SIL Open Font Licence (SIL OFL) are not identical and should not be confused with each other. Please read the terms precisely. The UFL is only intended as an interim license, and the overriding aim is to support the creation of a more suitable and generic libre font licence. As soon as such a licence is developed, the Ubuntu Font Family will migrate to it made possible by copyright assignment in the interim. Between the OFL 1.1, and the UFL 1.0, the following changes are made to produce the Ubuntu Font Licence:

* Clarification:

1. Document embedding (see [15]embedding section above).
2. Apply at point of distribution, instead of receipt
3. Author vs. copyright holder disambiguation (type designers are authors, with the copyright holder normally being the funder)
4. Define "Propagate" (for internationalisation, similar to the GPLv3)
5. Define "Substantially Changed"
6. Trademarks are explicitly not transferred
7. Refine renaming requirement

Streamlining:

8. Remove "not to be sold separately" clause
9. Remove "Reserved Font Name(s)" declaration

A visual demonstration of how these points were implemented can be found in the accompanying coloured diff between SIL OFL 1.1 and the Ubuntu Font Licence 1.0: [16]ofl-1.1-ufl-1.0.diff.html

References

1. <http://font.ubuntu.com/>
 2. <http://www.canonical.com/>
 3. <http://www.daltonmaag.com/>
 4. http://en.wikipedia.org/wiki/Network_effect
 5. <http://scripts.sil.org/>
 6. <http://openfontlibrary.org/>
 7. <http://www.softwarefreedom.org/>
 8. <http://code.google.com/webfonts>
 9. <http://www.gnu.org/licenses/gpl-faq.html#CanIUseGPLToolsForNF>
 10. http://scripts.sil.org/OFL_web
 11. http://scripts.sil.org/OFL-FAQ_web
 12. <http://www.gnu.org/licenses/gpl-faq.html#FontException>
 13. <https://launchpad.net/~uff-contributors>
 14. <http://font.ubuntu.com/ufl/ubuntu-font-licence-1.0.txt>
 15. <http://font.ubuntu.com/ufl/FAQ.html#embedding>
 16. <http://font.ubuntu.com/ufl/ofl-1.1-ufl-1.0.diff.html>
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1.25 bcache-tools 1.0.8-3

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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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1.30 coreutils 8.30-3ubuntu2

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Version 3, 29 June 2007

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include/bsd/stringlist.h

man/fmtcheck.3bsd

man/humanize_number.3bsd

man/stringlist.3bsd

man/timeval.3bsd

src/fmtcheck.c

src/humanize_number.c

src/stringlist.c

src/strtonum.c

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man/getpeereid.3bsd
man/pidfile.3bsd
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src/fparseln.c

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man/readpassphrase.3bsd

man/strncpy.3bsd

man/strtonum.3bsd

src/arc4random.c

src/arc4random_linux.h

src/arc4random_openbsd.h

src/arc4random_uniform.c

src/arc4random_unix.h

src/arc4random_win.h

src/closefrom.c

src/getentropy_aix.c

src/getentropy_bsd.c

src/getentropy_hpux.c

src/getentropy_hurd.c

src/getentropy_linux.c

src/getentropy_osx.c

src/getentropy_solaris.c

src/getentropy_win.c

src/readpassphrase.c

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src/strcat.c

src/strncpy.c

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src/hash/md5.c

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1.35 python-jsonpatch 1.23-3

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1.36 slang 2.3.2-4

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1.38 os-prober 1.74ubuntu2

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/*

* Marko Kiiskila carnil@cs.tut.fi

*

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1.41 libsodium 1.0.18-1

1.41.1 Available under license :

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*/

1.42 kbd 2.0.4-4ubuntu2

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<<?3?0000p<ffff<~0`0<<<fff$lllllll|||0`8ll8vv000`00000000<~<fB~00`8ll88x~|0`|<|l8`|0000|||~x00`0~`00`|||8lf
ff|ffff<ff<lffffflfbhxxh`bffbhxxh``<ff:<<xflxxlff`~~~~bf|fff|`~|fff|lfff|`8|~Z<|l8l|88|lfff<<0`<00000000<p8<<8l0
x|v`xlffff||<lv||620x0000xv|x`lvfff8<ff<`flxxlf8<ffffff|fffff|`v|vf`~|`8|0000006vl8ll888l~0`pppv8lUUUUUUU~
~<<<0`0~<<~<ff<~<ff<|88l0~<~<ff?<ff<vl8v8l0`|8l|8ld`~v||0`||ff<~<<<<<<<<<<f<<fsff<<p8~vv~|`~~~~
`~0`~0ff<<<<ff0X8lDl8~<ff<<~f<<ffffff|`0~`~~~~~v~<|llxx<~0`~00`~000~<<ff8l88lfff|ffff<ff<lffffflfbhxxh`bff
bhxxh``<ff:<<xflxxlff`~~~~bf|fff|`~|fff|lfff|`8|~Z<|l8l|88|lfff<<0`
```

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1.44 sound-theme-freedesktop 0.8-2ubuntu1

1.44.1 Available under license :

alarm-clock-elapsed

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URL: <http://www.freesound.org/samplesViewSingle.php?id=67091>

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audio-channel-front-center

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audio-channel-front-right

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power-plug

power-unplug

network-connectivity-established

network-connectivity-lost

message

dialog-information

dialog-warning

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URL: <http://gnome-look.org/content/show.php/%22Borealis%22+sound+theme?content=12584>

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```

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1.46 gpm 1.20.7-5

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1.47 libfastjson 0.99.8-2

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1.48 time 1.7-25.1build1

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1.50 urllib3 1.25.8

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Contributions to the urllib3 project

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Contributors

In chronological order:

* victor.vde <<http://code.google.com/u/victor.vde/>>

* HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

* NTLM-authenticated HTTPSConnectionPool

* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>

* Client-verified SSL certificates for HTTPSConnectionPool

* Response gzip and deflate encoding support

* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>

* Non-multipart encoding for POST requests

* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>

* Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>

* Bugfixes, suggestions, Requests integration

* georgemarshall <<https://github.com/georgemarshall>>

* Bugfixes, Improvements and Test

coverage

* Thomas Kluyver <thomas@kluyver.me.uk>

* Python 3 support

* brandon-rhodes <<http://rhodesmill.org/brandon>>

* Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>

* IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>

* Support for explicitly closing pooled connections

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

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

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

- * Marc Schlaich <marc.schlaich@gmail.com>
- * Various bugfixes and test improvements.

- * Bryce Boe <bbzbryce@gmail.com>
- * Correct six.moves conflict
- * Fixed pickle support of some exceptions

- * Boris Figovsky <boris.figovsky@ravellosystems.com>
- * Allowed to skip SSL hostname verification

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

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

- * Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- * Fixed a race condition

- * Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- * Added HTTPS (CONNECT) proxy support

- * Stephen Holsapple <sholsapp@gmail.com>
- * Added abstraction for granular control of request fields

- * Martin von Gagern <Martin.vGagern@gmx.net>
- * Support for non-ASCII header parameters

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- * tlynn <https://github.com/tlynn>
- * Respect the warning preferences at import.

- * David D. Riddle <ddriddle@illinois.edu>
- * IPv6 bugfixes in testsuite

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- * Chris Jerdonek <chris.jerdonek@gmail.com>

* Remove a spurious `TypeError` from the exception chain inside `HTTPConnectionPool._make_request()`, also for `BaseExceptions`.

* [Your name or handle] <[email or website]>

* [Brief summary of your changes]

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1.60 rtmpdump 2.4+20151223.gitfa8646d.1-2build1

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```
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```

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```
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1.61 libyamI 0.2.2-1

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1.62 iputils 20190709-3

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1.63 groff 1.22.4-4build1

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<http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z> .

```
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/meintro_fr.me
doc/meref.me
```

Hyphenation Patterns

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

<ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex> .

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

<http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex> .

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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 ``dehypht-x-2017-03-31.pat'` and ``dehyphn-x-2017-03-31.pat'` (for TeX), respectively, which can be found at

<http://ctan.org/tex-archive/language/hyphenation/dehyph-exptl>

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. The file ``tmac/hyphen.cs'` contains the same patterns as the file ``czhyphen.tex'` (for TeX), which can be found in the archive

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1.67 libpcap 1.9.1-3

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1.68 lvm2 2.03.07-1ubuntu1

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1.73 libcanberra 0.30-7ubuntu1

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1.74 newt 0.52.21-4ubuntu2

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1.75 libogg 1.3.4-0ubuntu1

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 From: Silvia Pfeiffer <silviapfeiffer1@gmail.com>

Date: Sun, 14 Aug 2011 15:47:09 +1000

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Subject: Re: Distributing the libogg RFCs in the Debian package

To: Ron <ron@debian.org>

Cc: Christopher Montgomery <monty@xiph.org>,
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1.76 irqbalance 1.6.0-3ubuntu1

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1.77 libassuan 2.5.3-7ubuntu2

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1.82 man-db 2.9.1-1

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1.83 more-itertools 4.2.0-1build1

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1.85 libcbor 0.6.0-0ubuntu1

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1.87 keyutils 1.6-6ubuntu1

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1.88 selinux 3.0-1build2

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1.89 grep 3.4-1

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1.92 vixie-cron 3.0pl1-136ubuntu1

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```

Found in path(s):

```
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c
*
/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.c
```

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.\" */
.\"
.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
.\"
```

Found in path(s):

*

/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.5

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.\" * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

Found in path(s):

*

/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.8

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* This code is derived from software written by Ken Arnold and
```

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 */

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 *
 * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
 * I'll try to keep a version up to date. I can be reached as follows:
 * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
 */
```

\$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp \$

Read the comments at the top of the Makefile, then edit the area marked
 'configurable
 stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the
 top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since
 both the daemon and the `crontab' program will do this the first time they

run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for 'man' and you probably do not. Therefore you may have to put the man pages into /usr/man/man1, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the 'crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another 'crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless '-u USER' is given; '-u' only works for root. When using most 'su' commands under most BSD's, 'crontab' will still think of you as yourself even though you may think of yourself as root -- so use '-u' liberally. (3) the '-r' option stands for 'replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no '&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):

* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/INSTALL

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# * I'll try to keep a version up to date. I can be reached as follows:
# * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
# */
```

Vixie Cron V3.0

December 27, 1993

[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]

[V2.0 was July 5, 1990]

[V2.0-beta

was December 9, 1988]

[V1.0 was May 6, 1987]

Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It

is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files

Edit config.h

Edit Makefile

(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)

'make'

'su' and 'make install'

(you may have to install the man pages by hand)

kill your existing cron process

(actually you can run your existing cron if you want, but why?)

build new crontabs using /usr/lib/{crontab,crontab.local}

(either put them all in "root"'s crontab, or divide it up and rip out all the 'su' commands, collapse the lengthy lists into

ranges with steps -- basically, this step is

as much work as you want to make it)

start up the new cron

(must be done as root)

watch it. test it with 'crontab -r' and watch the daemon track your changes.

if you like it, change your /etc/{rc,rc.local} to use it instead of the old one.

\$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp \$

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* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/README

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.\"

.\" @(#)bitstring.3 5.1

(Berkeley) 12/13/89

.\"

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```
*
* @(#)bitstring.h 5.2
* (Berkeley) 4/4/90
*/
```

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```
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/bitstring.h
```

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* Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
*/
```

Found in path(s):

```
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/pathnames.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/externs.h
```

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.\" *
.\" * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
.\" * I'll try to keep a version up to date. I can be reached as follows:
.\" * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
.\" */
```

```
.\"  
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $  
.\"
```

Found in path(s):

*

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* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/Makefile

1.93 nano 4.8-1ubuntu1

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Version 3, 29 June 2007

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@c ispell-local-pdict: "ispell-dict"  
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1.101 debianutils 4.9.1

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1.105 sed 4.7-1

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The

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1.106 libffi 3.3-4

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<signature of Ty Coon>, 1 April 1989
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The

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section 10

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1.113 cracklib 2.9.6-3.2

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

Thus, it is not the intent of this section to claim rights or contest 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.

^L

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.

^L

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the

user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

^L

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

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

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

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

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

That's all there is to it!

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
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 >=20
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 > 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.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.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.umn.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.umn.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 l91Gxtp020623
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; delp=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

1.114 systemd 245.4-4ubuntu3.2

1.114.1 Available under license :

```
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1.115 strace 5.5-3ubuntu1

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a

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1.120 chrony 3.5-6ubuntu6.2

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1.123 liblwp-protocol-https-perl 6.07- 2ubuntu2

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abstract: 'Provide https support for LWP::UserAgent'

author:

- 'Gisle Aas <gisle@activestate.com>'

build_requires:

Test::More: '0'

Test::RequiresInternet: '0'

configure_requires:

ExtUtils::MakeMaker: '0'

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150005'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: '1.4'

name: LWP-Protocol-https

no_index:

directory:

- t

- inc

requires:

IO::Socket::SSL: '1.54'

LWP::UserAgent: '6.06'

Mozilla::CA: '20110101'

Net::HTTPS: '6'

perl: '5.008001'

resources:

MailingList: <mailto:libwww@perl.org>

repository: <http://github.com/libwww-perl/lwp-protocol-https>

version: '6.07'

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

Found in path(s):

* /liblwp-protocol-https-perl-6-07-orig-1-tar-gz/LWP-Protocol-https-6.07/META.yml

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```
#####  
LWP::Protocol::https 6.06  
#####
```

NAME

LWP::Protocol::https - Provide https support for LWP::UserAgent

SYNOPSIS

use LWP::UserAgent;

```
$ua = LWP::UserAgent->new(ssl_opts => { verify_hostname => 1 });  
$res = $ua->get("https://www.example.com");
```

DESCRIPTION

The LWP::Protocol::https module provides support for using https schemed URLs with LWP. This module is a plug-in to the LWP protocol handling, so you don't use it directly. Once the module is installed LWP is able to access sites using HTTP over SSL/TLS.

If hostname verification is requested by LWP::UserAgent's "ssl_opts", and neither "SSL_ca_file" nor "SSL_ca_path" is set, then "SSL_ca_file" is implied to be the one provided by Mozilla::CA. If the Mozilla::CA module isn't available

SSL requests will fail. Either install this module, set up an alternative "SSL_ca_file" or disable hostname verification.

This module used to be bundled with the libwww-perl, but it was unbundled in v6.02 in order to be able to declare its dependencies properly for the CPAN tool-chain. Applications that need https support can just declare their dependency on LWP::Protocol::https and will no longer need to know what underlying modules to install.

SEE ALSO

IO::Socket::SSL, Crypt::SSLeay, Mozilla::CA

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Found in path(s):

* /liblwp-protocol-https-perl-6-07-orig-1-tar-gz/LWP-Protocol-https-6.07/README

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

=head1 NAME

LWP::Protocol::https - Provide https support for LWP::UserAgent

=head1 SYNOPSIS

```
use LWP::UserAgent;

$ua = LWP::UserAgent->new(ssl_opts => { verify_hostname => 1 });
$res = $ua->get("https://www.example.com");

# specify a CA path
$ua = LWP::UserAgent->new(
    ssl_opts => {
        SSL_ca_path    => '/etc/ssl/certs',
        verify_hostname => 1,
    }
);
```

=head1 DESCRIPTION

The LWP::Protocol::https module provides support for using https schemed URLs with LWP. This module is a plug-in to the LWP protocol handling, so you don't use it directly. Once the module is installed LWP is able to access sites using HTTP over SSL/TLS.

If hostname verification is requested by LWP::UserAgent's C<ssl_opts>, and neither C<SSL_ca_file> nor C<SSL_ca_path> is set, then C<SSL_ca_file> is implied to be the one provided by Mozilla::CA. If the Mozilla::CA module isn't available SSL requests will fail. Either install this module, set up an alternative C<SSL_ca_file> or disable hostname verification.

This module used to be bundled with the libwww-perl, but it was unbundled in v6.02 in order to be able to declare its dependencies properly for the CPAN tool-chain. Applications that need https support can just declare their dependency on LWP::Protocol::https and will no longer need to know what underlying modules to install.

=head1 SEE ALSO

L<IO::Socket::SSL>, L<Crypt::SSLeay>, L<Mozilla::CA>

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Found in path(s):

* /liblwp-protocol-https-perl-6-07-orig-1-tar-gz/LWP-Protocol-https-6.07/lib/LWP/Protocol/https.pm

1.124 libmailtools-perl 2.21-1

1.124.1 Available under license :

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=encoding utf8

=head1 NAME

MailTools - bundle of ancient email modules

=head1 SYNOPSIS

This is a place-holder for the distribution

=head1 DESCRIPTION

MailTools is a bundle: an ancient form of combining packages into one distribution. Gladly, it can be distributed as if it is a normal distribution as well.

B<Be warned:> The code you find here is very old. It works for simple emails, but when you start with new code then please use more sophisticated libraries. The main reason that you still find this code on CPAN, is because many books use it as example.

=head2 Component

In this distribution, you find

=over 4

=item Mail::Address

Parse email address from a header line.

=item Mail::Cap

Interpret mailcap files: mappings of file-types to applications as used by many command-line email programs.

=item Mail::Field

Simplifies access to (some) email header fields. Used by L<Mail::Header|Mail::Header>.

=item

Mail::Filter

Process L<Mail::Internet|Mail::Internet> messages.

=item Mail::Header

Collection of L<Mail::Field|Mail::Field> objects, representing the header of a L<Mail::Internet|Mail::Internet> object.

=item Mail::Internet

Represents a single email message, with header and body.

=item Mail::Mailer

Send L<Mail::Internet|Mail::Internet> emails via direct smtp or local MTA's.

=item Mail::Send

Build a L<Mail::Internet|Mail::Internet> object, and then send it out using L<Mail::Mailer|Mail::Mailer>.

=item Mail::Util

"Smart functions" you should not depend on.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.

Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.

Mail::Mailer and Mail::Send by Tim Bunce

E<lt>Tim.Bunce@ig.co.ukE<gt>.

For other contributors see ChangeLog.

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See F<<http://www.perl.com/perl/misc/Artistic.html>>

Found in path(s):

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/MailTools.pod

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

=encoding utf8

=head1 NAME

Mail::Field::AddrList - object representation of e-mail address lists

=head1 INHERITANCE

Mail::Field::AddrList

is a Mail::Field

=head1 SYNOPSIS

```
use Mail::Field::AddrList;
```

```
$to = Mail::Field->new('To');
```

```
$from = Mail::Field->new('From', 'poe@daimi.aau.dk (Peter Orbaek)');
```

```
$from->create('foo@bar.com' => 'Mr. Foo', poe => 'Peter');
```

```
$from->parse('foo@bar.com (Mr Foo), Peter Orbaek <poe>');
```

```
# make a RFC822 header string
```

```
print $from->stringify(),"\n";
```

```
# extract e-mail addresses and names
```

```
@addresses = $from->addresses(); # strings
```

```
@names = $from->names(); # strings
```

```
@addr = $from->addr_list(); # Mail::Address objects (v2.00)
```

```
# adjoin a new address to the list
```

```
$from->set_address('foo@bar.com', 'Mr. Foo');
```

=head1 DESCRIPTION

Defines parsing and formatting of address field, for the following

fields: C<To>, C<From>, C<Cc>, C<Reply-To>, and C<Sender>.

All

the normally used features of the address field specification of RFC2822 are implemented, but some complex (and therefore hardly ever used) constructs will not be understood. Use Mail::Message::Field::Full in MailBox if you need full RFC compliance.

Extends L<"DESCRIPTION" in Mail::Field|Mail::Field/"DESCRIPTION">.

=head1 METHODS

Extends L<"METHODS" in Mail::Field|Mail::Field/"METHODS">.

=head2 Constructors

Extends L<"Constructors" in Mail::Field|Mail::Field/"Constructors">.

=over 4

=item Mail::Field::AddrList-E<gt>B<combine>(\$fields)

Inherited, see L<Mail::Field/"Constructors">

=item Mail::Field::AddrList-E<gt>B<extract>(\$tag, \$head [, \$index])

Inherited, see L<Mail::Field/"Constructors">

=item Mail::Field::AddrList-E<gt>B<new>(\$tag [, STRING | %options])

Inherited, see L<Mail::Field/"Constructors">

=back

=head2 "Fake" constructors

Extends L<""Fake" constructors" in Mail::Field|Mail::Field/""Fake" constructors">.

=over 4

=item \$obj-E<gt>B<create>(%options)

Inherited,
see L<Mail::Field/""Fake" constructors">

=item \$obj-E<gt>B<parse>()

Inherited, see L<Mail::Field/""Fake" constructors">

=back

=head2 Accessors

Extends L<"Accessors" in Mail::Field|Mail::Field/"Accessors">.

=over 4

=item \$obj-E<gt>B<set>(%options)

Inherited, see L<Mail::Field/"Accessors">

=item \$obj-E<gt>B<stringify>()

Inherited, see L<Mail::Field/"Accessors">

=item \$obj-E<gt>B<tag>()

=item Mail::Field::AddrList-E<gt>B<tag>()

Inherited, see L<Mail::Field/"Accessors">

=back

=head2 Smart accessors

Extends L<"Smart accessors" in Mail::Field|Mail::Field/"Smart accessors">.

=over 4

=item \$obj-E<gt>B<addr_list>()

Returns the collected L<Mail::Address|Mail::Address> objects.

=item \$obj-E<gt>B<addresses>()

Returns a list of email addresses, found in the field content.

=item \$obj-E<gt>B<names>()

Returns a list of nicely formatted names, for each of the addresses found in the content.

=item \$obj-E<gt>B<set_address>(\$email, \$name)

Add/replace an \$email

address to the field.

=item \$obj-E<gt>B<text>([STRING])

Inherited, see L<Mail::Field/"Smart accessors">

=back

=head1 DETAILS

Extends L<"DETAILS" in Mail::Field|Mail::Field/"DETAILS">.

=head1 DIAGNOSTICS

=over 4

=item Error: Undefined subroutine <method> called

Mail::Field objects use autoloading to compile new functionality. Apparently, the method called is not implemented for the specific class of the field object.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.

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Found in path(s):

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Field/AddrList.pod

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

=encoding utf8

=head1 NAME

Mail::Field::Generic - implementation for inspecific fields

=head1 INHERITANCE

Mail::Field::Generic

is a Mail::Field

=head1 SYNOPSIS

use Mail::Field;

my \$field = Mail::Field->new('Subject', 'some subject text');

my \$field = Mail::Field->new(subject => 'some subject text');

=head1 DESCRIPTION

A generic implementation for header fields without own implementation. This is fine for fields like C<Subject>, C<X-Mailer>, etc., where the field holds only a string of no particular importance/format.

Extends L<"DESCRIPTION" in Mail::Field|Mail::Field/"DESCRIPTION">.

=head1 METHODS

Extends L<"METHODS" in Mail::Field|Mail::Field/"METHODS">.

=head2 Constructors

Extends L<"Constructors" in Mail::Field|Mail::Field/"Constructors">.

=over 4

=item Mail::Field::Generic-E<gt>B<combine>(\$fields)

Inherited, see L<Mail::Field/"Constructors">

=item Mail::Field::Generic-E<gt>B<extract>(\$tag,
\$head [, \$index])

Inherited, see L<Mail::Field/"Constructors">

=item Mail::Field::Generic-E<gt>B<new>(\$tag [, STRING | %options])

Inherited, see L<Mail::Field/"Constructors">

=back

=head2 "Fake" constructors

Extends L<""Fake" constructors" in Mail::Field|Mail::Field/""Fake" constructors">.

=over 4

=item \$obj-E<gt>B<create>(%options)

-Option--Default

Text "

=over 2

=item Text => STRING

=back

=item \$obj-E<gt>B<parse>([STRING])

Set the new text, which is empty when no STRING is provided.

=back

=head2 Accessors

Extends L<"Accessors" in Mail::Field|Mail::Field/"Accessors">.

=over 4

=item \$obj-E<gt>B<set>(%options)

Inherited, see L<Mail::Field/"Accessors">

=item \$obj-E<gt>B<stringify>()

Inherited, see L<Mail::Field/"Accessors">

=item \$obj-E<gt>B<tag>()

=item Mail::Field::Generic-E<gt>B<tag>()

Inherited, see L<Mail::Field/"Accessors">

=back

=head2 Smart accessors

Extends L<"Smart accessors" in Mail::Field|Mail::Field/"Smart accessors">.

=over

4

=item \$obj-E<gt>B<text>([STRING])

Inherited, see L<Mail::Field/"Smart accessors">

=back

=head1 DETAILS

Extends L<"DETAILS" in Mail::Field|Mail::Field/"DETAILS">.

=head1 DIAGNOSTICS

=over 4

=item Error: Undefined subroutine <method> called

Mail::Field objects use autoloading to compile new functionality. Apparently, the method called is not implemented for the specific class of the field object.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

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MailTools

- * My extended documentation: <<http://perl.overmeer.net/CPAN/>>
- * Development via GitHub: <<https://github.com/markov2/perl5-MailTools>>
- * Download from CPAN: <<ftp://ftp.cpan.org/pub/CPAN/authors/id/M/MA/MARKOV/>>
- * Indexed from CPAN: <<http://search.cpan.org/~markov/MailTools/>>
and <<https://metacpan.org/release/MailTools>>

MailTools is one of the oldest modules on CPAN. It started off in 1995,
the year Perl 5.0 got released! That's just in the beginning of the
MIME standards.

Email has become more complex over the years. The components of
MailTools only understand very basic emails and fairly simple mime
headers. Fixing some things will break existing applications.

The only reason for still maintaining it, is because it is used as example
in many books and therefore applications still use it. Not because it
is good. Sometimes it is good enough, though.

Later, this module got extended by the
MIME::Entity modules to support
multipart and more smartness. But even those modules are quite limited,
considering modern emails.

****Please note:**** When you start all over, please consider Mail::Box!

For a feature overview, take a look at the

[MailBox overview](http://perl.overmeer.net/mailbox/html/Mail_Box-Overview/)

and

[MailBox features](http://perl.overmeer.net/mailbox/html/Mail_Box-Index/)

pages.

Development & Release

Important to know, is that I use an extension on POD to write the manuals. The "raw" unprocessed version is visible on GitHub. It will run without problems, but does not contain manual-pages.

Releases to CPAN are different: "raw" documentation gets removed from the code and translated into real POD and clean HTML. This reformatting is implemented with the OODoc distribution (A name I chose before OpenOffice existed, sorry for the confusion)

Clone from github for the "raw" version. For instance, when you want to contribute a new feature.

On github,
you can find the processed version for each release. But the better source is CPAN; to get it installed simply run:

```
```sh
 cpan -i MailTools
```
```

Contributing

When you want to contribute to this module, you do not need to provide a perfect patch... actually: it is nearly impossible to create a patch which I will merge without modification. Usually, I need to adapt the style of code and documentation to my own strict rules.

When you submit an extension, please contribute a set with

1. code
2. code documentation
3. regression tests in t/

****Please note:****

When you contribute in any way, you agree to transfer the copyrights to Mark Overmeer (you will get the honors in the code and/or ChangeLog). You also automatically agree that your contribution is released under the same license as this project: licensed as perl itself.

Copyright and License

Graham Barr wrote most of these components, since 2001 maintained by Mark Overmeer. Copyright is with these authors.

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Found in path(s):

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/README.md

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

=encoding utf8

=head1 NAME

Mail::Address - parse mail addresses

=head1 SYNOPSIS

```
use Mail::Address;
my @addrs = Mail::Address->parse($line);
```

```
foreach $addr (@addrs) {
    print $addr->format,"\n";
}
```

=head1 DESCRIPTION

C<Mail::Address> extracts and manipulates email addresses from a message header. It cannot be used to extract addresses from some random text. You can use this module to create RFC822 compliant fields.

Although C<Mail::Address> is a very popular subject for books, and is used in many applications, it does a very poor job on the more complex message fields. It does only handle simple address formats (which covers about 95% of what can be found). Problems are with

=over 4

=item *

no support for address groups, even not with the semi-colon as separator between addresses;

=item *

limited support for escapes in phrases and comments. There are cases where it can get wrong; and

=item *

you

have to take care of most escaping when you create an address yourself:

C<Mail::Address> does not do that for you.

=back

Often requests are made to the maintainers of this code improve this situation, but this is not a good idea, where it will break zillions of existing applications. If you wish for a fully RFC2822 compliant implementation you may take a look at L<Mail::Message::Field::Full>, part of MailBox.

B<. Example>

```
my $s = Mail::Message::Field::Full->new($from_header);
# ref $s isa Mail::Message::Field::Addresses;
```

```
my @g = $s->groups;      # all groups, at least one
# ref $g[0] isa Mail::Message::Field::AddrGroup;
my $ga = $g[0]->addresses; # group addresses
```

```
my @a = $s->addresses;    # all addresses
# ref $a[0] isa Mail::Message::Field::Address;
```

=head1 METHODS

=head2 Constructors

=over 4

=item Mail::Address-E<gt>B<new>(\$phrase, \$address, [\$comment])

Create a new C<Mail::Address> object which represents an address with the elements given. In

a message these 3 elements would be seen like:

PHRASE <ADDRESS> (COMMENT)

ADDRESS (COMMENT)

example:

```
Mail::Address->new("Perl5 Porters", "perl5-porters@africa.nicoh.com");
```

=item \$obj-E<gt>B<parse>(\$line)

Parse the given line a return a list of extracted C<Mail::Address> objects.

The line would normally be one taken from a To,Cc or Bcc line in a message

example:

```
my @addr = Mail::Address->parse($line);
```

```
=back
```

```
=head2 Accessors
```

```
=over 4
```

```
=item $obj-E<gt>B<address>()
```

Return the address part of the object.

```
=item $obj-E<gt>B<comment>()
```

Return the comment part of the object

```
=item $obj-E<gt>B<format>(@addresses)
```

Return a string representing the address in a suitable form to be placed on a C<To>, C<Cc>, or C<Bcc> line of a message. This method is called on the first address to be used; other specified addresses will be appended, separated by commas.

```
=item $obj-E<gt>B<phrase>()
```

Return the phrase part of the object.

```
=back
```

```
=head2 Smart accessors
```

```
=over 4
```

```
=item $obj-E<gt>B<host>()
```

Return

the address excluding the user id and '@'

```
=item $obj-E<gt>B<name>()
```

Using the information contained within the object attempt to identify what the person or groups name is.

B<Note:> This function tries to be smart with the "phrase" of the email address, which is probably a very bad idea. Consider to use L<phrase()|Mail::Address/"Accessors"> itself.

=item \$obj-E<gt>B<user>()

Return the address excluding the '@' and the mail domain

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.

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=encoding utf8

=head1 NAME

Mail::Field - base-class for manipulation of mail header fields

=head1 INHERITANCE

Mail::Field is extended by

Mail::Field::AddrList

Mail::Field::Date

Mail::Field::Generic

=head1 SYNOPSIS

use Mail::Field;

```
my $field = Mail::Field->new('Subject', 'some subject text');
my $field = Mail::Field->new(Subject => 'some subject text');
print $field->tag, ":", $field->stringify, "\n";
```

```
my $field = Mail::Field->subject('some subject text');
```

=head1 DESCRIPTION

C<Mail::Field> creates and manipulates fields in MIME headers, collected within a L<Mail::Header|Mail::Header> object. Different field types have their own sub-class (extension), defining additional useful accessors to the field content.

People are invited to merge their implementation to special fields into MailTools, to maintain a consistent set of packages and documentation.

=head1 METHODS

=head2 Constructors

Mail::Field

(and its sub-classes) define several methods which return new objects. These can all be categorized as constructor.

=over 4

=item Mail::Field-E<gt>B<combine>(\$fields)

Take a LIST of C<Mail::Field> objects (which should all be of the same sub-class) and create a new object in that same class.

=item Mail::Field-E<gt>B<extract>(\$tag, \$head [, \$index])

Takes as arguments the tag name, a C<Mail::Header> object and optionally an index.

If the index argument is given then C<extract> will retrieve the given tag from the C<Mail::Header> object and create a new C<Mail::Field> based object. I<undef> will be returned if the field does not exist.

If the index argument is not given the result depends on the context in which C<extract> is called. If called in a scalar context the result will be as if C<extract> was called with an index value of zero. If called

in an array context then all tags will be retrieved and a list of C<Mail::Field> objects will be returned.

```
=item Mail::Field-E<gt>B<new>(  
$tag [, STRING | %options] )
```

Create an object in the class which defines the field specified by the \$tag argument.

=back

=head2 "Fake" constructors

=over 4

```
=item $obj-E<gt>B<create>(%options)
```

This constructor is used internally with preprocessed field information. When called on an existing object, its original content will get replaced.

```
=item $obj-E<gt>B<parse>()
```

Parse a field line.

=back

=head2 Accessors

=over 4

```
=item $obj-E<gt>B<set>(%options)
```

Change the settings (the content, but then smart) of this field.

```
=item $obj-E<gt>B<stringify>()
```

Returns the field as a string.

```
=item $obj-E<gt>B<tag>()
```

```
=item Mail::Field-E<gt>B<tag>()
```

Return the tag (in the correct case) for this item. Well, actually any casing is OK, because the field tags are treated case-insensitive; however people have some preferences.

=back

=head2 Smart accessors

=over 4

=item \$obj-E<gt>B<text>([STRING])

Without arguments, the field is returned as L<stringify()|Mail::Field/"Accessors"> does. Otherwise, the STRING is parsed with L<parse()|Mail::Field/"Fake" constructors"> to replace the object's content.

It is more clear to call either L<stringify()|Mail::Field/"Accessors"> or L<parse()|Mail::Field/"Fake" constructors"> directly, because this method does not add additional processing.

=back

=head1 DETAILS

=head2 SUB-CLASS PACKAGE NAMES

All sub-classes should be called Mail::Field::I<name> where I<name> is derived from the tag using these rules.

=over 4

=item *

Consider a tag as being made up of elements separated by '-'

=item *

Convert all characters to lowercase except the first in each element, which should be uppercase.

=item *

I<name> is then created from these elements by using the first N characters from each element.

=item *

N is calculated by using the formula :-

$$\text{int}((7 + \text{\#elements}) / \text{\#elements})$$

=item *

I<name> is then limited to a maximum of 8 characters, keeping the first 8 characters.

=back

For an example of this take a look at
the definition of the
C<_header_pkg_name()> subroutine in C<Mail::Field>

=head1 DIAGNOSTICS

=over 4

=item Error: Undefined subroutine <method> called

Mail::Field objects use autoloading to compile new functionality.
Apparently, the method called is not implemented for the specific
class of the field object.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

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Overmeer took over maintenance without commitment to further development.

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Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.
Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.
For other contributors see ChangeLog.

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See F<<http://www.perl.com/perl/misc/Artistic.html>>

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=encoding utf8

=head1 NAME

Mail::Internet - manipulate email messages

=head1 SYNOPSIS

```
use Mail::Internet;
my $msg = Mail::Internet->new(*STDIN);
```

=head1 DESCRIPTION

This package implements reading, creating, manipulating, and writing email messages. Sometimes, the implementation tries to be too smart, but in the general case it works as expected.

If you start writing a B<new application>, you should use the L<Mail::Box> distribution, which has more features and handles messages much better according to the RFCs. See L<<http://perl.overmeer.net/mailbox/>>. You may also chose L<MIME::Entity>, to get at least some multipart support in your application.

=head1 METHODS

=head2 Constructors

=over 4

=item \$obj-E<gt>B<dup>()

Duplicate the message as a whole. Both header and body will be deep-copied: a new L<Mail::Internet|Mail::Internet> object is returned.

=item \$obj-E<gt>B<extract>(\@lines)

Extract header

and body from an ARRAY of message lines. Requires an object already created with L<new()|Mail::Internet/"Constructors">, which contents will get overwritten.

=item \$obj-E<gt>B<new>([\$arg], [%options])

=item Mail::Internet-E<gt>B<new>([\$arg], [%options])

\$arg is optional and may be either a file descriptor (reference to a GLOB) or a reference to an array. If given the new object will be

initialized with headers and body either from the array of read from the file descriptor.

The L<Mail::Header::new()|Mail::Header/"Constructors"> %options C<Modify>, C<MailFrom> and C<FoldLength> may also be given.

-Option--Default
Body []
Header undef

=over 2

=item Body => ARRAY-of-LINES

The value of this option should be a reference to an array which contains the lines for the body of the message. Each line should be terminated with C<\n> (LF). If Body is given then C<Mail::Internet> will not attempt to read the body from C<\$arg> (even if it is specified).

=item Header => Mail::Header

The value of this option should be a L<Mail::Header|Mail::Header> object. If given then C<Mail::Internet> will not attempt to read a mail header from C<\$arg>, if it was specified.

=back

=item \$obj-E<gt>B<read>(\$fh)

Read a message from the \$fh into an already existing message object. Better use L<new()|Mail::Internet/"Constructors"> with the \$fh as first argument.

=back

=head2 Accessors

=over 4

=item \$obj-E<gt>B<body>([\$body])

Returns the body of the message. This is a reference to an array. Each entry in the array represents a single line in the message.

If I<\$body> is given, it can be a reference to an array or an array, then the body will be replaced. If a reference is passed, it is used directly and not copied, so any subsequent changes to the array will change the

contents of the body.

```
=item $obj-E<gt>B<head>()
```

Returns the C<Mail::Header> object which holds the headers for the current message

```
=back
```

```
=head2 Processing the message as a whole
```

```
=over 4
```

```
=item $obj-E<gt>B<as_mbox_string>(  
  [$already_escaped] )
```

Returns the message as a string in mbox format. C<\$already_escaped>, if given and true, indicates that L<escape_from()|Mail::Internet/"High-level functionality"> has already been called on this object.

```
=item $obj-E<gt>B<as_string>()
```

Returns the message as a single string.

```
=item $obj-E<gt>B<print>( [$fh] )
```

Print the header, body or whole message to file descriptor I<\$fh>. I<\$fd> should be a reference to a GLOB. If I<\$fh> is not given the output will be sent to STDOUT.

example:

```
$mail->print( \*STDOUT ); # Print message to STDOUT
```

```
=item $obj-E<gt>B<print_body>( [$fh] )
```

Print only the body to the \$fh (default STDOUT).

```
=item $obj-E<gt>B<print_header>( [$fh] )
```

Print only the header to the \$fh (default STDOUT).

```
=back
```

```
=head2 Processing the header
```

Most of these methods are simply wrappers around methods provided by L<Mail::Header|Mail::Header>.

=over 4

=item \$obj-E<gt>B<add>(PAIRS)

The PAIRS are field-name and field-content.

For each PAIR,

L<Mail::Header::add()|Mail::Header/"Processing"> is called. All fields are added after existing fields. The last addition is returned.

=item \$obj-E<gt>B<combine>(\$tag, [\$with])

See L<Mail::Header::combine()|Mail::Header/"Processing">.

=item \$obj-E<gt>B<delete>(\$tag, [\$tags])

Delete all fields with the name \$tag. L<Mail::Header::delete()|Mail::Header/"Processing"> is doing the work.

=item \$obj-E<gt>B<fold>([\$length])

See L<Mail::Header::fold()|Mail::Header/"Processing">.

=item \$obj-E<gt>B<fold_length>([\$tag], [\$length])

See L<Mail::Header::fold_length()|Mail::Header/"Accessors">.

=item \$obj-E<gt>B<get>(\$tag, [\$tags])

In LIST context, all fields with the name \$tag are returned. In SCALAR context, only the first field which matches the earliest \$tag is returned.

L<Mail::Header::get()|Mail::Header/"Processing"> is called to collect the data.

=item \$obj-E<gt>B<header>(\@lines)

See L<Mail::Header::header()|Mail::Header/"Fake" constructors">.

=item

\$obj-E<gt>B<replace>(PAIRS)

The PAIRS are field-name and field-content. For each PAIR,

L<Mail::Header::replace()|Mail::Header/"Processing"> is called with index 0. If a \$field is already in the header, it will be removed first. Do not specified the same field-name twice.

=back

=head2 Processing the body

=over 4

=item \$obj-E<gt>B<remove_sig>([\$nlines])

Attempts to remove a user's signature from the body of a message. It does this by looking for a line equal to C<'-- '> within the last C<\$nlines> of the message. If found then that line and all lines after it will be removed. If C<\$nlines> is not given a default value of 10 will be used. This would be of most use in auto-reply scripts.

=item \$obj-E<gt>B<sign>(%options)

Add your signature to the body. L<remove_sig()|Mail::Internet/"Processing the body"> will strip existing signatures first.

-Option --Default
File undef
Signature []

=over 2

=item File => FILEHANDLE

Take from the FILEHANDLE all lines starting from the first C<< -- >>.

=item Signature => STRING|ARRAY-of-LINES

=back

=item \$obj-E<gt>B<tidy_body>()

Removes all leading and trailing lines from the body that only contain white spaces.

=back

=head2 High-level functionality

=over 4

=item \$obj-E<gt>B<escape_from>()

It can cause problems with some applications if a message contains a line starting with C<'From '>, in particular when attempting to split a folder. This method inserts a leading C<'>'> on any line that matches the regular expression C</^>*From/>

=item \$obj-E<gt>B<nntp>([%options])

Post an article via NNTP. Requires Net::NNTP to be installed.

-Option--Default

Debug <false>

Host <required>

Port 119

=over 2

=item Debug => BOOLEAN

Debug value to pass to Net::NNTP, see L<Net::NNTP>

=item Host => HOSTNAME|Net::NNTP object

Name of NNTP server to connect to, or a Net::NNTP object to use.

=item Port => INTEGER

Port number to connect to on remote host

=back

=item \$obj-E<gt>B<reply>(%options)

Create

a new object with header initialised for a reply to the current object. And the body will be a copy of the current message indented.

The C<.mailhdr> file in your home directory (if exists) will be read first, to provide defaults.

-Option --Default

Exclude []

Indent '>'

Keep []

ReplyAll false

=over 2

=item Exclude => ARRAY-of-FIELDS

Remove the listed FIELDS from the produced message.

=item Indent => STRING

Use as indentation string. The string may contain C<%%> to get a single C<%>, C<%f> to get the first from name, C<%F> is the first character of C<%f>, C<%l> is the last name, C<%L> its first character, C<%n> the whole from string, and C<%I> the first character of each of the names in the from string.

=item Keep => ARRAY-of-FIELDS

Copy the listed FIELDS from the original message.

=item ReplyAll => BOOLEAN

Automatically include all To and Cc addresses of the original mail, excluding those mentioned in the Bcc list.

=back

=item \$obj-E<gt>B<send>(
[\$type, [\$args...]])

Send a Mail::Internet message using L<Mail::Mailer|Mail::Mailer>. \$type and \$args are passed on to L<Mail::Mailer::new()|Mail::Mailer/"Constructors">.

=item \$obj-E<gt>B<smtpsend>([%options])

Send a Mail::Internet message using direct SMTP to the given ADDRESSES, each can be either a string or a reference to a list of email addresses. If none of C<To>, <Cc> or C<Bcc> are given then the addresses are extracted from the message being sent.

The return value will be a list of email addresses that the message was sent to. If the message was not sent the list will be empty.

Requires Net::SMTP and Net::Domain to be installed.

-Option --Default
Bcc undef
Cc undef
Debug <false>
Hello localhost.localdomain
Host \$ENV{SMTPHOSTS}
MailFrom Mail::Util::mailaddress()
Port 25
To undef

=over 2

=item Bcc => ADDRESSES

=item Cc => ADDRESSES

=item Debug => BOOLEAN

Debug value to pass to Net::SMTP, see <Net::SMTP>

=item

Hello => STRING

Send a HELO (or EHLO) command to the server with the given name.

=item Host => HOSTNAME

Name of the SMTP server to connect to, or a Net::SMTP object to use

If C<Host> is not given then the SMTP host is found by attempting connections first to hosts specified in C<\$ENV{SMTPHOSTS}>, a colon separated list, then C<mailhost> and C<localhost>.

=item MailFrom => ADDRESS

The e-mail address which is used as sender. By default, L<Mail::Util::mailaddress()|Mail::Util/"FUNCTIONS"> provides the address of the sender.

=item Port => INTEGER

Port number to connect to on remote host

=item To => ADDRESSES

=back

=item \$obj-E<gt>B<unescape_from>()

Remove the escaping added by L<escape_from()|Mail::Internet/"High-level functionality">.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without

commitment to further development.

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Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.

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=encoding utf8

=head1 NAME

Mail::Send - Simple electronic mail interface

=head1 SYNOPSIS

```
require Mail::Send;
```

```
$msg = Mail::Send->new;
```

```
$msg = Mail::Send->new(Subject => 'example', To => 'timbo');
```

```
$msg->to('user@host');
```

```
$msg->to('user@host', 'user2@example.com');
```

```
$msg->subject('example subject');
```

```
$msg->cc('user@host');
```

```
$msg->bcc('someone@else');
```

```
$msg->set($header, @values);
```

```
$msg->add($header, @values);
```

```
$msg->delete($header);
```

```
# Launch mailer and set headers. The filehandle returned
```

```
# by open() is an instance of the Mail::Mailer class.
```

```
# Arguments to the open() method are passed to the Mail::Mailer
```

```
# constructor.
```

```
$fh = $msg->open; # some default mailer
$fh = $msg->open('sendmail'); # explicit
print $fh "Body of message";
$fh->close      # complete the message and send it
               or die "couldn't send whole message: $!\n";
```

=head1 DESCRIPTION

L<Mail::Send|Mail::Send> creates e-mail messages without using the L<Mail::Header|Mail::Header> knowledge, which means that all escaping and folding must be done by you! Also: do not forget to escape leading dots. Simplicity has its price.

When you have time, take a look at Mail::Transport which is part of the MailBox suite.

=head1 METHODS

=head2 Constructors

=over 4

=item Mail::Send-E<gt>B<new>(PAIRS)

A list of header fields (provided as key-value PAIRS) can be used to initialize the object, limited to the few provided as method: C<to>, C<subject>, C<cc>, and C<bcc>. For other header fields, use L<add()|Mail::Send/"Header fields">.

=back

=head2 Header fields

=over 4

=item \$obj-E<gt>B<add>(\$fieldname, @values)

Add values to the list of defined values for the \$fieldname.

=item \$obj-E<gt>B<bcc>(@values)

=item \$obj-E<gt>B<cc>(@values)

=item \$obj-E<gt>B<delete>(\$fieldname)

=item \$obj-E<gt>B<set>(\$fieldname, @values)

The @values will replace the old values for the \$fieldname. Returned is the LIST of

values after modification.

=item \$obj-E<gt>B<subject>(@values)

=item \$obj-E<gt>B<to>(@values)

=back

=head2 Sending

=over 4

=item \$obj-E<gt>B<open>(%options)

The %options are used to initiate a mailer object via

L<Mail::Mailer::new()|Mail::Mailer/"Constructors">. Then L<Mail::Mailer::open()|Mail::Mailer/"Constructors"> is called

with the knowledge collected in this C<Mail::Send> object.

Be warned: this module implements raw smtp, which means that you have to escape lines which start with a dot, by adding one in front.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

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=encoding utf8

=head1 NAME

Mail::Field::Date - a date header field

=head1 INHERITANCE

Mail::Field::Date

is a Mail::Field

=head1 SYNOPSIS

```
use HTTP::Date 'time2iso';
```

```
my $field = Mail::Field->new(Date => time2iso());
```

=head1 DESCRIPTION

Represents one "Date" header field.

Extends L<"DESCRIPTION" in Mail::Field|Mail::Field/"DESCRIPTION">.

=head1 METHODS

Extends L<"METHODS" in Mail::Field|Mail::Field/"METHODS">.

=head2 Constructors

Extends L<"Constructors" in Mail::Field|Mail::Field/"Constructors">.

=over 4

=item Mail::Field::Date-E<gt>B<combine>(\$fields)

Inherited, see L<Mail::Field/"Constructors">

=item Mail::Field::Date-E<gt>B<extract>(\$tag, \$head [, \$index])

Inherited, see L<Mail::Field/"Constructors">

=item Mail::Field::Date-E<gt>B<new>(\$tag [, STRING | %options])

Inherited, see L<Mail::Field/"Constructors">

=back

=head2 "Fake" constructors

Extends L<""Fake" constructors" in Mail::Field|Mail::Field/""Fake" constructors">.

=over 4

=item \$obj-E<gt>B<create>(%options)

Inherited, see L<Mail::Field/""Fake" constructors">

=item \$obj-E<gt>B<parse>()

Inherited, see L<Mail::Field/""Fake" constructors">

=back

=head2 Accessors

Extends L<"Accessors" in Mail::Field|Mail::Field/"Accessors">.

=over 4

=item \$obj-E<gt>B<set>(%options)

-Option --Default

Time undef

TimeStr undef

=over 2

=item Time => SECONDS

=item TimeStr => STRING

A string acceptable to Date::Parse.

=back

=item \$obj-E<gt>B<stringify>()

Inherited, see L<Mail::Field/"Accessors">

=item \$obj-E<gt>B<tag>()

=item Mail::Field::Date-E<gt>B<tag>()

Inherited, see L<Mail::Field/"Accessors">

=back

=head2 Smart accessors

Extends L<"Smart accessors" in Mail::Field|Mail::Field/"Smart accessors">.

=over 4

=item \$obj-E<gt>B<text>([STRING])

Inherited, see L<Mail::Field/"Smart accessors">

=item \$obj-E<gt>B<time>([\$time])

Query (or change) the \$time (as stored in the field) in seconds.

=back

=head1

DETAILS

Extends L<"DETAILS" in Mail::Field|Mail::Field/"DETAILS">.

=head1 DIAGNOSTICS

=over 4

=item Error: Undefined subroutine <method> called

Mail::Field objects use autoloading to compile new functionality. Apparently, the method called is not implemented for the specific class of the field object.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

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=encoding utf8

=head1 NAME

Mail::Mailer - send simple emails

=head1 INHERITANCE

Mail::Mailer
is an IO::Handle

=head1 SYNOPSIS

```
use Mail::Mailer;  
use Mail::Mailer qw(mail); # specifies default mailer
```

```
$mailer = Mail::Mailer->new;  
$mailer = Mail::Mailer->new($type, @args);
```

```
$mailer->open(\%headers);  
print $mailer $body;  
$mailer->close  
    or die "couldn't send whole message: $!\n";
```

=head1 DESCRIPTION

Sends mail using any of the built-in methods. As TYPE argument
to L<new()|Mail::Mailer/"Constructors">, you can specify any of

=over 4

=item C<sendmail>

Use the C<sendmail> program to deliver the mail.

=item C<smtp>

Use the C<smtp> protocol via Net::SMTP to deliver the mail. The server to use can be specified in C<@args> with

```
$mailer = Mail::Mailer->new('smtp', Server => $server);
```

The smtp mailer does not handle C<Cc> and C<Bcc> lines, neither their C<Resent-*> fellows. The C<Debug> options enables debugging output from C<Net::SMTP>.

[added 2.21] You may also use the C<< StartTLS => 1 >> options to upgrade the connection with STARTTLS. You need C<libnet> version 1.28 (2014) for this to work.

You may also use the C<< Auth => [\$user, \$password] >> option for SASL authentication. To make this work, you have to install the L<Authen::SASL> distribution yourself: it is not automatically installed.

=item C<smtps>

This option is B<deprecated> when you have C<libnet> 1.28 (2014) and above.

Use the smtp over ssl protocol via L<Net::SMTP::SSL> to deliver the mail. Usage is identical to C<smtp>. You have to install Authen::SASL as well.

```
$mailer = Mail::Mailer->new('smtps', Server => $server);
```

=item C<qmail>

Use qmail's qmail-inject program to deliver the mail.

=item C<testfile>

Used for debugging, this displays the data to the file named in C<\$Mail::Mailer::testfile::config{outfile}> which defaults to a file named C<mailer.testfile>. No mail is ever sent.

=back

C<Mail::Mailer>

will search for executables in the above order. The default mailer will be the first one found.

=head1 METHODS

=head2 Constructors

=over 4

=item Mail::Mailer-E<gt>B<new>(\$type, %options)

The \$type is one of the back-end sender implementations, as described in the DESCRIPTION chapter of this manual page. The %options are passed to that back-end.

=item \$obj-E<gt>B<open>(HASH)

The HASH consists of key and value pairs, the key being the name of the header field (eg, C<To>), and the value being the corresponding contents of the header field. The value can either be a scalar (eg, C<gnat@frii.com>) or a reference to an array of scalars (C<< eg, ['gnat@frii.com', 'Tim.Bunce@ig.co.uk'] >>).

=back

=head1 DETAILS

=head2 ENVIRONMENT VARIABLES

=over 4

=item PERL_MAILERS

Augments/override the build in choice for binary used to send out our mail messages.

Format:

"type1:mailbinary1;mailbinary2;...:type2:mailbinaryX;...:..."

Example: assume you want you use private sendmail binary instead of mailx, one could set C<PERL_MAILERS> to:

"mail:/does/not/exists:sendmail:\$HOME/test/bin/sendmail"

On systems which may include C<:> in file names, use C<|> as separator between type-groups.

```
"mail:c:/does/not/exists|sendmail:$HOME/test/bin/sendmail"
```

=back

=head2 BUGS

Mail::Mailer does not help with folding, and does not protect against various web-script hacker attacks, for instance where a new-line is inserted in the content of the field.

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

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=head1 NAME

Mail::Header - manipulate MIME headers

=head1 SYNOPSIS

```
use Mail::Header;
```

```
my $head = Mail::Header->new;  
my $head = Mail::Header->new( \*STDIN );  
my $head = Mail::Header->new( [<>], Modify => 0);
```

=head1 DESCRIPTION

Read, write, create, and manipulate MIME headers, the leading part of each modern e-mail message, but also used in other protocols like HTTP. The fields are kept in L<Mail::Field|Mail::Field> objects.

Be aware that the header fields each have a name part, which shall be treated case-insensitive, and a content part, which may be folded over multiple lines.

Mail::Header does not always follow the RFCs strict enough, does not help you with character encodings. It does not use weak references where it could (because those did not exist when the module was written) which costs some performance and make the implementation a little more complicated. The Mail::Message::Head implementation is much newer and therefore better.

=head1 METHODS

=head2 Constructors

=over 4

=item \$obj-E<gt>B<dup>()

Create a duplicate of the current object.

=item \$obj-E<gt>B<new>([\$source], [%options])

=item Mail::Header-E<gt>B<new>([\$source], [%options])

The \$source may be either a file descriptor (reference to a GLOB) or a reference to an array. If given the new object will be initialized with headers either from the array of read from the file descriptor.

%options is a list of options given in the form of key-value pairs, just like a hash table. Valid options are

-Option --Default
FoldLength 79
MailFrom 'KEEP'
Modify false

=over 2

=item FoldLength => INTEGER

The default length of line to be used when folding header lines.
See L<fold_length()|Mail::Header/"Accessors">.

=item MailFrom => 'IGNORE'|'COERCE'|'KEEP'|'ERROR'

See method L<mail_from()|Mail::Header/"Accessors">.

=item Modify => BOOLEAN

If this value is I<true> then the headers
will be re-formatted,
otherwise the format of the header lines will remain unchanged.

=back

=back

=head2 "Fake" constructors

Be warned that the next constructors all require an already created
header object, of which the original content will be destroyed.

=over 4

=item \$obj-E<gt>B<empty>()

Empty an existing C<Mail::Header> object of all lines.

=item \$obj-E<gt>B<extract>(ARRAY)

Extract a header from the given array into an existing Mail::Header
object. C<extract> B<will modify> this array.
Returns the object that the method was called on.

=item \$obj-E<gt>B<header>([ARRAY])

C<header> does multiple operations. First it will extract a header from
the ARRAY, if given. It will then reformat the header (if reformatting
is permitted), and finally return a reference to an array which

contains the header in a printable form.

```
=item $obj-E<gt>B<header_hashref>([HASH])
```

As `L<header>[Mail::Header/""Fake" constructors">`, but it will eventually set headers from a hash reference,

and it will return the headers as a hash reference.

example:

```
$fields->{From} = 'Tobias Brox <tobix@cpan.org>';  
$fields->{To} = ['you@somewhere', 'me@localhost'];  
$head->header_hashref($fields);
```

```
=item $obj-E<gt>B<read>($fh)
```

Read a header from the given file descriptor into an existing `Mail::Header` object.

```
=back
```

```
=head2 Accessors
```

```
=over 4
```

```
=item $obj-E<gt>B<fold_length>([$tag], [$length])
```

Set the default fold length for all tags or just one. With no arguments the default fold length is returned. With two arguments it sets the fold length for the given tag and returns the previous value. If only `C<$length>` is given it sets the default fold length for the current object.

In the two argument form `C<fold_length>` may be called as a static method, setting default fold lengths for tags that will be used by `B<all>` `C<Mail::Header>` objects. See the `C<fold>` method for a description on how `C<Mail::Header>` uses these values.

```
=item $obj-E<gt>B<mail_from>('IGNORE'|'COERCE'|'KEEP'|'ERROR')
```

This

specifies what to do when a `C<`From`>` line is encountered.

Valid values are `C<IGNORE>` - ignore and discard the header,

`C<ERROR>` - invoke an error (call die), `C<COERCE>` - rename them as Mail-From and `C<KEEP>` - keep them.

```
=item $obj-E<gt>B<modify>([$value])
```

If `C<$value>` is `I<false>` then `C<Mail::Header>` will not do any automatic

reformatting of the headers, other than to ensure that the line starts with the tags given.

=back

=head2 Processing

=over 4

=item \$obj-E<gt>B<add>(\$tag, \$line [, \$index])

Add a new line to the header. If \$tag is C<undef> the tag will be extracted from the beginning of the given line. If \$index is given, the new line will be inserted into the header at the given point, otherwise the new line will be appended to the end of the header.

=item \$obj-E<gt>B<as_string>()

Returns the header as a single string.

=item \$obj-E<gt>B<cleanup>()

Remove any header line that, other than the tag, only contains whitespace

=item \$obj-E<gt>B<combine>(\$tag [, \$with])

Combine all instances of \$tag into one. The lines will be joined together \$with, or a single space if not given. The new item will be positioned in the header where the first instance was, all other instances of \$tag will be removed.

=item \$obj-E<gt>B<count>(\$tag)

Returns the number of times the given tag appears in the header

=item \$obj-E<gt>B<delete>(\$tag [, \$index])

Delete a tag from the header. If an \$index id is given, then the Nth instance of the tag will be removed. If no \$index is given, then all instances of tag will be removed.

=item \$obj-E<gt>B<fold>([\$length])

Fold the header. If \$length is not given, then C<Mail::Header> uses the following rules to determine what length to fold a line.

=item \$obj-E<gt>B<get>(\$tag [, \$index])

Get the text from a line. If an \$index is given, then the text of the Nth instance will be returned. If it is not given the return value depends on the context in which C<get> was called. In an array context a list of all the text

from all the instances of the \$tag will be returned. In a scalar context the text for the first instance will be returned.

The lines are unfolded, but still terminated with a new-line (see C<chomp>)

=item \$obj-E<gt>B<print>([\$fh])

Print the header to the given file descriptor, or C<STDOUT> if no file descriptor is given.

=item \$obj-E<gt>B<replace>(\$tag, \$line [, \$index])

Replace a line in the header. If \$tag is C<undef> the tag will be extracted from the beginning of the given line. If \$index is given the new line will replace the Nth instance of that tag, otherwise the first instance of the tag is replaced. If the tag does not appear in the header then a new line will be appended to the header.

=item \$obj-E<gt>B<tags>()

Returns an array of all the tags that exist in the header. Each tag will only appear in the list once. The order of the tags is not specified.

=item \$obj-E<gt>B<unfold>([\$tag])

Unfold all instances of the given tag so that they do not spread across multiple

lines. If C<\$tag> is not given then all lines are unfolded.

The unfolding process is wrong but (for compatibility reasons) will not be repaired: only one blank at the start of the line should be removed, not all of them.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark

Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.

Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.

Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.

For other contributors see ChangeLog.

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Found

in path(s):

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Header.pod

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#!/usr/bin/perl -w

Note by Mark Overmeer:

This script does work, but Mail::Send may provide a nicer interface

NAME

mail-mailer.pl - Smtplib client written in Perl

#

SYNOPSIS

mail-mailer.pl -s "Test" --smtp=my-smtp-server.com admin@net1.net

#

INTRODUCTION

This script can be an alternative to the 'mail' Unix command when

sending e-mails.

It reads the mail body from the standard input.

If your system is Windows, use the '--smtp' option to send your

e-mails.

This script works in Linux, Unix and Windows environments.

#

OPTIONS

-f From

-s Subject

-c Cc-address

-b bcc-address

--sendmail Use sendmail to send the e-mail

--qmail Use qmail-inject to send the e-mail

--smtp=HOSTNAME Use HOSTNAME as the SMTP server.

```

# --help Prints the help info and exits
#
# EXAMPLES
# cat mailbody.txt | mail-mailer.pl -f me@mydom.com -s "Hy dude" --sendmail friend@dom.com
#
#
AUTHOR
# Bruno Negrao G Zica <bnegrao@engepel.com.br>
#
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# This program is free software; you can redistribute it and/or modify
# it under the same terms as Perl itself.
#
# LAST MODIFIED
# 01/12/2004
#####
use Mail::Mailer;
use Getopt::Long;
use strict;

# hash that'll receive the arguments and options
my %opt;
GetOptions ( \%opt, 'help', 'f=s', 's=s', 'c=s', 'b=s', 'sendmail',
'qmail', 'smtp=s' );

if ($opt{help}) { help(); exit 0; }

$opt{to} = $ARGV[$#ARGV]; # the "To" address is the last argument
die "Error: You didn't specify a destination e-mail address.\n"
unless ( $opt{to} || $opt{c} || $opt{b} );

# Defining the method to send the message
my $mailer; # Mail::Mailer object
if ($opt{sendmail}) {
    $mailer = new Mail::Mailer 'sendmail';
} elsif ($opt{qmail}) {
    $mailer = new Mail::Mailer 'qmail';
} elsif ($opt{smtp}) {
    $mailer = new Mail::Mailer
'smtp', Server => $opt{smtp};
} else {
    die "Error: you didn't specify the delivery method. ".
    "Possible methods are:\n'--qmail', '--sendmail', and ".
    "--smtp=HOSTNAME\n";
}
# Setting the headers
my %headers; # hash with the e-mail headers

```

```

$headers{To} = $opt{to};
$headers{From} = $opt{f} if defined $opt{f};
$headers{Cc} = $opt{c} if defined $opt{c};
$headers{Bcc} = $opt{b} if defined $opt{b};
$headers{Subject} = $opt{s} if defined $opt{s};
$mailer->open(\\%headers);

```

Reading and feeding the e-mail body

```

while (<STDIN>) {
    last if ( $_ =~ /^\\.$/ );
    print $mailer $_;
}

```

Finishing

```

$mailer->close();

```

Subroutines

```

sub help {
    print '
Example 1: Entering the e-mail body by hand:
mail-mailer.pl -s "Hy buddy" --qmail friend@domain.com
[ ENTER YOU MESSAGE BODY ]
[ A SINGLE . (dot sign) ALONE IN ONE LINE TO SAY ]
[ YOU FINISHED YOUR E-MAIL ]
.
'
}

```

Example 2: Using the output of another program as the body:

```

dir c:\\ | perl mail-mailer.pl -f me@mydom.com -s "My c:\\" admin@mydom.com
--smtp=server1.mydom.com

```

OPTIONS

```

-f addr From address.
-s TEXT Subject.
-c addr Cc-address.
-b addr bcc-address.
--sendmail Use sendmail to send the e-mail.
--qmail Use qmail-inject to send the e-mail.
--smtp HOSTNAME Use HOSTNAME as the SMTP server.
--help Prints this help text.
';
}

```

Found in path(s):

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/examples/mail-mailer.pl

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abstract: 'Various ancient e-mail related modules'

author:
- 'Mark Overmeer <markov@cpan.org>'
build_requires:
ExtUtils::MakeMaker: '0'
configure_requires:
ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.3, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>
version: '1.4'
name: MailTools
no_index:
directory:
- t
- inc
requires:
Date::Format: '0'
Date::Parse: '0'
IO::Handle: '0'
Net::Domain: '1.05'
Net::SMTP: '1.03'
Test::More: '0'
resources:
homepage: <http://perl.overmeer.net/CPAN/>
license: <http://dev.perl.org/licenses/>
repository: <https://github.com/markov2/perl5-MailTools.git>
version: '2.21'
x_serialization_backend: 'CPAN::Meta::YAML version 0.011'

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* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/META.yml

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=encoding utf8

=head1 NAME

Mail::Util - mail utility functions

=head1 INHERITANCE

Mail::Util

is a Exporter

=head1 SYNOPSIS

```
use Mail::Util qw( ... );
```

```
=head1 DESCRIPTION
```

This package provides several mail related utility functions. Any function required must be explicitly listed on the use line to be exported into the calling package.

```
=head1 FUNCTIONS
```

```
=over 4
```

```
=item B<mailaddress>( [$address] )
```

Return a guess at the current users mail address. The user can force the return value by setting the MAILADDRESS environment variable.
[2.10] You may set the \$address via the parameter.

WARNING:

When not supplied via the environment variable, <mailaddress> looks at various configuration files and other environmental data. Although this seems to be smart behavior, this is not predictable enough (IMHO) to be used. Please set the MAILADDRESS explicitly, and do not trust on the "automatic detection", even when that produces a correct address (on the moment)

example:

```
# in your main script
$ENV{MAILADDRESS} = 'me@example.com';
```

```
# everywhere else
use Mail::Util 'mailaddress';
print mailaddress;
```

```
# since v2.10
mailaddress "me@example.com";
```

```
=item B<maildomain>()
```

Attempt to determine the current user mail domain string via the following methods

```
=over 4
```

```
=item * Look for the MAILDOMAIN environment variable, which can be set from outside the program. This is by far the best way to configure the domain.
```

=item * Look for a sendmail.cf file and extract DH parameter

=item * Look for a smail config file and use the first host defined in hostname(s)

=item * Try an SMTP connect (if Net::SMTP exists) first to mailhost then localhost

=item * Use value from Net::Domain::domainname (if Net::Domain exists)

=back

WARNING:

On modern machines, there is only one good way to provide information to this method: the first; always explicitly configure the MAILDOMAIN.

example:

```
# in your main script
```

```
$ENV{MAILDOMAIN} = 'example.com';
```

```
# everywhere else
```

```
use Mail::Util 'maildomain';
```

```
print maildomain;
```

=item B<read_mbox>(\$file)

Read \$file, a binmail mailbox file, and return a list of references.

Each reference is a reference to an array containing one message.

WARNING:

This method does not quote lines which accidentally also start with the message separator C<From>, so this implementation can be considered broken. See Mail::Box::Mbox

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,

F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<It>aas@oslonett.noE<gt>.

Mail::Field::AddrList by Peter Orbaek E<It>poe@cit.dkE<gt>.

Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.
For other contributors see ChangeLog.

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See F<http://www.perl.com/perl/misc/Artistic.html>

Found in path(s):

* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Util.pod

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=encoding utf8

=head1 NAME

Mail::Filter - filter mail through multiple subroutines

=head1 SYNOPSIS

use Mail::Filter;

```
my $filter = Mail::Filter->new( \&filter1, \&filter2 );
```

```
my $mail = Mail::Internet->new( [<>] );  
my $mail = $filter->filter($mail);
```

```
my $folder = Mail::Folder->new( .... );  
my $filter->filter($folder);
```

=head1 DESCRIPTION

C<Mail::Filter> provides an interface to filtering Email through multiple subroutines.

C<Mail::Filter> filters mail by calling each filter subroutine in turn. Each filter subroutine is called with two arguments, the first is the filter object and the second is the mail or folder object being filtered.

The result from each filter sub is passed to the next filter as the mail object. If a filter subroutine returns undef, then C<Mail::Filter> will abort and return immediately.

The function returns the result from the last subroutine to operate on the mail object.

=head1 METHODS

=head2 Constructors

=over 4

=item Mail::Filter-E<gt>B<new>(@filters)

Create a new C<Mail::Filter> object with the given filter subroutines. Each filter may be either a code reference or the name of a method to call on the <Mail::Filter> object.

=back

=head2 Accessors

=over 4

=item \$obj-E<gt>B<add>(@filters)

Add the given @filters to the end of the filter list.

=back

=head2 Processing

=over 4

=item \$obj-E<gt>B<filter>(\$mail,\$folder)

If the first argument is a L<Mail::Internet|Mail::Internet> object, then this object will be passed through the filter list. If the first argument is a Mail::Folder object, then each message in turn will be passed through the filter list.

=item \$obj-E<gt>B<folder>()

While the L<filter()|Mail::Filter/"Processing"> method is called with a Mail::Folder object, these filter subroutines can call this method to obtain the folder object that is being processed.

=item \$obj-E<gt>B<msgnum>()

If the L<filter()|Mail::Filter/"Processing">

method is called with a Mail::Folder object, then the filter subroutines may call this method to obtain the message number of the message that is being processed.

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.
Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.
Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.
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* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Field/Date.pm
* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Field/Generic.pm
* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Address.pm
* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Mailer/testfile.pm
* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Field.pm
* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Mailer.pm
* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Util.pm
* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Mailer/sendmail.pm
* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Filter.pm
* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Cap.pm
* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Header.pm

```
* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Mailer/smtp.pm
*
/libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Mailer/qmail.pm
* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Field/AddrList.pm
* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/MailTools.pm
* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Mailer/smtp.pm
* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Internet.pm
* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Send.pm
* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Mailer/rfc822.pm
No license file was found, but licenses were detected in source scan.
```

=encoding utf8

=head1 NAME

Mail::Cap - understand mailcap files

=head1 SYNOPSIS

```
my $mc = Mail::Cap->new;
```

```
my $desc = $mc->description('image/gif');
print "GIF desc: $desc\n";
```

```
my $cmd = $mc->viewCmd('text/plain; charset=iso-8859-1', 'file.txt');
```

=head1 DESCRIPTION

Parse mailcap files as specified in "RFC 1524 --A User Agent Configuration Mechanism For Multimedia Mail Format Information". In the description below C<\$type> refers to the MIME type as specified in the C<Content-Type> header of mail or HTTP messages. Examples of types are:

```
image/gif
text/html
text/plain; charset=iso-8859-1
```

You could also take a look at the File::MimeInfo distribution, which are accessing tables which are used by many applications on a system, and therefore have succeeded the mail-cap specifications on modern (UNIX) systems.

=head1 METHODS

=head2 Constructors

=over 4

=item Mail::Cap-E<gt>B<new>(%options)

Create

and initialize a new Mail::Cap object. If you give it an argument it will try to parse the specified file. Without any arguments it will search for the mailcap file using the standard mailcap path, or the MAILCAPS environment variable if it is defined.

-Option --Default

filename undef

take 'FIRST'

=over 2

=item filename => FILENAME

Add the specified file to the list to standard locations. This file is tried first.

=item take => 'ALL'|'FIRST'

Include all mailcap files you can find. By default, only the first file is parsed, however the RFC tells us to include ALL. To maintain backwards compatibility, the default only takes the FIRST.

=back

example:

```
$mcap = new Mail::Cap;  
$mcap = new Mail::Cap "/mydir/mailcap";  
$mcap = new Mail::Cap filename => "/mydir/mailcap";  
$mcap = new Mail::Cap take => 'ALL';  
$mcap = Mail::Cap->new(take => 'ALL');
```

=back

=head2 Run commands

These methods invoke a suitable program presenting or manipulating the media object in the specified file. They all return C<1> if a command was found, and C<0> otherwise. You might test C<\$?> for the outcome of the command.

=over 4

=item \$Obj-E<gt>B<compose>(\$type, \$file)

=item \$Obj-E<gt>B<edit>(\$type, \$file)

=item \$Obj-E<gt>B<print>(\$type, \$file)

=item \$Obj-E<gt>B<view>(\$type, \$file)

=back

=head2 Command creator

These methods return a string that is suitable for feeding to system() in order to invoke a suitable program presenting or manipulating the media object in the specified file. It will return C<undef> if no suitable specification exists.

=over 4

=item \$Obj-E<gt>B<composeCmd>(\$type, \$file)

=item \$Obj-E<gt>B<editCmd>(\$type, \$file)

=item \$Obj-E<gt>B<printCmd>(\$type, \$file)

=item \$Obj-E<gt>B<viewCmd>(\$type, \$file)

=back

=head2 Look-up definitions

Methods return the corresponding mailcap field for the type.

=over 4

=item \$Obj-E<gt>B<description>(\$type)

=item \$Obj-E<gt>B<field>(\$type, \$field)

Returns the specified field for the type. Returns undef if no specification exists.

=item \$Obj-E<gt>B<nametemplate>(\$type)

=item \$Obj-E<gt>B<textualnewlines>(\$type)

=item \$Obj-E<gt>B<x11_bitmap>(\$type)

=back

=head1 SEE ALSO

This module is part of the MailTools distribution,
F<<http://perl.overmeer.net/mailtools/>>.

=head1 AUTHORS

The MailTools bundle was developed by Graham Barr. Later, Mark Overmeer took over maintenance without commitment to further development.

Mail::Cap by Gisle Aas E<lt>aas@oslonett.noE<gt>.
Mail::Field::AddrList by Peter Orbaek E<lt>poe@cit.dkE<gt>.
Mail::Mailer and Mail::Send by Tim Bunce E<lt>Tim.Bunce@ig.co.ukE<gt>.
For other contributors see ChangeLog.

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Found in path(s):
* /libmailtools-perl-2-21-orig-tar-gz/MailTools-2.21/lib/Mail/Cap.pod

1.125 packaging 19.2

1.125.1 Available under license :

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1.126 json-c 0.99.8-2

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1.127 iconv 2.31

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1.128 cron 3.0pl1-136ubuntu1

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* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/pathnames.h

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*

/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/misc.c

* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/config.h

* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/job.c

* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/database.c

* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/env.c

* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.h

* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/user.c

* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.c

* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.c

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 */

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* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/popen.c

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```
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.\" * user.
.\" *
.\" * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
.\" * I'll try to keep a version up to date. I can be reached as follows:
.\" * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

Found in path(s):

*

/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.8

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/*

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```

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*
* @(#)bitstring.h 5.2
* (Berkeley) 4/4/90
*/

```

Found in path(s):

```
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/bitstring.h
```

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```

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.\" THIS SOFTWARE IS PROVIDED ``AS IS" AND WITHOUT ANY EXPRESS OR
.\" IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
.\" WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
.\"
.\" @(#)bitstring.3 5.1
.\" (Berkeley) 12/13/89
.\"

```

Found in path(s):

```
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/bitstring.3
```

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* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/Makefile

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./" * Send bug reports, bug fixes, enhancements, requests, flames, etc., and

./" * I'll try to keep a version up to date. I can be reached as follows:

./" * Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul

./" */

./"

./" \$Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp \$

./"

Found in path(s):

*

/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.1

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* I'll try to keep a version up to date. I can be reached as follows:

* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul

*/

\$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp \$

Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the 'crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for 'man' and you probably do not. Therefore you may have to put the man pages into /usr/man/man1, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the 'crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for `replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no '&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):

```
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/INSTALL
```

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.\ " * user.
.\ " *
.\ " * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
.\ " * I'll try to keep a version up to date. I can be reached as follows:
```

```
.\" * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
.\" */
.\"
.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
.\"
```

Found in path(s):

*

/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.5

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# * software; use at your own risk, responsibility for damages (if any) to
# * anyone resulting from the use of this software rests entirely with the
# * user.
# *
# * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
# * I'll try to keep a version up to date. I can be reached as follows:
# * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
# */
```

Vixie Cron V3.0

December 27, 1993

[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]

[V2.0 was July 5, 1990]

[V2.0-beta

was December 9, 1988]

[V1.0 was May 6, 1987]

Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on

SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files

Edit config.h

Edit Makefile

(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)

'make'

'su' and 'make install'

(you may have to install the man pages by hand)

kill your existing cron process

(actually you can run your existing cron if you want, but why?)

build new crontabs using /usr/lib/{crontab,crontab.local}

(either put them all in "root"'s crontab, or divide it up and rip out all the 'su' commands, collapse the lengthy lists into

ranges with steps -- basically, this step is

as much work as you want to make it)

start up the new cron

(must be done as root)

watch it. test it with 'crontab -r' and watch the daemon track your changes.

if you like it, change your /etc/{rc,rc.local} to use it instead of the old one.

\$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp \$

Found in path(s):

* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/README

1.129 attr 2.4.48-5

1.129.1 Available under license :

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Version 2.1, February 1999

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<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, '
'))"/>

<xsl:text>
</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '
')"/>

<xsl:if test="translate(\$rest, '	 ', ' ')">

<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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</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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* 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.

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=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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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, '
'))"/>

<xsl:text>
</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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    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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1.139 mime-support 3.64ubuntu1

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1.140 bash-completion 2.10-1ubuntu1

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1.141 libfido2 1.3.1-1ubuntu2

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@page

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```
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under certain conditions; type `show c' for details.
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```

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```
@example
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```

```
@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example
```

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Version 2.1, February 1999

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1.143 shared-mime-info 1.15-1

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1.144 libtext-iconv-perl 1.7-7

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Text::Iconv Version 1.6

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Description

This module provides a Perl interface to the iconv() codeset conversion function, as defined by the Single UNIX Specification. For more details see the POD documentation embedded in the file Iconv.pm, which will also be installed as Text::Iconv(3) man page.

Prerequisites

Your system should be compliant with the Single UNIX Specification or at least provide iconv_open(), iconv() and iconv_close() functions compliant with it.

Note that the possible conversions and the quality of the conversions depend on the available iconv conversion tables and algorithms, which are in most cases supplied by the operating system vendor. Some systems also allow you to build your own tables (e.g., HP-UX, Tru64 UNIX, and AIX provide the genxlt(1) command).

It is also possible to use a separate iconv library such as GNU

libiconv package, just make sure that the desired library is found (see <<http://www.gnu.org/directory/localization/libiconv.html>>).

Building the module

Since the Single UNIX Specification only specifies an interface, several issues are left to the implementation to define, namely:

1. The supported codesets
2. The supported conversions
3. The names for the supported codesets

Please check your system documentation for the above points.

The module can be built using this sequence of commands:

```
perl Makefile.PL
make
make test
```

On some systems, the iconv functions are in libc; on others (and when you want to use a separate iconv library, such as GNU libiconv), you have to link with -liconv. Makefile.PL tries to automatically detect this. However, if your iconv library is in a non-standard path, you might have to help it.

You can specify library and include paths like this:

```
perl Makefile.PL LIBS='-L/path/to/lib' INC='-I/path/to/include'
```

You might also have to do this if you have multiple iconv implementations installed and want to use a specific one.

The purpose of the test scripts (run by "make test") is to check if an iconv library can be found, and if the iconv functions can be called. It is neither intended to find out which conversions are supported, nor to test the quality of the conversions provided by your iconv library. However, since the iconv functions can only be tested by calling them, which in turn requires the specification of codesets to be converted. The test scripts try some conversions which seem to be widely supported. Conversions not supported by your iconv implementation are skipped, but for the purpose outlined above this is no problem, as it shows that the iconv functions are working. There is no standard way to find out which conversions are supported by an implementation.

This is also the reason why Text::Iconv can't provide platform-independent support for codeset identifiers (even if it it

would be nice to have).

Installation

make install

Feedback

Text::Iconv was tested on various platforms and with different iconv implementations.

If you built Text::Iconv on a platform where you needed to specify additional libraries, or where none of the codeset identifiers in the test scripts are supported, please drop me a note.

Thanks

Thanks go to all those who reported bugs and suggested features.

Michael Piotrowski <mxp@dynalabs.de>

Found in path(s):

* /libtext-iconv-perl-1-7-orig-2-tar-bz2/Text-Iconv-1.7/README

1.145 libtext-charwidth-perl 0.04-10

1.145.1 Available under license :

Found license 'General Public License 2.0' in 'This library is free software; you can redistribute it and/or modify a) the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later'

1.146 Imdb 0.9.24-1

1.146.1 Available under license :

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1.147 libalgorithm-diff-xs-perl 0.04-6

1.147.1 Available under license :

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

NAME

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

SYNOPSIS

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

DESCRIPTION

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

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

BENCHMARK

	Rate	Algorithm::Diff	Algorithm::Diff::XS
Algorithm::Diff	14.7/s	--	-98%
Algorithm::Diff::XS	806/s		
	5402%	--	

The benchmarking script is as below:

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

```

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

```

SEE ALSO

Algorithm::Diff, Algorithm::LCS.

AUTHORS

Audrey Tang <cpan@audreyt.org>

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Contains derived code copyrighted 2003 by Joe Schaefer,
<joe+cpan@sunstarsys.com>.

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under the same terms as Perl itself.

Found in path(s):

* /libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/README

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

/*

ppport.h -- Perl/Pollution/Portability Version 3.06_01

Automatically created by Devel::PPPort running under
perl 5.008008 on Wed Oct 22 22:33:39 2008.

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 3.06_01

=head1 SYNOPSIS

perl ppport.h [options] [source files]

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

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

=head1 COMPATIBILITY

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

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --patch=I<file>

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

=head2 --copy=I<suffix>

If this option

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

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

=head2 --diff=I<program>

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

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

Tell F<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 up to a certain Perl version.

=head2 --cplusplus

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

=head2 --quiet

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

=head2 --nodiag

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

=head2 --nohints

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

=head2 --nochanges

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

=head2 --nofilter

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

=head2 --list-provided

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

=head2 --list-unsupported

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

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

Show portability information for API elements matching I<name>.

If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

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

=over 4

=item *

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

```
perl ppport.h --list-provided
```

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

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h>

will provide wrappers for older Perl versions.

=item *

If you use one of a few functions that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

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

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

For a C<static> function, use:

```
#define NEED_function
```

For a global function, use:

```
#define NEED_function_GLOBAL
```

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

Function	Static Request	Global Request
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
newCONSTSUB()	NEED_newCONSTSUB	NEED_newCONSTSUB_GLOBAL
newRV_noinc()	NEED_newRV_noinc	NEED_newRV_noinc_GLOBAL
sv_2pv_nolen()	NEED_sv_2pv_nolen	NEED_sv_2pv_nolen_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_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
vnewSVpvf()	NEED_vnewSVpvf	NEED_vnewSVpvf_GLOBAL

To avoid namespace conflicts, you can change the namespace of the explicitly exported functions using the C<DPPP_NAMESPACE> macro.

Just C<#define> the macro before including C<ppport.h>:

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

The default namespace is C<DPPP_>.

=back

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

=head1 EXAMPLES

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

```
perl ppport.h
```

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

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

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

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

```
perl ppport.h --nochanges
```

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

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

This would output context diffs with 10 lines of context.

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


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

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

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

to display portability information for all C<_nomg> functions or

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

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::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) 2004-2005, Marcus Holland-Moritz.

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

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

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

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

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

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

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

```

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

usage() if $opt{help};

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

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

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
FREEMPS|||
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|||
MY_CXT_CLONE|5.009002||p
MY_CXT_INIT|5.007003||p
MY_CXT|5.007003||p
MoveD|5.009002||p
Move|||
NEWSV|||
NOOP|5.005000||p
NUM2PTR|5.006000||p
NVTYPE|5.006000||p
NVef|5.006001||p
NVff|5.006001||p
NVgf|5.006001||p
Newc|||
Newz|||
New|||
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_BCDVERSION|5.009003||p
PERL_GCC_BRACE_GROUPS_FORBIDDEN|5.008001||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|5.007002||p
PERL_MAGIC_isaelem|5.007002||p
PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.007002||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_UNDESCORES|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_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_DECL|5.007002||p
PERL_UQUAD_MAX|5.004000||p
PERL_UQUAD_MIN|5.004000||p
PERL_USHORT_MAX|5.004000||p
PERL_USHORT_MIN|5.004000||p
PERL_VERSION|5.006000||p
PL_DBsingle|||pn
PL_DBsub|||pn
PL_DBtrace|||n
PL_Sv|5.005000||p
PL_compiling|5.004050||p
PL_copline|5.005000||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_hexdigit|5.005000||p
PL_hints|5.005000||p
PL_last_in_gv|||n
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_stack_base|5.004050||p
PL_stack_sp|5.004050||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
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
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);

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

# Scan for possible replacement candidates

my(%replace, %need, %hints, %depends);
my $replace = 0;
my $hint = "";

while (<DATA>) {
if ($hint) {
if (m{^\s*\s*(.*)\s*$})
{
$hints{$hint} ||= ""; # suppress warning with older perls
$hints{$hint} .= "$1\n";
}
else {
$hint = "";
}
}
$hint = $1 if m{^\s*$rccs\sHint:\s+(\w+)\s*$};

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

```

```

if (m{^\\s*$rccs\\s+(\\w+)\\s+depends\\s+on\\s+(\\w+(\\s*,\\s*\\w+)*\\s+$rcce\\s*$}) {
    push @{$depends{$1}}, map { s/^\\s+//g; $_ } split /,/, $2;
}

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

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!^(.*)/$! ? $1 : "\\Q$opt{'api-info'}\\E\\$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        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 "$hints{$f}" if exists $hints{$f};
            $info++;
        }
        unless ($info) {
            print "No portability information available.\\n";
        }
        $count++;
    }
    if ($count > 0) {
        print "\\n";
    }
    else {
        print "Found no API matching '$opt{'api-info'}'.\\n";
    }
    exit 0;
}

if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;

```

```

    push @flags,
'explicit' if exists $need{$f};
    push @flags, 'depend' if exists $depends{$f};
    push @flags, 'hint' if exists $hints{$f};
    my $flags = @flags ? ' [' .join(' ', @flags).']' : "";
    print "$f$flags\n";
}
exit 0;
}

my @files;
my @srcext = qw( xs c h cc cpp );
my $srcext = join '|', @srcext;

if (@ARGV) {
    my %seen;
    @files = grep { -f && !exists $seen{$_} } map { glob $_ } @ARGV;
}
else {
    eval {
        require File::Find;
        File::Find::find(sub {
            $File::Find::name =~ /\.$srcext$/i
            and push @files, $File::Find::name;
        }, '.');
    };
    if ($?) {
        @files = map { glob ".*.$_" } @srcext;
    }
}

if (!@ARGV || $opt{filter}) {
    my(@in, @out);
    my %xsc = map { /(.*).xs$/ ? ("1.c" => 1, "1.cc" => 1) : () } @files;
    for (@files) {
        my $out = exists $xsc{$_} || /\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;
}

unless (@files) {
    die "No input files given!\n";
}

```

```

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

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

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

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

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

    # temporarily remove C comments from the code
    my @ccom;
    $c =~ s{
        (
            [^"]/+
            |
            (?:"[^"]"*(?:\\.[^"]*)*" [^"]/*)+
            |
            (?:'[^']*'*(?:\\.[^']**)*' [^']*/*)+
        )
        |
        (/ (?
            \*[^\*]*\*+(?:\[^\$ccs][^\*]*\*+)* /
            |
            /\r\n)*
        ))
    }{
        defined $2 and push @ccom, $2;
        defined $1 ? $1 : "$ccs$#ccom$ccce";
    }egsx;

    $file{ccom} = \@ccom;
    $file{code} = $c;
    $file{has_inc_ppport} = ($c =~ /#.include.*\Q$ppport\E/);

    my $func;

    for $func (keys %API) {
        my $match = $func;

```



```

$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
    $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Perl}{$func}++ if $c =~ /\bPerl_{$func}\b/;
    if (exists $API{$func}{provided}) {
        if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
            $file{uses}{$func}++;
            my @deps = rec_depend($func);
            if (@deps) {
                $file{uses_deps}{$func} = \@deps;
                for (@deps) {
                    $file{uses}{$_} = 0 unless exists $file{uses}{$_};
                }
            }
            for ($func, @deps) {
                if (exists $need{$_}) {
                    $file{needs}{$_} = 'static';
                }
            }
        }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
        if ($c =~ /\b{$func}\b/) {
            $file{uses_todo}{$func}++;
        }
    }
}

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

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

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

```

```

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

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

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

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

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

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

```

```

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

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

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

for $func (sort keys %{$file{needed_global}}) {
    my $message =
";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    }
    elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        }
        elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        }
    }
}

```

```

}
if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^\$HS*#\$HS*define\$HS+NEED_{func}_GLOBAL\b.*$LF//mg);
}
}

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

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

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

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

```

```

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

```

close PATCH if \$patch_opened;

exit 0;

```

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

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

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

```

```

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

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

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

print F $diff;

}

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

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

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

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

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

```

```

}

return undef;
}

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

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

sub parse_version
{
    my $ver = shift;

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

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

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

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

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

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

sub format_version

```



```

{
my $ver = shift;

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

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

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

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

    return $ver;
}

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

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

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

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

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

my %given_hints;

```

```

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

```

```

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

```

```

print <<ENDUSAGE;

```

Usage: \$usage

See perldoc \$0 for details.

ENDUSAGE

```

exit 2;
}

```

```

__DATA__
*/

```

Found in path(s):

* /libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/ppport.h

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

abstract: Algorithm::Diff with XS core loop

author: Audrey Tang <cpan@audreyt.org>

distribution_type: module

generated_by: Module::Install version 0.67

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.3.html>

version: 1.3

name: Algorithm-Diff-XS

no_index:

directory:

- inc
- t

requires:

Algorithm::Diff: 1.19

perl: 5.6.0

version: 0.01

Found in path(s):

* /libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/META.yml

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

=head1 NAME

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

=head1 SYNOPSIS

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

=head1 DESCRIPTION

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

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

=head1 BENCHMARK

	Rate	Algorithm::Diff	Algorithm::Diff::XS
Algorithm::Diff	14.7/s	--	-98%
Algorithm::Diff::XS	806/s	5402%	
	--		

The benchmarking script is as below:

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

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

=head1 SEE ALSO

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

=head1 AUTHORS

Audrey Tang E<lt>cpan@audreyt.orgE<gt>

=head1 COPYRIGHT

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=cut

Found in path(s):

* /libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/lib/Algorithm/Diff/XS.pm

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

```
'GNU public license'          => 'gpl',      1,
'GNU lesser public license'    => 'gpl',      1,
'BSD license'                 => 'bsd',      1,
'proprietary'                 => 'proprietary', 0,
if ( $osi and $license_text =~ /All rights reserved/i ) {
warn "LEGAL WARNING: 'All rights reserved' may invalidate Open Source licenses. Consider removing it.";
```

Found in path(s):

* /libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/inc/Module/Install/Metadata.pm

1.148 netifaces 0.10.4-1ubuntu4

1.148.1 Available under license :

MIT

1.149 vim 8.1.2269-1ubuntu5

1.150 bsdmainutils 11.1.2ubuntu3

1.150.1 Available under license :

This is a collection of programs from 4.4BSD-Lite that have not (yet) been re-written by FSF as GNU. It was constructed for inclusion in Debian Linux. As programs found here become available from GNU sources, they will be replaced.

This package was originally put together by Austin Donnelly <and1000@debian.org>, but is heavily based on bsdutils, originally put together by Ian Murdock <imurdock@gnu.ai.mit.edu>. Please report any problems or suggested additions or changes to Austin Donnelly.

Then the package has been maintained by Charles Briscoe-Smith <cpbs@debian.org>. I gathered data for the 1999-2001 calendar files from various sources on the Internet, and I'd also like to thank Oliver Elphick, Julian Gilbey, Daniel Martin and Jaldhar H. Vyas for providing much useful data on the various religious calendars. I have edited the files they provided to fit calendar's requirements, so any errors should be attributed to me.

After cpbs@debian.org, Marco d'Itri <md@linux.it> maintained it for almost two years, before Tollef Fog Heen <tfheen@debian.org> took over. The package is now maintained by Graham Wilson <bob@decoy.wox.org>.

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1.151 netbase 6.1

1.151.1 Available under license :

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Wed, 24 Aug 1994 21:33:28 +0200 and maintained by Anthony Towns
<ajt@debian.org> until 2001.
It is currently maintained by Marco d'Itri <md@linux.it>.

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1.152 console-setup 1.194ubuntu3

1.152.1 Available under license :

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== u_vga16.bdf

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8x13B.bdf 8x13Bc.bdf 8x13.bdf 8x13c.bdf 8x13-IL2.bdf 8x13O.bdf
9x15B.bdf 9x15Bc.bdf 9x15.bdf 9x15c.bdf 9x15B-IL2.bdf 9x15-IL2.bdf
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1.153 python-nacl 1.3.0-5

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1.154 libalgorithm-diff-perl 1.19.03-2

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```
#!/usr/bin/perl -w
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#
# Altered to output in `context diff' format (but without context)
# September 1998 Christian Murphy (cpm@muc.de)
#
# Command-line arguments and context lines feature added
# September 1998 Amir D. Karger (karger@bead.aecom.yu.edu)
#
# In this file, "item" usually means "line of text", and "item number" usually
# means "line number". But theoretically the code could be used more generally
use strict;
```

```
use Algorithm::Diff qw(diff);
use File::stat;
use vars qw($opt_C $opt_c $opt_u $opt_U);
use Getopt::Std;

my $usage = << "ENDUSAGE";
Usage: $0 [{-c | -u}] [{-C | -U} lines] oldfile newfile
  -c will do a context diff with 3 lines of context
  -C will do a context diff with 'lines' lines of context
  -u will do a unified diff with 3 lines of context
  -U will do a unified diff with 'lines' lines of context
ENDUSAGE
```

```
getopts("U:C:cu") or bag("$usage");
bag("$usage") unless @ARGV == 2;
```

```

my ($file1, $file2) = @ARGV;
if (defined $opt_C || defined $opt_c) {
    $opt_c = ""; # -c on if -C given on command line
    $opt_u = undef;
} elsif (defined $opt_U || defined $opt_u) {
    $opt_u = ""; # -u on if -U given on command line
    $opt_c = undef;
} else {
    $opt_c = ""; # by default, do context diff, not old diff
}

my ($char1, $char2); # string to print before file names
my $Context_Lines; # lines of context to print
if (defined $opt_c) {
    $Context_Lines = defined $opt_C ? $opt_C : 3;
    $char1 = '*' x 3; $char2 = '-' x 3;
} elsif (defined $opt_u) {
    $Context_Lines = defined $opt_U ? $opt_U : 3;
    $char1 = '-' x 3; $char2 = '+' x 3;
}

# After we've read up to a certain point in each file, the number of items
# we've read from each file will differ by $FLD (could be 0)
my
$File_Length_Difference = 0;

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
my (@f1, @f2);
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

# diff yields lots of pieces, each of which is basically a Block object
my $diffs = diff(\@f1, \@f2);
exit 0 unless @$diffs;

my $st = stat($file1);
print "$char1 $file1\t", scalar localtime($st->mtime), "\n";
$st = stat($file2);
print "$char2 $file2\t", scalar localtime($st->mtime), "\n";

my ($hunk,$oldhunk);
# Loop over hunks. If a hunk overlaps with the last hunk, join them.
# Otherwise, print out the old one.
foreach my $piece (@$diffs) {
    $hunk = new Hunk ($piece, $Context_Lines);

```

```

next unless $oldhunk;

if ($hunk->does_overlap($oldhunk)) {
$hunk->prepend_hunk($oldhunk);
} else {
$oldhunk->output_diff(\@f1, \@f2);
}

} continue {
$oldhunk = $hunk;
}

# print the last hunk
$oldhunk->output_diff(\@f1, \@f2);
exit 1;
# END MAIN PROGRAM

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

# Package Hunk. A Hunk is a group of Blocks which overlap because of the
# context surrounding each block. (So if we're not using context, every
# hunk will contain one block.)
{
package Hunk;

sub new {
# Arg1 is output from &LCS::diff (which corresponds to one Block)
# Arg2 is the number of items (lines, e.g.,) of context around each block
#
# This subroutine changes $File_Length_Difference
#
# Fields in a Hunk:
# blocks    - a list of Block objects
# start     - index in file 1 where first block of the hunk starts
# end       - index in file 1 where last block of the hunk ends
#
# Variables:
# before_diff - how much longer file 2 is than file 1 due to all hunks
#             until but NOT including this one
# after_diff  - difference due to all hunks including this one
my ($class, $piece, $context_items) = @_;
```

```

my $block = new Block ($piece); # this modifies $FLD!

my $before_diff = $File_Length_Difference;
# BEFORE this hunk
my $after_diff = $before_diff + $block->{"length_diff"};
$File_Length_Difference += $block->{"length_diff"};

# @remove_array and @insert_array hold the items to insert and remove
# Save the start & beginning of each array. If the array doesn't exist
# though (e.g., we're only adding items in this block), then figure
# out the line number based on the line number of the other file and
# the current difference in file lengths
my @remove_array = $block->remove;
my @insert_array = $block->insert;
my ($a1, $a2, $b1, $b2, $start1, $start2, $end1, $end2);
$a1 = @remove_array ? $remove_array[0 ]->{"item_no"} : -1;
$a2 = @remove_array ? $remove_array[-1]->{"item_no"} : -1;
$b1 = @insert_array ? $insert_array[0 ]->{"item_no"} : -1;
$b2 = @insert_array ? $insert_array[-1]->{"item_no"} : -1;

$start1 = $a1 == -1 ? $b1 - $before_diff : $a1;
$end1  = $a2 == -1 ? $b2 - $after_diff : $a2;
$start2 = $b1 == -1 ?
$a1 + $before_diff : $b1;
$end2  = $b2 == -1 ? $a2 + $after_diff : $b2;

# At first, a hunk will have just one Block in it
my $hunk = {
    "start1" => $start1,
    "start2" => $start2,
    "end1"   => $end1,
    "end2"   => $end2,
    "blocks" => [$block],
};
bless $hunk, $class;

$hunk->flag_context($context_items);

return $hunk;
}

# Change the "start" and "end" fields to note that context should be added
# to this hunk
sub flag_context {
    my ($hunk, $context_items) = @_;
    return unless $context_items; # no context

    # add context before

```

```

my $start1 = $hunk->{"start1"};
my $num_added = $context_items > $start1 ? $start1 : $context_items;
$hunk->{"start1"} -= $num_added;
$hunk->{"start2"} -= $num_added;

# context after
my $end1 = $hunk->{"end1"};
$num_added = ($end1+$context_items > $f1) ?
    $f1 - $end1 :
    $context_items;
$hunk->{"end1"} += $num_added;
$hunk->{"end2"}
+= $num_added;
}

# Is there an overlap between hunk arg0 and old hunk arg1?
# Note: if end of old hunk is one less than beginning of second, they overlap
sub does_overlap {
    my ($hunk, $oldhunk) = @_;
    return "" unless $oldhunk; # first time through, $oldhunk is empty

    # Do I actually need to test both?
    return ($hunk->{"start1"} - $oldhunk->{"end1"} <= 1 ||
        $hunk->{"start2"} - $oldhunk->{"end2"} <= 1);
}

# Prepend hunk arg1 to hunk arg0
# Note that arg1 isn't updated! Only arg0 is.
sub prepend_hunk {
    my ($hunk, $oldhunk) = @_;

    $hunk->{"start1"} = $oldhunk->{"start1"};
    $hunk->{"start2"} = $oldhunk->{"start2"};

    unshift (@{$hunk->{"blocks"}}, @{$oldhunk->{"blocks"}});
}

# DIFF OUTPUT ROUTINES. THESE ROUTINES CONTAIN DIFF FORMATTING INFO...
sub output_diff {
    if (defined $main::opt_u) {&output_unified_diff(@_)}
    elsif (defined $main::opt_c) {&output_context_diff(@_)}
    else {die "unknown diff"}
}

sub output_unified_diff {

```

```

my ($hunk, $fileref1, $fileref2) = @_;
my @blocklist;

# Calculate item number range.
my $range1 = $hunk->unified_range(1);
my $range2 = $hunk->unified_range(2);
print "@@ - $range1 + $range2 @@\n";

# Outlist starts containing the hunk of file 1.
# Removing an item just means putting a '-' in front of it.
# Inserting an item requires getting it from file2 and splicing it in.
# We splice in $num_added items. Remove blocks use $num_added because
# splicing changed the length of outlist.
# We remove $num_removed items. Insert blocks use $num_removed because
# their item numbers---corresponding to positions in file *2*--- don't take
# removed items into account.
my $low = $hunk->{"start1"};
my $hi = $hunk->{"end1"};
my ($num_added, $num_removed) = (0,0);
my @outlist = @$fileref1[$low..$hi];
map {s/^ /} @outlist; # assume it's just context

foreach my $block (@{$hunk->{"blocks"}}) {
foreach my $item ($block->remove)
{
    my $op = $item->{"sign"}; # -
    my $offset = $item->{"item_no"} - $low + $num_added;
    $outlist[$offset] =~ s/^ /$op/;
    $num_removed++;
}
foreach my $item ($block->insert) {
    my $op = $item->{"sign"}; # +
    my $i = $item->{"item_no"};
    my $offset = $i - $hunk->{"start2"} + $num_removed;
    splice(@outlist,$offset,0,"$op$$fileref2[$i]");
    $num_added++;
}
}

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

}

sub output_context_diff {
    my ($hunk, $fileref1, $fileref2) = @_;
    my @blocklist;

```

```

print "*****\n";
# Calculate item number range.
my $range1 = $hunk->context_range(1);
my $range2 = $hunk->context_range(2);

# Print out file 1 part for each block in context diff format if there are
# any blocks that remove items
print "*** $range1 ***\n";
my $low = $hunk->{"start1"};
my $hi = $hunk->{"end1"};
if (@blocklist = grep {$_->remove} @{$hunk->{"blocks"}}) {
my @outlist =
@fileref1[$low..$hi];
map {s/^ /} @outlist; # assume it's just context
foreach my $block (@blocklist) {
    my $op = $block->op; # - or !
    foreach my $item ($block->remove) {
        $outlist[$item->{"item_no"} - $low] =~ s/^ /$op/;
    }
}
map {s/$\n/} @outlist; # add \n's
print @outlist;
}

print "--- $range2 ---\n";
$low = $hunk->{"start2"};
$hi = $hunk->{"end2"};
if (@blocklist = grep {$_->insert} @{$hunk->{"blocks"}}) {
my @outlist = @fileref2[$low..$hi];
map {s/^ /} @outlist; # assume it's just context
foreach my $block (@blocklist) {
    my $op = $block->op; # + or !
    foreach my $item ($block->insert) {
        $outlist[$item->{"item_no"} - $low] =~ s/^ /$op/;
    }
}
map {s/$\n/} @outlist; # add \n's
print @outlist;
}

}

sub context_range {
# Generate a range of item numbers to print. Only print 1 number if the range
# has only one item in it. Otherwise, it's 'start,end'
my ($hunk, $flag) = @_;
my ($start, $end) = ($hunk->{"start$flag"}, $hunk->{"end$flag"});
$start++; $end++; # index from 1, not zero
my $range = ($start < $end) ? "$start,$end" : $end;

```



```

    return $range;
}

sub unified_range {
# Generate a range of item numbers to print for unified diff
# Print number where block starts, followed by number of lines in the block
# (don't print number of lines if it's 1)
    my ($hunk, $flag) = @_;
    my ($start, $end) = ($hunk->{"start$flag"},$hunk->{"end$flag"});
    $start++; $end++; # index from 1, not zero
    my $length = $end - $start + 1;
    my $first = $length < 2 ? $end : $start; # strange, but correct...
    my $range = $length == 1 ? $first : "$first,$length";
    return $range;
}
} # end Package Hunk

# Package Block. A block is an operation removing, adding, or changing
# a group of items. Basically, this is just a list of changes, where each
# change adds or deletes a single item.
# (Change could be a separate class, but it didn't seem worth it)
{
package Block;
sub new {
# Input is
    a chunk from &Algorithm::LCS::diff
# Fields in a block:
# length_diff - how much longer file 2 is than file 1 due to this block
# Each change has:
# sign      - '+' for insert, '-' for remove
# item_no   - number of the item in the file (e.g., line number)
# We don't bother storing the text of the item
#
    my ($class,$chunk) = @_;
    my @changes = ();

# This just turns each change into a hash.
    foreach my $item (@$chunk) {
        my ($sign, $item_no, $text) = @$item;
        my $hashref = {"sign" => $sign, "item_no" => $item_no};
        push @changes, $hashref;
    }

    my $block = { "changes" => \@changes };
    bless $block, $class;

    $block->{"length_diff"} = $block->insert - $block->remove;
    return $block;
}

```

```
}
```

```
# LOW LEVEL FUNCTIONS
```

```
sub op {
```

```
# what kind of block is this?
```

```
    my $block = shift;
```

```
    my $insert = $block->insert;
```

```
    my $remove = $block->remove;
```

```
    $remove && $insert and return '!';
```

```
    $remove and return '-';
```

```
    $insert and return '+';
```

```
    warn "unknown block type";
```

```
    return '^'; # context block
```

```
}
```

```
# Returns a list of the changes in this block that remove items
```

```
# (or the number of removals if called in scalar context)
```

```
sub remove { return grep {$_->{"sign"} eq '-'} @{$shift->{"changes"}}; }
```

```
# Returns a list of the changes in this block that insert items
```

```
sub insert { return grep {$_->{"sign"} eq '+'} @{$shift->{"changes"}}; }
```

```
} # end of package Block
```

Found in path(s):

* /libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/cdiff.pl

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

```
#!/usr/bin/perl
```

```
#
```

```
# `Diff' program in Perl
```

```
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
```

```
#
```

```
# This program is free software; you can redistribute it and/or modify it
```

```
# under the same terms as Perl itself.
```

```
#
```

```
use Algorithm::Diff qw(diff);
```

```
bag("Usage: $0 oldfile newfile") unless @ARGV == 2;
```

```
my ($file1, $file2) = @ARGV;
```

```
# -f $file1 or bag("$file1: not a regular file");
```

```
# -f $file2 or bag("$file2: not a regular file");
```

```
-T $file1 or bag("$file1: binary");
-T $file2 or bag("$file2: binary");
```

```
open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;
```

```
$diffs = diff(\@f1, \@f2);
exit 0 unless @$diffs;
```

```
foreach $chunk (@$diffs) {
```

```
    foreach $line (@$chunk) {
        my ($sign, $lineno, $text) = @$line;
        printf "%4d$sign %s\n", $lineno+1, $text;
    }
    print "-----\n";
}
exit 1;
```

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

Found in path(s):

* /libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diff.pl

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

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

Found in path(s):

* /libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diffnew.pl

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

=head1 NAME

Algorithm::Diff - Compute 'intelligent' differences between two files / lists

=head1 SYNOPSIS

```
require Algorithm::Diff;
```

This example produces traditional 'diff' output:

```
my $diff = Algorithm::Diff->new( \@seq1, \@seq2 );
```

```
$diff->Base( 1 ); # Return line numbers, not indices
```

```
while( $diff->Next() ) {  
    next if $diff->Same();  
    my $sep = "  
    if( ! $diff->Items(2) ) {  
        printf "%d,%dd%d\n",  
            $diff->Get(qw( Min1 Max1 Max2 ));  
    } elsif( ! $diff->Items(1) ) {  
        printf "%da%d,%d\n",  
            $diff->Get(qw( Max1 Min2 Max2 ));  
    } else {  
        $sep = "---\n";  
        printf "%d,%dc%d,%d\n",  
            $diff->Get(qw( Min1 Max1 Min2 Max2 ));  
    }  
    print "< $_" for $diff->Items(1);  
    print $sep;  
    print "> $_" for $diff->Items(2);  
}
```

Alternate interfaces:

```
use Algorithm::Diff qw(  
    LCS LCS_length LCSIdx  
    diff sdiff compact_diff  
    traverse_sequences traverse_balanced );
```

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

```
( $seq1idxref, $seq2idxref ) = LCSIdx( \@seq1, \@seq2 );
```

Complicated interfaces:

```
@diffs = diff( \@seq1, \@seq2 );
```

```
@sdiffs = sdiff( \@seq1, \@seq2 );
```

```
@cdiffs = compact_diff( \@seq1, \@seq2 );
```

```

traverse_sequences(
  \@seq1,
  \@seq2,
  { MATCH    => \&callback1,
    DISCARD_A => \&callback2,
    DISCARD_B => \&callback3,
  },
  \&key_generator,
  @extra_args,
);

```

```

traverse_balanced(
  \@seq1,
  \@seq2,
  { MATCH    => \&callback1,
    DISCARD_A => \&callback2,
    DISCARD_B => \&callback3,
    CHANGE    => \&callback4,
  },
  \&key_generator,
  @extra_args,
);

```

=head1 INTRODUCTION

(by
Mark-Jason Dominus)

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

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

a b c d f g h j q z

a b c d e f g i j k r x y z

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

a b c d f g j z

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

e h i k q r x y
+ - + + - + + +

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

It might seem from the example above that the LCS of two sequences is always pretty obvious, but that's not always the case, especially when the two sequences have many repeated elements. For example, consider

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

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

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

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

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

or

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

=head1 USAGE

(See also the README file and several example scripts include with this module.)

This module now provides an object-oriented interface that uses less memory and is easier to use than most of the previous procedural interfaces. It also still provides several exportable functions. We'll deal with these in ascending

order of difficulty: C<LCS>, C<LCS_length>, C<LCSidx>, OO interface, C<prepare>, C<diff>, C<sdiff>, C<traverse_sequences>, and C<traverse_balanced>.

=head2 C<LCS>

Given references to two lists of items, LCS returns an array containing their longest common subsequence. In scalar context, it returns a reference to such a list.

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

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

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

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<LCS_length>

This is just like C<LCS> except it only returns the length of the longest common subsequence. This provides a performance gain of about 9% compared to C<LCS>.

=head2 C<LCSidx>

Like C<LCS> except it returns references to two arrays. The first array contains the indices into @seq1 where the LCS items are located. The second array contains the indices into @seq2 where the LCS items are located.

Therefore, the following three lists will contain the same values:

```
my( $idx1, $idx2 ) = LCSidx( \@seq1, \@seq2 );  
my @list1 = @seq1[ @idx1 ];  
my @list2 = @seq2[ @idx2 ];  
my @list3 = LCS( \@seq1, \@seq2 );
```

=head2 C<new>

```
$diff = Algorithm::Diffs->new( \@seq1, \@seq2 );  
$diff = Algorithm::Diffs->new( \@seq1, \@seq2, \%opts );
```

C<new> computes the smallest set of additions and deletions necessary to turn the first sequence into the second and compactly records them in the object.

You use the object to iterate over I<hunks>, where each hunk represents a contiguous section of items which should be added, deleted, replaced, or left unchanged.

=over 4

The following summary of all of the methods looks a lot like Perl code but some of the symbols have different meanings:

- [] Encloses optional arguments
- : Is followed by the default value for an optional argument
- | Separates alternate return results

Method summary:

```
$obj = Algorithm::Diff->new( \@seq1, \@seq2, [ \%opts ] );
$pos = $obj->Next( [ $count : 1 ] );
$revPos = $obj->Prev( [ $count : 1 ] );
$obj = $obj->Reset( [ $pos : 0 ] );
$copy = $obj->Copy( [ $pos, [ $newBase ] ] );
$oldBase = $obj->Base( [ $newBase ] );
```

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

```
$bits = $obj->Diff( );
@items| $cnt = $obj->Same( );
@items| $cnt = $obj->Items( $seqNum );
@idxs| $cnt = $obj->Range( $seqNum, [ $base ] );
$minIdx = $obj->Min( $seqNum, [ $base ] );
$maxIdx = $obj->Max( $seqNum, [ $base ] );
@values = $obj->Get( @names );
```

Passing in C<undef> for an optional argument is always treated the same as if no argument were passed in.

=item

C<Next>

```
$pos = $diff->Next(); # Move forward 1 hunk
$pos = $diff->Next( 2 ); # Move forward 2 hunks
$pos = $diff->Next(-5); # Move backward 5 hunks
```

C<Next> moves the object to point at the next hunk. The object starts out "reset", which means it isn't pointing at any hunk. If the object is reset, then C<Next()> moves to the first hunk.

C<Next> returns a true value iff the move didn't go past the last hunk.
So C<Next(0)> will return true iff the object is not reset.

Actually, C<Next> returns the object's new position, which is a number between 1 and the number of hunks (inclusive), or returns a false value.

=item C<Prev>

C<Prev(\$N)> is almost identical to C<Next(-\$N)>; it moves to the \$Nth previous hunk. On a 'reset' object, C<Prev()> [and C<Next(-1)>] move to the last hunk.

The position returned by C<Prev> is relative to the I<end> of the hunks; -1 for the last hunk, -2 for the second-to-last, etc.

=item C<Reset>

```
$diff->Reset(); # Reset the
object's position
$diff->Reset($pos); # Move to the specified hunk
$diff->Reset(1); # Move to the first hunk
$diff->Reset(-1); # Move to the last hunk
```

C<Reset> returns the object, so, for example, you could use
C<< \$diff->Reset()->Next(-1) >> to get the number of hunks.

=item C<Copy>

```
$copy = $diff->Copy( $newPos, $newBase );
```

C<Copy> returns a copy of the object. The copy and the original object share most of their data, so making copies takes very little memory. The copy maintains its own position (separate from the original), which is the main purpose of copies. It also maintains its own base.

By default, the copy's position starts out the same as the original object's position. But C<Copy> takes an optional first argument to set the new position, so the following three snippets are equivalent:

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

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

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

C<Copy> takes an optional second argument

to set the base for
the copy. If you wish to change the base of the copy but leave
the position the same as in the original, here are two
equivalent ways:

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

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

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

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

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

=item C<Diff>

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

C<Diff> returns a true value iff the current hunk contains items that are
different between the two sequences. It actually returns one of the
follow 4 values:

=over 4

=item 3

C<3==(1|2)>. This hunk contains items from @seq1 and the items
from @seq2 that should replace them. Both sequence 1 and 2
contain changed items so both the 1 and 2 bits are set.

=item 2

This hunk only contains items from @seq2 that should be inserted (not
items from @seq1). Only sequence 2 contains changed items so only the 2
bit is set.

=item 1

This hunk only contains items from @seq1 that should be deleted
(not
items from @seq2). Only sequence 1 contains changed items so only the 1
bit is set.

=item 0

This means that the items in this hunk are the same in both sequences.

Neither sequence 1 nor 2 contain changed items so neither the 1 nor the 2 bits are set.

=back

=item C<Same>

C<Same> returns a true value iff the current hunk contains items that are the same in both sequences. It actually returns the list of items if they are the same or an empty list if they aren't. In a scalar context, it returns the size of the list.

=item C<Items>

```
$count = $diff->Items(2);  
@items = $diff->Items($seqNum);
```

C<Items> returns the (number of) items from the specified sequence that are part of the current hunk.

If the current hunk contains only insertions, then

C<< \$diff->Items(1) >> will return an empty list (0 in a scalar context).

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

If the hunk contains replacements,

then both C<< \$diff->Items(1) >> and

C<< \$diff->Items(2) >> will return different, non-empty lists.

Otherwise, the hunk contains identical items and all of the following will return the same lists:

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

=item C<Range>

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

C<Range> is like C<Items> except that it returns a list of I<indices> to the items rather than the items themselves. By default, the index of the first item (in each sequence) is 0 but this can be changed by calling the C<Base> method. So, by default, the following two snippets return the same lists:

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

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

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

=item C<Base>

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

C<Base> sets and/or returns the current base (usually 0 or 1) that is used when you request range information. The base defaults to 0 so that range information is returned as array indices. You can set the base to 1 if you want to report traditional line numbers instead.

=item C<Min>

```
$min1 = $diff->Min(1);
$min = $diff->Min( $seqNum, $base );
```

C<Min> returns the first value that C<Range> would return (given the same arguments) or returns C<undef> if C<Range> would return an empty list.

=item C<Max>

C<Max> returns the last value that C<Range> would return or C<undef>.

=item C<Get>

```
( $n, $x, $r ) = $diff->Get(qw( min1 max1 range1 ));
@values = $diff->Get(qw( 0min2 1max2 range2 same base ));
```

C<Get> returns one or more scalar values. You pass in a list of the names of the values you want returned. Each name must match one of the following regexes:

```
/^(-?\d+)?(min|max)[12]$/i
/^(range[12]|same|diff|base)$/i
```

The 1 or 2 after a name says which sequence you want the information for (and where allowed, it is required). The optional number before "min" or "max" is the base to use. So the following equalities hold:

```
$diff->Get('min1') == $diff->Min(1)
$diff->Get('0min2') == $diff->Min(2,0)
```

Using C<Get> in a scalar context when you've passed in more than one name is a fatal error (C<die> is called).

```
=back
```

```
=head2 C<prepare>
```

Given a reference to a list of items, C<prepare> returns a reference to a hash which can be used when comparing this sequence to other sequences with C<LCS> or C<LCS_length>.

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

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

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

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

```
=head2 C<diff>
```

```
@diffs    = diff( \@seq1, \@seq2 );
$diffs_ref = diff( \@seq1, \@seq2 );
```

C<diff> computes the smallest set of additions and deletions necessary to turn the first sequence into the second, and returns a description of these changes. The description is a list of I<hunks>; each hunk represents a contiguous section of items which should be added, deleted, or replaced. (Hunks containing unchanged items are not included.)

The return value of `C<diff>` is a list of hunks, or, in scalar context, a reference to such a list. If there are no differences, the list will be empty.

Here is an example. Calling `C<diff>` for the following two sequences:

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

would produce the following list:

```
(
  [ [ '-', 0, 'a' ] ],

  [ [ '+', 2, 'd' ] ],

  [ [ '-', 4, 'h' ],
    [ '+', 4, 'f' ] ],

  [ [ '+', 6, 'k' ] ],

  [ [ '-', 8, 'n' ],
    [ '-', 9, 'p' ],
    [ '+', 9, 'r' ],
    [ '+', 10, 's' ],
    [ '+', 11, 't' ] ],
)
```

There are five hunks here. The first hunk says that the `C<a>` at position 0 of the first sequence should be deleted (`C<->`). The second hunk says that the `C<d>` at position 2 of the second sequence should be inserted (`C<+>`). The third hunk says that the `C<h>` at position 4 of the first sequence should be removed and replaced with the `C<f>` from position 4 of the second sequence. And so on.

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

Additional parameters, if any, will be passed to the key generation routine.

`=head2 C<sdiff>`

```
@sdiffs = sdiff( \@seq1, \@seq2 );
$sdiffs_ref = sdiff( \@seq1, \@seq2 );
```

C<sdiff>

computes all necessary components to show two sequences and their minimized differences side by side, just like the Unix-utility I<sdiff> does:

```
same      same
before   |   after
old      <   -
-        >   new
```

It returns a list of array refs, each pointing to an array of display instructions. In scalar context it returns a reference to such a list. If there are no differences, the list will have one entry per item, each indicating that the item was unchanged.

Display instructions consist of three elements: A modifier indicator (C<+>: Element added, C<->: Element removed, C<u>: Element unmodified, C<c>: Element changed) and the value of the old and new elements, to be displayed side-by-side.

An C<sdiff> of the following two sequences:

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

results in

```
( [ '-', 'a', " ],
  [ 'u', 'b', 'b' ],
  [ 'u', 'c', 'c' ],
  [ '+', " ", 'd' ],
  [ 'u', 'e', 'e' ],
  [ 'c', 'h', 'f' ],
  [ 'u', 'j', 'j' ],
  [ '+', " ", 'k' ],
  [ 'u', 'l', 'l' ],
  [ 'u', 'm', 'm' ],
  [ 'c', 'n', 'r' ],
  [ 'c', 'p', 's' ],
  [ '+', " ", 't' ],
)
```

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

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<compact_diff>

C<compact_diff> is much like C<sdiff> except it returns a much more compact description consisting of just one flat list of indices. An example helps explain the format:

```
my @a = qw( a b c e h j l m n p );
my @b = qw( b c d e f j k l m r s t );
@cdiff = compact_diff( \@a, \@b );
# Returns:
# @a @b @a @b
# start start values values
( 0, 0, # =
  0, 0, # a !
  1, 0, # b c = b c
  3, 2, # ! d
  3, 3, # e = e
  4, 4, # f ! h
  5, 5, # j = j
  6, 6, # ! k
  6, 7, # l m = l m
  8, 9, # n p ! r s t
  10, 12, #
);
```

The 0th, 2nd, 4th, etc. entries are all indices into @seq1 (@a in the above example) indicating where a hunk begins. The 1st, 3rd, 5th, etc. entries are all indices into @seq2 (@b in the above example) indicating where the same hunk begins.

So each pair of indices (except the last pair) describes where a hunk begins (in each sequence). Since each hunk must end at the item just before the item that starts the next hunk, the next pair of indices can be used to determine where the hunk ends.

So, the first 4 entries (0..3) describe the first hunk. Entries 0 and 1 describe where the first hunk begins (and so are always both 0). Entries 2 and 3 describe where the next hunk begins, so subtracting 1 from each tells us where the first hunk ends. That is, the first hunk contains items

C<\$diff[0]> through C<\$diff[2] - 1> of the first sequence
and contains items C<\$diff[1]> through C<\$diff[3] - 1> of the second sequence.

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

```
# 1st pair 2nd pair
```



```

# of indices  of indices
@list1 = @a[ $cdiff[0] .. $cdiff[2]-1 ];
@list2 = @b[ $cdiff[1] .. $cdiff[3]-1 ];
# Hunk start  Hunk end

```

Note that the hunks will always alternate between those that are part of the LCS (those that contain unchanged items) and those that contain changes. This means that all we need to be told is whether the first hunk is a 'same' or 'diff' hunk and we can determine which of the other hunks contain 'same' items or 'diff' items.

By convention, we always make the first hunk contain unchanged items. So the 1st, 3rd, 5th, etc. hunks (all odd-numbered hunks if you start counting from 1) all contain unchanged items. And the 2nd, 4th, 6th, etc. hunks (all even-numbered hunks if you start counting from 1) all contain changed items.

Since @a and @b don't begin with the same value, the first hunk in our example is empty (otherwise we'd violate the above convention). Note that the first 4 index values in our example are all zero. Plug these values into our previous code block and we get:

```

@hunk1a = @a[ 0 .. 0-1 ];
@hunk1b = @b[ 0 .. 0-1 ];

```

And C<0..-1> returns the empty list.

Move down one pair of indices (2..5) and we get the offset ranges for the second hunk, which contains changed items.

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

```

@hunk2a = @a[ $cdiff[2] .. $cdiff[4]-1 ];
@hunk2b = @b[ $cdiff[3] .. $cdiff[5]-1 ];
# or
@hunk2a = @a[ 0 .. 1-1 ];
@hunk2b = @b[ 0 .. 0-1 ];
# or
@hunk2a = @a[ 0 .. 0 ];
@hunk2b = @b[ 0 .. -1 ];
# or
@hunk2a = ( 'a' );
@hunk2b = ( );

```

That is, we would delete item 0 ('a')

from @a.

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

```
@hunk3a = @a[ $cdiff[4] .. $cdiff[6]-1 ];
@hunk3a = @b[ $cdiff[5] .. $cdiff[7]-1 ];
# or
@hunk3a = @a[ 1 .. 3-1 ];
@hunk3a = @b[ 0 .. 2-1 ];
# or
@hunk3a = @a[ 1 .. 2 ];
@hunk3a = @b[ 0 .. 1 ];
# or
@hunk3a = qw( b c );
@hunk3a = qw( b c );
```

Note that this third hunk contains unchanged items as our convention demands.

You can continue this process until you reach the last two indices, which will always be the number of items in each sequence. This is required so that subtracting one from each will give you the indices to the last items in each sequence.

`=head2 C<traverse_sequences>`

`C<traverse_sequences>` used to be the most general facility provided by this module (the new OO interface is more powerful and much easier to use).

Imagine that there are two arrows. Arrow A points to an element of sequence A, and arrow B points to an element of the sequence B. Initially, the arrows point to the first elements of the respective sequences. `C<traverse_sequences>` will advance the arrows through the sequences one element at a time, calling an appropriate user-specified callback function before each advance. It will advance the arrows in such a way that if there are equal elements `C<$A[$i]>` and `C<$B[$j]>` which are equal and which are part of the LCS, there will be some moment during the execution of `C<traverse_sequences>` when arrow A is pointing to `C<$A[$i]>` and arrow B is pointing to `C<$B[$j]>`. When this happens, `C<traverse_sequences>` will call the `C<MATCH>` callback function and then it will advance both arrows.

Otherwise, one of the arrows is pointing to an element of its sequence that is not part of the LCS. `C<traverse_sequences>` will advance that arrow and will call the `C<DISCARD_A>` or the `C<DISCARD_B>` callback, depending on which arrow it advanced. If both arrows point

to elements
that are not part of the LCS, then C<traverse_sequences> will advance
one of them and call the appropriate callback, but it is not specified
which it will call.

The arguments to C<traverse_sequences> are the two sequences to
traverse, and a hash which specifies the callback functions, like this:

```
traverse_sequences(  
  \@seq1, \@seq2,  
  { MATCH => $callback_1,  
    DISCARD_A => $callback_2,  
    DISCARD_B => $callback_3,  
  }  
);
```

Callbacks for MATCH, DISCARD_A, and DISCARD_B are invoked with at least
the indices of the two arrows as their arguments. They are not expected
to return any values. If a callback is omitted from the table, it is
not called.

Callbacks for A_FINISHED and B_FINISHED are invoked with at least the
corresponding index in A or B.

If arrow A reaches the end of its sequence, before arrow B does,
C<traverse_sequences> will call the C<A_FINISHED> callback when it
advances arrow B, if there is such a function;
if not it will call
C<DISCARD_B> instead. Similarly if arrow B finishes first.
C<traverse_sequences> returns when both arrows are at the ends of their
respective sequences. It returns true on success and false on failure.
At present there is no way to fail.

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

Additional parameters, if any, will be passed to the key generation function.

If you want to pass additional parameters to your callbacks, but don't
need a custom key generation function, you can get the default by
passing undef:

```
traverse_sequences(  
  \@seq1, \@seq2,  
  { MATCH => $callback_1,  
    DISCARD_A => $callback_2,  
    DISCARD_B => $callback_3,
```

```

    },
    undef,    # default key-gen
    $myArgument1,
    $myArgument2,
    $myArgument3,
  );

```

C<traverse_sequences> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head2 C<traverse_balanced>

C<traverse_balanced> is an alternative to C<traverse_sequences>. It uses a different algorithm to iterate through the entries in the computed LCS. Instead of sticking to one side and showing element changes as insertions and deletions only, it will jump back and forth between the two sequences and report I<changes> occurring as deletions on one side followed immediately by an insertion on the other side.

In addition to the C<DISCARD_A>, C<DISCARD_B>, and C<MATCH> callbacks supported by C<traverse_sequences>, C<traverse_balanced> supports a C<CHANGE> callback indicating that one element got C<replaced> by another:

```

traverse_balanced(
  \@seq1, \@seq2,
  { MATCH => $callback_1,
    DISCARD_A => $callback_2,
    DISCARD_B => $callback_3,
    CHANGE  => $callback_4,
  }
);

```

If no C<CHANGE> callback is specified, C<traverse_balanced> will map C<CHANGE> events to C<DISCARD_A> and C<DISCARD_B> actions, therefore resulting in a similar behaviour as C<traverse_sequences> with different order of events.

C<traverse_balanced> might be a bit slower than C<traverse_sequences>, noticeable only while processing huge amounts of data.

The C<sdiff> function of this module is implemented as call to C<traverse_balanced>.

C<traverse_balanced> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head1 KEY GENERATION FUNCTIONS

Most of the functions accept an optional extra parameter. This is a CODE reference to a key generating (hashing) function that should return a string that uniquely identifies a given element. It should be the case that if two elements are to be considered equal, their keys should be the same (and the other way around). If no key generation function is provided, the key will be the element as a string.

By default, comparisons will use "eq"
and elements will be turned into keys
using the default stringizing operator "".

Where this is important is when you're comparing something other than strings. If it is the case that you have multiple different objects that should be considered to be equal, you should supply a key generation function. Otherwise, you have to make sure that your arrays contain unique references.

For instance, consider this example:

```
package Person;

sub new
{
    my $package = shift;
    return bless { name => "", ssn => "", @_ }, $package;
}

sub clone
{
    my $old = shift;
    my $new = bless { %$old }, ref($old);
}

sub hash
{
    return shift()->{'ssn'};
}

my $person1 = Person->new( name => 'Joe', ssn => '123-45-6789' );
my $person2 = Person->new( name => 'Mary', ssn => '123-47-0000' );
my $person3 = Person->new( name => 'Pete', ssn => '999-45-2222' );
my $person4 = Person->new( name => 'Peggy', ssn => '123-45-9999' );
);
my $person5 = Person->new( name => 'Frank', ssn => '000-45-9999' );
```

If you did this:

```
my $array1 = [ $person1, $person2, $person4 ];  
my $array2 = [ $person1, $person3, $person4, $person5 ];  
Algorithm::Diff::diff( $array1, $array2 );
```

everything would work out OK (each of the objects would be converted into a string like "Person=HASH(0x82425b0)" for comparison).

But if you did this:

```
my $array1 = [ $person1, $person2, $person4 ];  
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];  
Algorithm::Diff::diff( $array1, $array2 );
```

\$person4 and \$person4->clone() (which have the same name and SSN) would be seen as different objects. If you wanted them to be considered equivalent, you would have to pass in a key generation function:

```
my $array1 = [ $person1, $person2, $person4 ];  
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];  
Algorithm::Diff::diff( $array1, $array2, \&Person::hash );
```

This would use the 'ssn' field in each Person as a comparison key, and so would consider \$person4 and \$person4->clone() as equal.

You may also pass additional parameters to the key generation function if you wish.

=head1 ERROR CHECKING

If you pass these routines a non-reference and they expect a reference, they will die with a message.

=head1 AUTHOR

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

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=head1 MAILING LIST

Mark-Jason still maintains a mailing list. To join a low-volume mailing list for announcements related to diff and Algorithm::Diff, send an empty mail message to mjd-perl-diff-request@plover.com.

=head1 CREDITS

Versions through 0.59 (and much of this documentation) were written by:

Mark-Jason Dominus, mjd-perl-diff@plover.com

This version borrows some documentation and routine names from Mark-Jason's, but Diff.pm's code was completely replaced.

This code was adapted from the Smalltalk code of Mario Wolczko <mario@wolczko.com>, which is available at <ftp://st.cs.uiuc.edu/pub/Smalltalk/MANCHESTER/manchester/4.0/diff.st>

C<sdiff> and C<traverse_balanced> were written by Mike Schilli <m@perlmeister.com>.

The algorithm is that described in I<A Fast Algorithm for Computing Longest Common Subsequences>, CACM, vol.20, no.5, pp.350-353, May 1977, with a few minor improvements to improve the speed.

Much work was done by Ned Konz (perl@bike-nomad.com).

The OO interface and some other changes are by Tye McQueen.

=cut

Found in path(s):

* /libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/lib/Algorithm/Diff.pm

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

abstract: unknown

author:

- unknown

build_requires:

ExtUtils::MakeMaker: '0'

configure_requires:

ExtUtils::MakeMaker: '0'

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 6.98, CPAN::Meta::Converter version 2.141170'

license: unknown

meta-spec:
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>
version: '1.4'
name: Algorithm-Diff
no_index:
directory:
- t
- inc
requires: {}
version: '1.1903'

Found in path(s):
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1.155 python-distro 1.4.0-1

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Thanks!

* <https://github.com/andy-maier>
* <https://github.com/SethMichaelLarson>
* <https://github.com/asottile>
* <https://github.com/MartijnBraam>
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1.163 python-certifi 2019.11.28-1

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>
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@(#) \$RCSfile: certdata.txt,v \$

1.164 usb-ids 2020.03.19-1

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

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Any executables

containing that work also fall under Section 6,
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1.177 btrfs-progs 5.4.1-2

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1.183 libutempter 1.1.6-4

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=head1 NAME

HTML::Parser - HTML parser class

=head1 SYNOPSIS

```
use HTML::Parser ();
```

```
# Create parser object
```

```
$p = HTML::Parser->new( api_version => 3,  
                        start_h => [\&start, "tagname", attr"],  
                        end_h  => [\&end, "tagname"],  
                        marked_sections => 1,  
                        );
```

```
# Parse document text chunk by chunk
```

```
$p->parse($chunk1);
```

```
$p->parse($chunk2);
```

```
#...
```

```
$p->eof;          # signal end of document
```

```
# Parse directly from file
```

```
$p->parse_file("foo.html");
```

```
# or
```

```
open(my $fh, "<:utf8", "foo.html") || die;
```

```
$p->parse_file($fh);
```

=head1 DESCRIPTION

Objects of the C<HTML::Parser> class will recognize markup and separate it from plain text (alias data content) in HTML documents. As different kinds of markup and text are recognized, the corresponding event handlers are invoked.

C<HTML::Parser> is not a generic SGML parser. We have tried to make it able to deal with the HTML that is actually "out there", and it normally parses as closely as possible to the way the popular web browsers do it instead of strictly following one of the many HTML specifications from W3C. Where there is disagreement, there is often an option that you can enable to get the official behaviour.

The document to be parsed may be supplied in arbitrary chunks. This makes on-the-fly parsing as documents are received from the network possible.

If event driven parsing does not feel right for your application, you might want to use `C<HTML::PullParser>`. This is an `C<HTML::Parser>` subclass that allows a more conventional program structure.

=head1 METHODS

The following method is used to construct a new `C<HTML::Parser>` object:

=over

```
=item $p = HTML::Parser->new( %options_and_handlers )
```

This class method creates a new `C<HTML::Parser>` object and returns it. Key/value argument pairs may be provided to assign event handlers or initialize parser options.

The handlers and parser options can also be set or modified later by the method calls described below.

If a top level key is in the form "`<event>_h`" (e.g., "`text_h`") then it assigns a handler to that event, otherwise it initializes a parser option. The event handler specification value must be an array reference. Multiple handlers may also be assigned with the '`handlers`' => [`%handlers`]' option. See examples below.

If `new()` is called without any arguments, it will create a parser that uses callback methods compatible with version 2 of `C<HTML::Parser>`. See the section on "version 2 compatibility" below for details.

The special constructor option '`api_version => 2`' can be used to initialize version 2 callbacks while still setting other options and handlers. The '`api_version => 3`' option can be used if you don't want to set any options and don't want to fall back to v2 compatible mode.

Examples:

```
$p = HTML::Parser->new(api_version => 3,  
                      text_h => [ sub  
    {...}, "dtext" ] );
```

This creates a new parser object with a text event handler subroutine that receives the original text with general entities decoded.

```
$p = HTML::Parser->new(api_version => 3,
    start_h => [ 'my_start', "self,tokens" ]);
```

This creates a new parser object with a start event handler method that receives the \$p and the tokens array.

```
$p = HTML::Parser->new(api_version => 3,
    handlers => { text => [ \@array, "event,text"],
                  comment => [ \@array, "event,text"],
                });
```

This creates a new parser object that stores the event type and the original text in @array for text and comment events.

=back

The following methods feed the HTML document to the C<HTML::Parser> object:

=over

```
=item $p->parse( $string )
```

Parse \$string as the next chunk of the HTML document. Handlers invoked should not attempt to modify the \$string in-place until \$p->parse returns.

If an invoked event handler aborts parsing by calling \$p->eof, then \$p->parse() will return a FALSE value. Otherwise the return value is a reference to the parser object (\$p).

```
=item $p->parse( $code_ref )
```

If a code reference is passed as the argument to be parsed, then the chunks to be parsed are obtained by invoking this function repeatedly. Parsing continues until the function returns an empty (or undefined) result. When this happens \$p->eof is automatically signaled.

Parsing will also abort if one of the event handlers calls \$p->eof.

The effect of this is the same as:

```
while (1) {
    my $chunk = &$code_ref();
    if (!defined($chunk) || !length($chunk)) {
        $p->eof;
        return $p;
    }
}
```

```
$p->parse($chunk) || return undef;  
}
```

But it is more efficient as this loop runs internally in XS code.

```
=item $p->parse_file( $file )
```

Parse text directly from a file. The `$file` argument can be a filename, an open file handle, or a reference to an open file handle.

If `$file` contains a filename and the file can't be opened, then the method returns an undefined value and `$!` tells why it failed. Otherwise the return value is a reference to the parser object.

If a file handle is passed as the `$file` argument, then the file will normally be read until EOF, but not closed.

If an invoked event handler aborts parsing by calling `$p->eof`, then `$p->parse_file()` may not have read the entire file.

On systems with multi-byte line terminators, the values passed for the offset and length argspecs may be too low if `parse_file()` is called on a file handle that is not in binary mode.

If a filename is passed in, then `parse_file()` will open the file in binary mode.

```
=item $p->eof
```

Signals the end of the HTML document. Calling the `$p->eof` method outside a handler callback will flush any remaining buffered text (which triggers the `C<text>` event if there is any remaining text).

Calling `$p->eof` inside a handler will terminate parsing at that point and cause `$p->parse` to return a `FALSE` value. This also terminates parsing by `$p->parse_file()`.

After `$p->eof` has been called, the `parse()` and `parse_file()` methods can be invoked to feed new documents with the parser object.

The return value from `eof()` is a reference to the parser object.

```
=back
```

Most parser options are controlled by boolean attributes.

Each boolean attribute is enabled by calling the corresponding method with a TRUE argument and disabled with a FALSE argument. The attribute value is left unchanged if no argument is given. The return value from each method is the old attribute value.

Methods that can be used to get and/or set parser options are:

=over

=item \$p->attr_encoded

=item \$p->attr_encoded(\$bool)

By default, the C<attr> and C<@attr> argspecs will have general entities for attribute values decoded. Enabling this attribute leaves entities alone.

=item \$p->backquote

=item \$p->backquote(\$bool)

By default, only ' and " are recognized as quote characters around attribute values. MSIE also recognizes backquotes for some reason.

Enabling this attribute provides compatibility with this behaviour.

=item \$p->boolean_attribute_value(\$val)

This method sets the value reported for boolean attributes inside HTML start tags. By default, the name of the attribute is also used as its value. This affects the values reported for C<tokens> and C<attr> argspecs.

=item \$p->case_sensitive

=item \$p->case_sensitive(\$bool)

By default, tagnames and attribute names are down-cased. Enabling this attribute leaves them as found in the HTML source document.

=item \$p->closing_plaintext

=item \$p->closing_plaintext(\$bool)

By default, "plaintext" element can never be closed. Everything up to the end of the document is parsed in CDATA mode. This historical behaviour is what at least MSIE does. Enabling this attribute makes

closing "</plaintext>" tag effective and the parsing process will resume after seeing this tag. This emulates early gecko-based browsers.

```
=item $p->empty_element_tags
```

```
=item $p->empty_element_tags(  
$bool )
```

By default, empty element tags are not recognized as such and the "/" before ">" is just treated like a normal name character (unless C<strict_names> is enabled). Enabling this attribute make C<HTML::Parser> recognize these tags.

Empty element tags look like start tags, but end with the character sequence ">" instead of ">". When recognized by C<HTML::Parser> they cause an artificial end event in addition to the start event. The C<text> for the artificial end event will be empty and the C<tokenpos> array will be undefined even though the token array will have one element containing the tag name.

```
=item $p->marked_sections
```

```
=item $p->marked_sections( $bool )
```

By default, section markings like <![CDATA[...]]> are treated like ordinary text. When this attribute is enabled section markings are honoured.

There are currently no events associated with the marked section markup, but the text can be returned as C<skipped_text>.

```
=item $p->strict_comment
```

```
=item $p->strict_comment(  
$bool )
```

By default, comments are terminated by the first occurrence of "-->". This is the behaviour of most popular browsers (like Mozilla, Opera and MSIE), but it is not correct according to the official HTML standard. Officially, you need an even number of "--" tokens before the closing ">" is recognized and there may not be anything but whitespace between an even and an odd "--".

The official behaviour is enabled by enabling this attribute.

Enabling of 'strict_comment' also disables recognizing these forms as comments:

</ comment>

<! comment>

=item \$p->strict_end

=item \$p->strict_end(\$bool)

By default, attributes and other junk are allowed to be present on end tags in a manner that emulates MSIE's behaviour.

The official behaviour is enabled with this attribute. If enabled, only whitespace is allowed between the tagname and the final ">".

=item \$p->strict_names

=item \$p->strict_names(\$bool)

By default, almost anything is allowed in tag and attribute names.

This is the behaviour of most popular browsers and allows us to parse some broken tags with invalid attribute values like:

```
<IMG SRC=newprevlstGr.gif ALT=[PREV LIST] BORDER=0>
```

By default, "LIST]" is parsed as a boolean attribute, not as part of the ALT value as was clearly intended. This is also what Mozilla sees.

The official behaviour is enabled by enabling this attribute. If enabled, it will cause the tag above to be reported as text since "LIST]" is not a legal attribute name.

=item \$p->unbroken_text

=item \$p->unbroken_text(\$bool)

By default, blocks of text are given to the text handler as soon as possible (but the parser takes care always to break text at a boundary between whitespace and non-whitespace so single words and entities can always be decoded safely). This might create breaks that make it hard to do transformations on the text. When this attribute is enabled, blocks of text are always reported in one piece. This will delay the text event until the following (non-text) event has been recognized by the parser.

Note that the C<offset> argspec will give you the offset of the first

segment of text and C<length> is the combined length of the segments. Since there might be ignored tags in between, these numbers can't be used to directly index in the original document file.

=item \$p->utf8_mode

=item \$p->utf8_mode(\$bool)

Enable this option when parsing raw undecoded UTF-8. This tells the parser that the entities expanded for strings reported by C<attr>, C<@attr> and C<dtext> should be expanded as decoded UTF-8 so they end up compatible with the surrounding text.

If C<utf8_mode> is enabled then it is an error to pass strings containing characters with code above 255 to the parse() method, and the parse() method will croak if you try.

Example: The Unicode character "\x{2665}" is "\xE2\x99\xA5" when UTF-8 encoded. The character can also be represented by the entity "♥" or "&#x2665". If we feed the parser:

```
$p->parse("\xE2\x99\xA5&hearts;");
```

then

C<dtext> will be reported as "\xE2\x99\xA5\x{2665}" without C<utf8_mode> enabled, but as "\xE2\x99\xA5\xE2\x99\xA5" when enabled. The later string is what you want.

This option is only available with perl-5.8 or better.

=item \$p->xml_mode

=item \$p->xml_mode(\$bool)

Enabling this attribute changes the parser to allow some XML constructs. This enables the behaviour controlled by individually by the C<case_sensitive>, C<empty_element_tags>, C<strict_names> and C<xml_pic> attributes and also suppresses special treatment of elements that are parsed as CDATA for HTML.

=item \$p->xml_pic

=item \$p->xml_pic(\$bool)

By default, I<processing instructions> are terminated by ">". When this attribute is enabled, processing instructions are terminated by "?>" instead.

=back

As markup and text is recognized, handlers are invoked. The following method is used to set up handlers for different events:

=over

=item \$p->handler(event => \&subroutine, \$argspec)

=item

\$p->handler(event => \$method_name, \$argspec)

=item \$p->handler(event => \@accum, \$argspec)

=item \$p->handler(event => "");

=item \$p->handler(event => undef);

=item \$p->handler(event);

This method assigns a subroutine, method, or array to handle an event.

Event is one of C<text>, C<start>, C<end>, C<declaration>, C<comment>, C<process>, C<start_document>, C<end_document> or C<default>.

The C<\&subroutine> is a reference to a subroutine which is called to handle the event.

The C<\$method_name> is the name of a method of \$p which is called to handle the event.

The C<@accum> is an array that will hold the event information as sub-arrays.

If the second argument is "", the event is ignored.

If it is undef, the default handler is invoked for the event.

The C<\$argspec> is a string that describes the information to be reported for the event. Any requested information that does not apply to a specific event is passed as C<undef>. If argspec is omitted, then it is left unchanged.

The

return value from \$p->handler is the old callback routine or a reference to the accumulator array.

Any return values from handler callback routines/methods are always ignored. A handler callback can request parsing to be aborted by

invoking the `$p->eof` method. A handler callback is not allowed to invoke the `$p->parse()` or `$p->parse_file()` method. An exception will be raised if it tries.

Examples:

```
$p->handler(start => "start", 'self, attr, attrseq, text');
```

This causes the "start" method of object `$p` to be called for 'start' events. The callback signature is `$p->start(\%attr, \@attr_seq, $text)`.

```
$p->handler(start => \&start, 'attr, attrseq, text');
```

This causes subroutine `start()` to be called for 'start' events. The callback signature is `start(\%attr, \@attr_seq, $text)`.

```
$p->handler(start => \@accum, "S", attr, attrseq, text');
```

This causes 'start' event information to be saved in `@accum`. The array elements will be `['S', \%attr, \@attr_seq, $text]`.

```
$p->handler(start => "");
```

This causes 'start' events to be ignored. It also suppresses invocations of any default handler for start events. It is in most cases equivalent to `$p->handler(start => sub {})`, but is more efficient. It is different from the empty-sub-handler in that `C<skipped_text>` is not reset by it.

```
$p->handler(start => undef);
```

This causes no handler to be associated with start events. If there is a default handler it will be invoked.

=back

Filters based on tags can be set up to limit the number of events reported. The main bottleneck during parsing is often the huge number of callbacks made from the parser. Applying filters can improve performance significantly.

The following methods control filters:

=over

=item `$p->ignore_elements( @tags )`

Both the `C<start>` event and the `C<end>` event as well as any events that

would be reported in between are suppressed. The ignored elements can contain nested occurrences of itself. Example:

```
$p->ignore_elements(qw(script
style));
```

The C<script> and C<style> tags will always nest properly since their content is parsed in CDATA mode. For most other tags C<ignore_elements> must be used with caution since HTML is often not I<well formed>.

```
=item $p->ignore_tags( @tags )
```

Any C<start> and C<end> events involving any of the tags given are suppressed. To reset the filter (i.e. don't suppress any C<start> and C<end> events), call C<ignore_tags> without an argument.

```
=item $p->report_tags( @tags )
```

Any C<start> and C<end> events involving any of the tags I<not> given are suppressed. To reset the filter (i.e. report all C<start> and C<end> events), call C<report_tags> without an argument.

```
=back
```

Internally, the system has two filter lists, one for C<report_tags> and one for C<ignore_tags>, and both filters are applied. This effectively gives C<ignore_tags> precedence over C<report_tags>.

Examples:

```
$p->ignore_tags(qw(style));
$p->report_tags(qw(script style));
```

results in only C<script> events being reported.

```
=head2 Argspec
```

Argspec is a string containing a comma-separated list that describes the information reported by the event. The following argspec identifier names can be used:

```
=over
```

```
=item C<attr>
```

Attr causes a reference to a hash of attribute name/value pairs to be

passed.

Boolean attributes' values are either the value set by `$p->boolean_attribute_value`, or the attribute name if no value has been set by `$p->boolean_attribute_value`.

This passes undef except for C<start> events.

Unless C<xml_mode> or C<case_sensitive> is enabled, the attribute names are forced to lower case.

General entities are decoded in the attribute values and one layer of matching quotes enclosing the attribute values is removed.

The Unicode character set is assumed for entity decoding.

=item C<@attr>

Basically the same as C<attr>, but keys and values are passed as individual arguments and the original sequence of the attributes is kept. The parameters passed will be the same as the @attr calculated here:

```
@attr = map { $_ => $attr->{$_} } @$attrseq;
```

assuming \$attr and \$attrseq here are the hash and array passed as the result of C<attr> and C<attrseq> argspecs.

This passes no values for events besides C<start>.

=item C<attrseq>

Attrseq causes a reference to an array of attribute names to be passed. This can be useful if you want to walk the C<attr> hash in the original sequence.

This passes undef except for C<start> events.

Unless C<xml_mode> or C<case_sensitive> is enabled, the attribute names are forced to lower case.

=item C<column>

Column causes the column number of the start of the event to be passed. The first column on a line is 0.

=item C<dtext>

Dtext causes the decoded text to be passed. General entities are automatically decoded unless the event was inside a CDATA section or was between literal start and end tags (C<script>, C<style>, C<xmp>, C<iframe>, C<title>, C<textarea> and C<plaintext>).

The Unicode character set is assumed for entity decoding. With Perl version 5.6 or earlier only the Latin-1 range is supported, and entities for characters outside the range 0..255 are left unchanged.

This passes undef except for C<text> events.

=item C<event>

Event causes the event name to be passed.

The event name is one of C<text>, C<start>, C<end>, C<declaration>, C<comment>, C<process>, C<start_document> or C<end_document>.

=item C<is_cdata>

Is_cdata causes a TRUE value to be passed if the event is inside a CDATA section or between literal start and end tags (C<script>, C<style>, C<xmp>, C<iframe>, C<title>, C<textarea> and C<plaintext>).

if the flag is FALSE for a text event, then you should normally either use C<dtext> or decode the entities yourself before the text is processed further.

=item C<length>

Length causes the number of bytes of the source text of the event to be passed.

=item C<line>

Line causes the line number of the start of the event to be passed. The first line in the document is 1. Line counting doesn't start until at least one handler requests this value to be reported.

=item C<offset>

Offset causes the byte position in the HTML document of the start of the event to be passed. The first byte in the document has offset 0.

=item C<offset_end>

Offset_end causes the byte position in the HTML document of the end of the event to be passed. This is the same as C<offset> + C<length>.

=item C<self>

Self causes the current object to be passed to the handler. If the handler is a method, this must be the first element in the argspec.

An alternative to passing self as an argspec is to register closures that capture \$self by themselves as handlers. Unfortunately this creates circular references which prevent the HTML::Parser object from being garbage collected. Using the C<self> argspec avoids this problem.

=item C<skipped_text>

Skipped_text returns the concatenated text of all the events that have been skipped since the last time an event was reported. Events might be skipped because no handler is registered for them or because some filter applies. Skipped text also includes marked section markup, since there are no events that can catch it.

If an C<"">-handler is registered for an event, then the text for this event is not included in C<skipped_text>. Skipped text both before and after the C<"">-event is included in the next reported C<skipped_text>.

=item C<tag>

Same as C<tagname>, but prefixed with "/" if it belongs to an C<end> event and "!" for a declaration. The C<tag> does not have any prefix for C<start> events, and is in this case identical to C<tagname>.

=item C<tagname>

This is the element name (or I<generic identifier> in SGML jargon) for start and end tags. Since HTML is case insensitive, this name is forced to lower case to ease string matching.

Since XML is case sensitive, the tagname case is not changed when C<xml_mode> is enabled. The same happens if the C<case_sensitive> attribute is set.

The declaration type of declaration elements is also passed as a tagname, even if that is a bit strange.

In fact, in the current implementation tagname is identical to C<token0> except that the name may be forced to lower case.

=item C<token0>

Token0 causes the original text of the first token string to be passed. This should always be the same as \$tokens->[0].

For C<declaration> events, this is the declaration type.

For C<start> and C<end> events, this is the tag name.

For C<process> and non-strict C<comment> events, this is everything inside the tag.

This passes undef if there are no tokens in the event.

=item C<tokenpos>

Tokenpos causes a reference to an array of token positions to be passed. For each string that appears in C<tokens>, this array contains two numbers. The first number is the offset of the start of the token in the original C<text> and the second number is the length of the token.

Boolean attributes in a C<start> event will have (0,0) for the attribute value offset and length.

This
passes undef if there are no tokens in the event (e.g., C<text>)
and for artificial C<end> events triggered by empty element tags.

If you are using these offsets and lengths to modify C<text>, you should either work from right to left, or be very careful to calculate the changes to the offsets.

=item C<tokens>

Tokens causes a reference to an array of token strings to be passed. The strings are exactly as they were found in the original text, no decoding or case changes are applied.

For C<declaration> events, the array contains each word, comment, and delimited string starting with the declaration type.

For C<comment> events, this contains each sub-comment. If \$p->strict_comments is disabled, there will be only one sub-comment.

For C<start> events, this contains the original tag name followed by the attribute name/value pairs. The values of boolean attributes will be either the value set by \$p->boolean_attribute_value, or the attribute name if no value has been set by \$p->boolean_attribute_value.

For

C<end> events, this contains the original tag name (always one token).

For C<process> events, this contains the process instructions (always one token).

This passes C<undef> for C<text> events.

=item C<text>

Text causes the source text (including markup element delimiters) to be passed.

=item C<undef>

Pass an undefined value. Useful as padding where the same handler routine is registered for multiple events.

=item C<'... '>

A literal string of 0 to 255 characters enclosed in single (') or double (") quotes is passed as entered.

=back

The whole argspec string can be wrapped up in C<'@{...}'> to signal that the resulting event array should be flattened. This only makes a difference if an array reference is used as the handler target.

Consider this example:

```
$p->handler(text => [], 'text');  
$p->handler(text => [], '@{text}');
```

With two text events; C<"foo">, C<"bar">; then the first example will end up with [["foo"], ["bar"]] and the second with ["foo", "bar"] in the handler target array.

=head2 Events

Handlers for the following events can be registered:

=over

=item C<comment>

This event is triggered when a markup comment is recognized.

Example:

```
<!-- This is a comment -- -- So is this -->
```

=item C<declaration>

This event is triggered when a I<markup declaration> is recognized.

For typical HTML documents, the only declaration you are likely to find is <!DOCTYPE ...>.

Example:

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"
    "http://www.w3.org/TR/html4/strict.dtd">
```

DTDs inside <!DOCTYPE ...> will confuse HTML::Parser.

=item C<default>

This event is triggered for events that do not have a specific handler. You can set up a handler for this event to catch stuff you did not want to catch explicitly.

=item C<end>

This event is triggered when an end tag is recognized.

Example:

```
</A>
```

=item C<end_document>

This event is triggered when \$p->eof is called and after any remaining text is flushed. There is no document text associated with this event.

=item C<process>

This event is triggered when a processing instructions markup is

recognized.

The format and content of processing instructions are system and application dependent.

Examples:

```
<? HTML processing instructions >
```

```
<? XML processing instructions ?>
```

=item C<start>

This event is triggered when a start tag is recognized.

Example:

```
<A HREF="http://www.perl.com/">
```

=item C<start_document>

This event is triggered before any other events for a new document. A handler for it can be used to initialize stuff. There is no document text associated with this event.

=item C<text>

This event is triggered when plain text (characters) is recognized. The text may contain multiple lines. A sequence of text may be broken between several text events unless `$p->unbroken_text` is enabled.

The parser will make sure that it does not break a word or a sequence of whitespace between two text events.

=back

=head2 Unicode

C<HTML::Parser>

can parse Unicode strings when running under perl-5.8 or better. If Unicode is passed to `$p->parse()` then chunks of Unicode will be reported to the handlers. The offset and length argspecs will also report their position in terms of characters.

It is safe to parse raw undecoded UTF-8 if you either avoid decoding entities and make sure to not use I<argspecs> that do, or enable the C<utf8_mode> for the parser. Parsing of undecoded UTF-8 might be useful when parsing from a file where you need the reported offsets and lengths to match the byte offsets in the file.

If a filename is passed to `$p->parse_file()` then the file will be read in binary mode. This will be fine if the file contains only ASCII or Latin-1 characters. If the file contains UTF-8 encoded text then care must be taken when decoding entities as described in the previous paragraph, but better is to open the file with the UTF-8 layer so that it is decoded properly:

```
open(my $fh, "<:utf8", "index.html") || die "...:
$!";
$p->parse_file($fh);
```

If the file contains text encoded in a charset besides ASCII, Latin-1 or UTF-8 then decoding will always be needed.

=head1 VERSION 2 COMPATIBILITY

When an `C<HTML::Parser>` object is constructed with no arguments, a set of handlers is automatically provided that is compatible with the old `HTML::Parser` version 2 callback methods.

This is equivalent to the following method calls:

```
$p->handler(start => "start", "self, tagname, attr, attrseq, text");
$p->handler(end   => "end",   "self, tagname, text");
$p->handler(text  => "text",  "self, text, is_cdata");
$p->handler(process => "process", "self, token0, text");
$p->handler(comment =>
    sub {
        my($self, $tokens) = @_;
        for (@$tokens) {$self->comment($_);},
        "self, tokens");
$p->handler(declaration =>
    sub {
        my $self = shift;
        $self->declaration(substr($_[0], 2, -1));},
    "self, text");
```

Setting up these handlers can also be requested with the `"api_version => 2"` constructor option.

=head1 SUBCLASSING

The `C<HTML::Parser>` class is subclassable. Parser objects are plain hashes and `C<HTML::Parser>` reserves only hash keys that start with `"_hparser"`. The parser state can be set up by invoking the `init()` method, which takes the same arguments as `new()`.

=head1 EXAMPLES

The first simple example shows how you might strip out comments from an HTML document. We achieve this by setting up a comment handler that does nothing and a default handler that will print out anything else:

```
use HTML::Parser;
HTML::Parser->new(default_h => [sub { print shift }, 'text'],
    comment_h => [""],
    )->parse_file(shift || die) || die $!;
```

An alternative implementation is:

```
use HTML::Parser;
HTML::Parser->new(end_document_h => [sub { print shift },
    'skipped_text'],
    comment_h => [""],
    )->parse_file(shift ||
die) || die $!;
```

This will in most cases be much more efficient since only a single callback will be made.

The next example prints out the text that is inside the <title> element of an HTML document. Here we start by setting up a start handler. When it sees the title start tag it enables a text handler that prints any text found and an end handler that will terminate parsing as soon as the title end tag is seen:

```
use HTML::Parser ();

sub start_handler
{
    return if shift ne "title";
    my $self = shift;
    $self->handler(text => sub { print shift }, "dtext");
    $self->handler(end => sub { shift->eof if shift eq "title"; },
        "tagname,self");
}

my $p = HTML::Parser->new(api_version => 3);
$p->handler( start => \&start_handler, "tagname,self");
$p->parse_file(shift || die) || die $!;
print "\n";
```

More examples are found in the F<eg/> directory of the C<HTML-Parser> distribution: the program C<hrefsub> shows how you can edit all links

found in a document;

the program C<htextsub> shows how to edit the text only; the program C<hstrip> shows how you can strip out certain tags/elements and/or attributes; and the program C<htext> show how to obtain the plain text, but not any script/style content.

You can browse the F<eg/> directory online from the I<[Browse]> link on the <http://search.cpan.org/~gaas/HTML-Parser/> page.

=head1 BUGS

The <style> and <script> sections do not end with the first "</", but need the complete corresponding end tag. The standard behaviour is not really practical.

When the I<strict_comment> option is enabled, we still recognize comments where there is something other than whitespace between even and odd "--" markers.

Once \$p->boolean_attribute_value has been set, there is no way to restore the default behaviour.

There is currently no way to get both quote characters into the same literal argspec.

Empty tags, e.g. "<>" and "</>", are not recognized. SGML allows them to repeat the previous start tag or close the previous start tag respectively.

NET tags, e.g. "code/.../" are not recognized. This is SGML shorthand for "<code>...</code>".

Unclosed start or end tags, e.g. "<tt...</tt>" are not recognized.

=head1 DIAGNOSTICS

The following messages may be produced by HTML::Parser. The notation in this listing is the same as used in L<perldiag>:

=over

=item Not a reference to a hash

(F) The object blessed into or subclassed from HTML::Parser is not a hash as required by the HTML::Parser methods.

=item Bad signature in parser state object at %p

(F) The `_hparser_xs_state` element does not refer to a valid state structure.
Something must have changed the internal value
stored in this hash element, or the memory has been overwritten.

=item `_hparser_xs_state` element is not a reference

(F) The `_hparser_xs_state` element has been destroyed.

=item Can't find '`_hparser_xs_state`' element in `HTML::Parser` hash

(F) The `_hparser_xs_state` element is missing from the parser hash.
It was
either deleted, or not created when the object was created.

=item API version %s not supported by `HTML::Parser` %s

(F) The constructor option '`api_version`' with an argument greater than
or equal to 4 is reserved for future extensions.

=item Bad constructor option '%s'

(F) An unknown constructor option key was passed to the `new()` or
`init()` methods.

=item Parse loop not allowed

(F) A handler invoked the `parse()` or `parse_file()` method.
This is not permitted.

=item marked sections not supported

(F) The `$p->marked_sections()` method was invoked in a `HTML::Parser`
module that was compiled without support for marked sections.

=item Unknown boolean attribute (%d)

(F) Something is wrong with the internal logic that set up aliases for
boolean attributes.

=item Only code or array references allowed as handler

(F) The second argument for `$p->handler` must be either a subroutine
reference, then name of a subroutine or method, or a reference to an
array.

=item No handler for %s events

(F)

The first argument to `$p->handler` must be a valid event name; i.e. one of "start", "end", "text", "process", "declaration" or "comment".

=item Unrecognized identifier %s in argspec

(F) The identifier is not a known argspec name.

Use one of the names mentioned in the argspec section above.

=item Literal string is longer than 255 chars in argspec

(F) The current implementation limits the length of literals in an argspec to 255 characters. Make the literal shorter.

=item Backslash reserved for literal string in argspec

(F) The backslash character "\" is not allowed in argspec literals. It is reserved to permit quoting inside a literal in a later version.

=item Unterminated literal string in argspec

(F) The terminating quote character for a literal was not found.

=item Bad argspec (%s)

(F) Only identifier names, literals, spaces and commas are allowed in argspecs.

=item Missing comma separator in argspec

(F) Identifiers in an argspec must be separated with ",".

=item Parsing

of undecoded UTF-8 will give garbage when decoding entities

(W) The first chunk parsed appears to contain undecoded UTF-8 and one or more argspecs that decode entities are used for the callback handlers.

The result of decoding will be a mix of encoded and decoded characters for any entities that expand to characters with code above 127. This is not a good thing.

The recommended solution is to apply `Encode::decode_utf8()` on the data before feeding it to the `$p->parse()`. For `$p->parse_file()` pass a file that has been opened in "utf8" mode.

The alternative solution is to enable the C<utf8_mode> and not decode before passing strings to \$p->parse(). The parser can process raw undecoded UTF-8 sanely if the C<utf8_mode> is enabled, or if the "attr", "@attr" or "dtext" argspecs are avoided.

=item Parsing string decoded with wrong endianness

(W) The first character in the document is U+FFFE. This is not a legal Unicode character but a byte swapped BOM. The result of parsing will likely be garbage.

=item Parsing of undecoded UTF-32

(W) The parser found the Unicode UTF-32 BOM signature at the start of the document. The result of parsing will likely be garbage.

=item Parsing of undecoded UTF-16

(W) The parser found the Unicode UTF-16 BOM signature at the start of the document. The result of parsing will likely be garbage.

=back

=head1 SEE ALSO

L<HTML::Entities>, L<HTML::PullParser>, L<HTML::TokenParser>, L<HTML::HeadParser>, L<HTML::LinkExtor>, L<HTML::Form>

L<HTML::TreeBuilder> (part of the I<HTML-Tree> distribution)

L<<http://www.w3.org/TR/html4/>>

More information about marked sections and processing instructions may be found at L<<http://www.is-thought.co.uk/book/sgml-8.htm>>.

=head1 COPYRIGHT

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=cut

Found in path(s):

* /libhtml-parser-perl-3.72-orig-1-tar-gz/HTML-Parser-3.72/Parser.pm

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OVERVIEW

The HTML-Parser distribution is a collection of modules that parse and extract information from HTML documents. The modules present in this collection are:

HTML::Parser - The parser base class. It receives arbitrary sized chunks of the HTML text, recognizes markup elements, and separates them from the plain text. As different kinds of markup and text are recognized, the corresponding event handlers are invoked.

HTML::Entities - Provides functions to encode and decode text with embedded HTML <entities>.

HTML::HeadParser - A lightweight HTML::Parser subclass that extracts information from the <HEAD> section of an HTML document.

HTML::LinkExtr - An HTML::Parser subclass that extracts links from an HTML document.

HTML::PullParser - An alternative interface to the basic parser that does not require event driven programming.

HTML::TokenParser - An HTML::PullParser subclass with fixed token setup and methods for extracting text. Many simple parsing needs are probably best attacked with this module.

In addition take a look at the HTML-Tree package that build on HTML::Parser to create and extract information from HTML syntax trees (similar to HTML DOM).

PREREQUISITES

In order to install and use this package you will need Perl version 5.8 or better. The HTML::Tagset module should be installed.

If you intend to use the HTML::HeadParser you probably want to install libwww-perl too.

INSTALLATION

Just follow the usual procedure:

```
perl Makefile.PL
make
make test
make install
```

REPORTING BUGS

Bug reports and issues for discussion about these modules can be sent to the <libwww@perl.org> mailing list.

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* /libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/README
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=head1 NAME

HTML::PullParser - Alternative HTML::Parser interface

=head1 SYNOPSIS

```
use HTML::PullParser;
```

```
$p = HTML::PullParser->new(file => "index.html",
                           start => 'event, tagname, @attr',
                           end   => 'event, tagname',
                           ignore_elements => [qw(script style)],
                           ) || die "Can't open: $!";
while (my $token = $p->get_token) {
    #...do something with $token
}
```

=head1 DESCRIPTION

The HTML::PullParser is an alternative interface to the HTML::Parser class. It basically turns the HTML::Parser inside out. You associate a file (or any IO::Handle object or string) with the parser at construction time and then repeatedly call \$parser->get_token to obtain the tags and text

found in the parsed document.

The following methods are provided:

```
=over 4
```

```
=item $p = HTML::PullParser->new( file => $file, %options )
```

```
=item $p  
= HTML::PullParser->new( doc => \ $doc, %options )
```

A C<HTML::PullParser> can be made to parse from either a file or a literal document based on whether the C<file> or C<doc> option is passed to the parser's constructor.

The C<file> passed in can either be a file name or a file handle object. If a file name is passed, and it can't be opened for reading, then the constructor will return an undefined value and \$! will tell you why it failed. Otherwise the argument is taken to be some object that the C<HTML::PullParser> can read() from when it needs more data. The stream will be read() until EOF, but not closed.

A C<doc> can be passed plain or as a reference to a scalar. If a reference is passed then the value of this scalar should not be changed before all tokens have been extracted.

Next the information to be returned for the different token types must be set up. This is done by simply associating an argspec (as defined in L<HTML::Parser>) with the events you have an interest in.

For instance, if you want C<start> tokens to be reported as the string C<'S'> followed by the tagname and the attributes you might pass an C<start>-option like this:

```
$p = HTML::PullParser->new(  
    doc => $document_to_parse,  
    start => "'S'", tagname, @attr',  
    end => "'E'", tagname',  
);
```

At last other C<HTML::Parser> options, like C<ignore_tags>, and C<unbroken_text>, can be passed in. Note that you should not use the I<event>_h options to set up parser handlers. That would confuse the inner logic of C<HTML::PullParser>.

```
=item $token = $p->get_token
```

This method will return the next I<token> found in the HTML document,

or C<undef> at the end of the document. The token is returned as an array reference. The content of this array match the argspec set up during C<HTML::PullParser> construction.

```
=item $p->unget_token( @tokens )
```

If you find out you have read too many tokens you can push them back, so that they are returned again the next time \$p->get_token is called.

```
=back
```

```
=head1 EXAMPLES
```

The 'eg/hform' script shows how we might parse the form section of HTML::Documents using HTML::PullParser.

```
=head1 SEE ALSO
```

L<HTML::Parser>, L<HTML::Tokenizer>

```
=head1 COPYRIGHT
```

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```
=cut
```

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```
=back
```

```
=head1 EXAMPLE
```

```
$h = HTTP::Headers->new;
$p = HTML::HeadParser->new($h);
$p->parse(<<EOT);
<title>Stupid example</title>
<base href="http://www.linpro.no/lwp/">
Normal text starts here.
EOT
undef $p;
print $h->title; # should print "Stupid example"
```

=head1 SEE ALSO

L<HTML::Parser>, L<HTTP::Headers>

The C<HTTP::Headers> class is distributed as part of the I<libwww-perl> package. If you don't have that distribution installed you need to provide the \$header argument to the C<HTML::HeadParser> constructor with your own object that implements the documented protocol.

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=head1 EXAMPLE

This is an example showing how you can extract links from a document received using LWP:

```
use LWP::UserAgent;
use HTML::LinkExtor;
use URI::URL;
```

```
$url = "http://www.perl.org/"; # for instance
$ua = LWP::UserAgent->new;
```

```
# Set up a callback that collect image links
my @imgs = ();
sub callback {
    my($tag, %attr) = @_;
    return if $tag ne 'img'; # we only look closer at <img ...>
    push(@imgs, values %attr);
}
```

```
# Make the parser. Unfortunately, we don't know the base yet
# (it might be different from $url)
$p = HTML::LinkExtor->new(\&callback);
```

```
# Request document and parse it as it arrives
$res = $ua->request(HTTP::Request->new(GET => $url),
    sub { $p->parse($_[0])});
```

```
# Expand all image URLs to absolute ones
my $base = $res->base;
@imgs = map { $_ = url($_, $base)->abs; } @imgs;
```

```
# Print them out
print join("\n", @imgs), "\n";
```

```
=head1
SEE ALSO
```

L<HTML::Parser>, L<HTML::Tagset>, L<LWP>, L<URI::URL>

```
=head1 COPYRIGHT
```

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```
=cut
```

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```
=encoding utf8
```

```
=head1 NAME
```

HTML::Entities - Encode or decode strings with HTML entities

```
=head1 SYNOPSIS
```

```
use HTML::Entities;
```

```
$a = "V&aring;re norske tegn b&oslash;r &#230res";
decode_entities($a);
encode_entities($a, "\200-\377");
```

For example, this:

```
$input = "vis-à-vis Beyoncé's naïve\ncapier-mâché résumé";
print encode_entities($input), "\n"
```

Prints this out:

```
vis-&agrave;-vis Beyonc&eacute;'s na&iuml;ve  
papier-m&acirc;ch&eacute; r&eacute;sum&eacute;
```

=head1 DESCRIPTION

This module deals with encoding and decoding of strings with HTML character entities. The module provides the following functions:

=over 4

=item decode_entities(\$string, ...)

This routine replaces HTML entities found in the \$string with the corresponding Unicode character. Unrecognized entities are left alone.

If multiple strings are provided as argument they are each decoded separately and the same number of strings are returned.

If
called in void context the arguments are decoded in-place.

This routine is exported by default.

=item _decode_entities(\$string, \%entity2char)

=item _decode_entities(\$string, \%entity2char, \$expand_prefix)

This will in-place replace HTML entities in \$string. The \%entity2char hash must be provided. Named entities not found in the \%entity2char hash are left alone. Numeric entities are expanded unless their value overflow.

The keys in \%entity2char are the entity names to be expanded and their values are what they should expand into. The values do not have to be single character strings. If a key has ";" as suffix, then occurrences in \$string are only expanded if properly terminated with ";". Entities without ";" will be expanded regardless of how they are terminated for compatibility with how common browsers treat entities in the Latin-1 range.

If \$expand_prefix is TRUE then entities without trailing ";" in \%entity2char will even be expanded as a prefix of a longer unrecognized

name. The longest matching name in \%entity2char will be used. This is mainly present for compatibility with an MSIE

misfeature.

```
$string = "foo&nbsp;bar";  
_decode_entities($string, { nb => "@", nbsp => "\xA0" }, 1);  
print $string; # will print "foo bar"
```

This routine is exported by default.

```
=item encode_entities( $string )
```

```
=item encode_entities( $string, $unsafe_chars )
```

This routine replaces unsafe characters in \$string with their entity representation. A second argument can be given to specify which characters to consider unsafe. The unsafe characters is specified using the regular expression character class syntax (what you find within brackets in regular expressions).

The default set of characters to encode are control chars, high-bit chars, and the C<< < >>, C<< & >>, C<< > >>, C<< ' >> and C<< " >> characters. But this, for example, would encode I<just> the C<< < >>, C<< & >>, C<< > >>, and C<< " >> characters:

```
$encoded = encode_entities($input, '<>&');
```

and

this would only encode non-plain ascii:

```
$encoded = encode_entities($input, '^\\n\\x20-\\x25\\x27-\\x7e');
```

This routine is exported by default.

```
=item encode_entities_numeric( $string )
```

```
=item encode_entities_numeric( $string, $unsafe_chars )
```

This routine works just like encode_entities, except that the replacement entities are always C<&#xI<hexnum>;> and never C<&I<entname>;>. For example, C<encode_entities("r\\xF4le")> returns "rôle", but C<encode_entities_numeric("r\\xF4le")> returns "rôle".

This routine is I<not> exported by default. But you can always export it with C<use HTML::Entities qw(encode_entities_numeric);> or even C<use HTML::Entities qw(:DEFAULT encode_entities_numeric);>

```
=back
```

All these routines modify the string passed as the first argument, if

called in a void context. In scalar and array contexts, the encoded or decoded string is returned (without changing the input string).

If you prefer not to import these routines into your namespace, you can call them as:

```
use HTML::Entities ();
$decoded = HTML::Entities::decode($a);
$encoded = HTML::Entities::encode($a);
$encoded = HTML::Entities::encode_numeric($a);
```

The module can also export the %char2entity and the %entity2char hashes, which contain the mapping from all characters to the corresponding entities (and vice versa, respectively).

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* /libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/lib/HTML/Entities.pm

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=head1 NAME

HTML::Filter - Filter HTML text through the parser

=head1 NOTE

B<This module is deprecated.> The C<HTML::Parser> now provides the functionality of C<HTML::Filter> much more efficiently with the C<default> handler.

=head1 SYNOPSIS

```
require HTML::Filter;
$p = HTML::Filter->new->parse_file("index.html");
```

=head1 DESCRIPTION

C<HTML::Filter> is an HTML parser that by default prints the original text of each HTML element (a slow version of cat(1) basically).

The callback methods may be overridden to modify the filtering for some HTML elements and you can override output() method which is called to print the HTML text.

C<HTML::Filter> is a subclass of C<HTML::Parser>. This means that the document should be given to the parser by calling the \$p->parse() or \$p->parse_file() methods.

=head1 EXAMPLES

The first example is a filter that will remove all comments from an HTML file. This is achieved by simply overriding the comment method to do nothing.

```
package CommentStripper;
require HTML::Filter;
@ISA=qw(HTML::Filter);
sub comment { } # ignore comments
```

The second example shows a filter that will remove any E<lt>TABLE>s found in the HTML file. We specialize the start() and end() methods to count table tags and then make output not happen when inside a table.

```
package TableStripper;
require HTML::Filter;
@ISA=qw(HTML::Filter);
sub start
{
    my $self = shift;
    $self->{table_seen}++ if $_[0] eq "table";
    $self->SUPER::start(@_);
}

sub end
{
    my $self = shift;
    $self->SUPER::end(@_);
    $self->{table_seen}-- if $_[0] eq "table";
}

sub output
{
    my $self = shift;
    unless ($self->{table_seen}) {
        $self->SUPER::output(@_);
    }
}
```

```
}
```

If you want to collect the parsed text internally you might want to do something like this:

```
package FilterIntoString;
require HTML::Filter;
@ISA=qw(HTML::Filter);
sub output { push(@{$_[0]}->{fhtml}},
$_[1]) }
sub filtered_html { join("", @{$_[0]}->{fhtml}}) }
```

=head1 SEE ALSO

L<HTML::Parser>

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Found in path(s):

* /libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/lib/HTML/Filter.pm

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abstract: 'HTML parser class'

author:

- 'Gisle Aas <gisle@activestate.com>'

build_requires:

ExtUtils::MakeMaker: 0

Test::More: 0

configure_requires:

ExtUtils::MakeMaker: 0

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.133380'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: 1.4

name: HTML-Parser

no_index:

directory:

- t

- inc
recommends:
HTTP::Headers: 0
requires:
HTML::Tagset: 3
XSLoader: 0
perl: 5.008
resources:
MailingList: <mailto:libwww@perl.org>
repository: <http://github.com/gisle/html-parser>
version: 3.72

Found in path(s):
* /libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/META.yml
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```
/*  
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 */
```

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* /libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/util.c
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```
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 */
```

Found in path(s):
* /libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/hparser.h
* /libhtml-parser-perl-3-72-orig-1-tar-gz/HTML-Parser-3.72/hparser.c
No license file was found, but licenses were detected in source scan.

=head1 NAME

HTML::TokenParser - Alternative HTML::Parser interface

=head1 SYNOPSIS

```
require HTML::TokenParser;  
$p = HTML::TokenParser->new("index.html") ||
```

```

    die "Can't open: $!";
$p->empty_element_tags(1); # configure its behaviour

while (my $token = $p->get_token) {
    #...
}

```

=head1 DESCRIPTION

The C<HTML::TokeParser> is an alternative interface to the C<HTML::Parser> class. It is an C<HTML::PullParser> subclass with a predeclared set of token types. If you wish the tokens to be reported differently you probably want to use the C<HTML::PullParser> directly.

The following methods are available:

=over 4

```
=item $p = HTML::TokeParser->new( $filename, %opt );
```

```
=item $p = HTML::TokeParser->new( $filehandle, %opt );
```

```
=item $p = HTML::TokeParser->new( \ $document, %opt );
```

The object constructor argument is either a file name, a file handle object, or the complete document to be parsed. Extra options can be provided as key/value pairs and are processed as documented by the base classes.

If the argument is a plain scalar, then it is taken as the name of a file to be opened and parsed. If the file can't be opened for reading, then the constructor will return C<undef> and \$! will tell you why it failed.

If the argument is a reference to a plain scalar, then this scalar is taken to be the literal document to parse. The value of this scalar should not be changed before all tokens have been extracted.

Otherwise the argument is taken to be some object that the C<HTML::TokeParser> can read() from when it needs more data. Typically it will be a filehandle of some kind. The stream will be read() until EOF, but not closed.

A newly constructed C<HTML::TokeParser> differ from its base classes by having the C<unbroken_text> attribute enabled by default. See L<HTML::Parser> for a description of this and other attributes that influence how the document is parsed. It is often a good idea to enable

C<empty_element_tags>

behaviour.

Note that the parsing result will likely not be valid if raw undecoded UTF-8 is used as a source. When parsing UTF-8 encoded files turn on UTF-8 decoding:

```
open(my $fh, "<:utf8", "index.html") || die "Can't open 'index.html': $!";
my $p = HTML::TokeParser->new( $fh );
# ...
```

If a \$filename is passed to the constructor the file will be opened in raw mode and the parsing result will only be valid if its content is Latin-1 or pure ASCII.

If parsing from an UTF-8 encoded string buffer decode it first:

```
utf8::decode($document);
my $p = HTML::TokeParser->new( \ $document );
# ...
```

=item \$p->get_token

This method will return the next I<token> found in the HTML document, or C<undef> at the end of the document. The token is returned as an array reference. The first element of the array will be a string denoting the type of this token: "S" for start tag, "E" for end tag, "T" for text, "C" for comment, "D" for declaration, and "PI" for process instructions. The rest of the token array depend on the type like this:

```
["S", $tag, $attr, $attrseq, $text]
["E", $tag, $text]
["T", $text, $is_data]
["C", $text]
["D", $text]
["PI", $token0, $text]
```

where \$attr is a hash reference, \$attrseq is an array reference and the rest are plain scalars. The L<HTML::Parser/Argspec> explains the details.

=item \$p->unget_token(@tokens)

If you find you have read too many tokens you can push them back, so that they are returned the next time \$p->get_token is called.

```
=item $p->get_tag
```

```
=item $p->get_tag( @tags )
```

This method returns the next start or end tag (skipping any other tokens), or C<undef> if there are no more tags in the document. If one or more arguments are given, then we skip tokens until one of the specified tag types is found. For example:

```
$p->get_tag("font", "/font");
```

will find the next start or end tag for a font-element.

The tag information is returned as an array reference in the same form as

for \$p->get_token above, but the type code (first element) is missing. A start tag will be returned like this:

```
[$tag, $attr, $attrseq, $text]
```

The tagname of end tags are prefixed with "/", i.e. end tag is returned like this:

```
["/$tag", $text]
```

```
=item $p->get_text
```

```
=item $p->get_text( @endtags )
```

This method returns all text found at the current position. It will return a zero length string if the next token is not text. Any entities will be converted to their corresponding character.

If one or more arguments are given, then we return all text occurring before the first of the specified tags found. For example:

```
$p->get_text("p", "br");
```

will return the text up to either a paragraph or linebreak element.

The text might span tags that should be I<textified>. This is controlled by the \$p->{textify} attribute, which is a hash that defines how certain tags can be treated as text. If the name of a start tag matches a key in this hash then this tag is converted to text. The hash value is used to specify which tag attribute to obtain the text from. If this tag attribute is missing, then the upper case name of the tag enclosed in brackets is returned, e.g. "[IMG]". The

hash value can also be a subroutine reference. In this case the routine is called with the start tag token content as its argument and the return value is treated as the text.

The default `$p->{textify}` value is:

```
{img => "alt", applet => "alt"}
```

This means that `<IMG>` and `<APPLET>` tags are treated as text, and that the text to substitute can be found in the ALT attribute.

```
=item $p->get_trimmed_text
```

```
=item $p->get_trimmed_text( @endtags )
```

Same as `$p->get_text` above, but will collapse any sequences of white space to a single space character. Leading and trailing white space is removed.

```
=item $p->get_phrase
```

This will return all text found at the current position ignoring any phrasal-level tags. Text is extracted until the first non phrasal-level tag. Textification of tags is the same as for `get_text()`. This method will collapse white space in the same way as `get_trimmed_text()` does.

The definition of `<i>phrasal-level tags</i>` is obtained from the `HTML::Tagset` module.

```
=back
```

```
=head1 EXAMPLES
```

This example extracts all links from a document. It will print one line for each link, containing the URL and the textual description between the `<A>...</A>` tags:

```
use HTML::TokeParser;
$p = HTML::TokeParser->new(shift||"index.html");

while (my $token = $p->get_tag("a")) {
    my $url = $token->[1]{href} || "-";
    my $text = $p->get_trimmed_text("/a");
    print "$url\t$text\n";
}
```

This example extract the <TITLE> from the document:

```
use HTML::TokeParser;
$p = HTML::TokeParser->new(shift||"index.html");
if ($p->get_tag("title")) {
    my $title = $p->get_trimmed_text;
    print "Title: $title\n";
}
```

=head1 SEE ALSO

L<HTML::PullParser>, L<HTML::Parser>

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1.186 fcgi 0.79-1

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1.187 libcgi-pm-perl 4.46-1

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1.188 libfcgi-perl 0.79-1

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1.189 liburi-perl 1.76-2

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1.191 python-oauthlib 3.1.0-1ubuntu2

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1.193 blinker 1.4+dfsg1-0.3ubuntu1

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1.194 python-jsonpointer 2.0-0ubuntu1

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1.195 python-jsonschema 3.2.0-0ubuntu2

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1.196 htop 2.2.0-2build1

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1.197 screen 4.8.0-1ubuntu0.1

1.197.1 Available under license :

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Version 3, 29 June 2007

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The

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```

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

```

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The

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section 10

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1.203 lxd-agent-loader 0.4

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Upstream-Name: lxd

Upstream-Contact: lxc-devel@lists.linuxcontainers.org

Source: <https://linuxcontainers.org/lxd/downloads>

Comment: The content of this package is synced with

https://github.com/lxc/lxd/blob/master/lxd/instance/drivers/driver_qemu.go

Files: *

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1.204 inotify-tools 3.14-8

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1.205 libnet-libidn-perl 0.12.ds-3build2

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1.207 mingetty 1.08-2build1

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1.208 perl-openssl-defaults 4

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Update>, L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>, L<Net::DNS::RR::TSIG>, RFC1035 Section 4.1, RFC2136 Section 2, RFC2845

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* /libnet-dns-perl-1.22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Packet.pm

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=head1 SYNOPSIS

```
use Net::DNS;
```

```
$rr = new Net::DNS::RR('name PX preference map822 mapx400');
```

=head1 DESCRIPTION

Class for DNS X.400 Mail Mapping Information (PX) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 preference

```
$preference = $rr->preference;
```

```
$rr->preference( $preference );
```

A 16 bit integer which specifies the preference given to this RR among others at the same owner.

Lower values are preferred.

=head2 map822

```
$map822 = $rr->map822;  
$rr->map822( $map822 );
```

A domain name element containing <rfc822-domain>, the RFC822 part of the MIXER Conformant Global Address Mapping.

=head2 mapx400

```
$mapx400  
= $rr->mapx400;  
$rr->mapx400( $mapx400 );
```

A <domain-name> element containing the value of <x400-in-domain-syntax> derived from the X.400 part of the MIXER Conformant Global Address Mapping.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC2163

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=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR('name RT preference intermediate');
```

=head1 DESCRIPTION

Class for DNS Route Through (RT) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 preference

```
$preference = $rr->preference;
$rr->preference( $preference );
```

A 16 bit integer representing the preference of the route.
Smaller numbers indicate more preferred routes.

=head2 intermediate

```
$intermediate = $rr->intermediate;
$rr->intermediate( $intermediate );
```

The domain name of a host which will serve as an intermediate in reaching the host specified by the owner name.
The DNS RRs associated with the

intermediate host are expected
to include at least one A, X25, or ISDN record.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1183 Section 3.3

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=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name ISDN ISDNaddress sa');
```

=head1 DESCRIPTION

Class for DNS ISDN resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

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=head2 ISDNaddress

=head2 address

```
$address = $rr->address;  
$rr->address( $address );
```

The ISDN-address is a string of characters, normally decimal digits, beginning with the E.163 country code and ending with the DDI if any.

=head2 sa

```
$sa = $rr->sa;  
$rr->sa( $sa );
```

The optional subaddress (SA) is a string of hexadecimal digits.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>,
RFC1183 Section 3.2

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=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name CDS keytag algorithm digtype digest');
```

=head1 DESCRIPTION

DNS Child DS resource record

This is a clone of the DS record and inherits all properties of the Net::DNS::RR::DS class.

Please see the L<Net::DNS::RR::DS> perl documentation for details.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, L<Net::DNS::RR::DS>, RFC7344, RFC8078(erratum 5049)

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=head1 SYNOPSIS

use Net::DNS;

\$rr = new Net::DNS::RR('name TLSA usage selector matchingtype certificate');

=head1 DESCRIPTION

The Transport Layer Security Authentication (TLSA) DNS resource record is used to associate a TLS server certificate or public key with the domain name where the record is found, forming a "TLSA certificate association". The semantics of how the TLSA RR is interpreted are described in RFC6698.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 usage

```
$usage = $rr->usage;  
$rr->usage( $usage );
```

8-bit integer value which specifies the provided association that will be used to match the certificate presented in the TLS handshake.

=head2 selector

```
$selector = $rr->selector;  
$rr->selector( $selector );
```

8-bit integer value which specifies which part of the TLS certificate presented by the server will be matched against the association data.

=head2 matchingtype

```
$matchingtype = $rr->matchingtype;  
$rr->matchingtype( $matchingtype );
```

8-bit integer value which specifies how the certificate association is presented.

=head2 certificate

=head2 cert

```
$cert = $rr->cert;  
$rr->cert( $cert );
```

Hexadecimal representation of the certificate data.

```
=head2 certbin
```

```
$certbin = $rr->certbin;  
$rr->certbin( $certbin );
```

Binary representation of the certificate data.

```
=head2 babble
```

```
print $rr->babble;
```

The `babble()` method returns the 'BubbleBabble' representation of the digest if the `Digest::BubbleBabble` package is available, otherwise an empty string is returned.

BubbleBabble represents a message digest as a string of plausible words, to make the digest easier to verify.

The "words" are not necessarily real words, but they look more like words than a string of hex characters.

The 'BubbleBabble' string is appended as a comment when the string method is called.

```
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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC6698

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=head1 SYNOPSIS

```
use Net::DNS;
```

```
$rr = new Net::DNS::RR('name SOA mname rname 0 14400 3600 1814400 3600');
```

=head1 DESCRIPTION

Class for DNS Start of Authority (SOA) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented
by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data
structures is discouraged and could result in program termination or
other unpredictable behaviour.

=head2 mname

```
$mname = $rr->mname;
```

```
$rr->mname( $mname );
```

The domain name of the name server that was the
original or primary source of data for this zone.

=head2 rname

```
$rname = $rr->rname;
```

```
$rr->rname( $rname );
```

The mailbox which identifies the person responsible for maintaining this zone.

=head2 serial

```
$serial = $rr->serial;  
$rr->serial( $serial );
```

Unsigned 32 bit version number of the original copy of the zone.
Zone transfers preserve this value.

RFC1982 defines a strict (irreflexive) partial ordering for zone serial numbers. The serial number will be incremented unless the replacement value argument satisfies the ordering constraint.

=head2 refresh

```
$refresh = $rr->refresh;  
$rr->refresh( $refresh );
```

A 32 bit time interval before the zone should be refreshed.

=head2 retry

```
$retry = $rr->retry;  
$rr->retry( $retry );
```

A 32 bit time interval that should elapse before a failed refresh should be retried.

=head2 expire

```
$expire = $rr->expire;  
$rr->expire( $expire );
```

A 32 bit time value that specifies the upper limit on the time interval that can elapse before the zone is no longer authoritative.

=head2 minimum

```
$minimum = $rr->minimum;  
$rr->minimum( $minimum );
```

The unsigned 32 bit minimum TTL field that should be

exported with any RR from this zone.

=head1 Zone Serial Number Management

The internal logic of the serial() method offers support for several widely used zone serial numbering policies.

=head2 Strictly Sequential

```
$successor = $soa->serial( SEQUENTIAL );
```

The existing serial number is incremented modulo 2^{32} because the value returned by the auxiliary SEQUENTIAL() function can never satisfy the serial number ordering constraint.

=head2 Date Encoded

```
$successor = $soa->serial( YYYYMMDDxx );
```

The 32 bit value returned by the auxiliary YYYYMMDDxx() function will be used if it satisfies the ordering constraint, otherwise the serial number will be incremented as above.

Serial number increments must be limited to 100 per day for the date information to remain useful.

=head2 Time Encoded

```
$successor = $soa->serial( UNIXTIME );
```

The 32 bit value returned by the auxiliary UNIXTIME() function will be used if it satisfies the ordering constraint, otherwise the existing serial number will be incremented as above.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.3.13, RFC1982

=cut

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/SOA.pm

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Packet>, L<Net::DNS::RR::OPT>
RFC 1035 Section 4.1.1

=cut

Found in path(s):

* /libnet-dns-perl-1.22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Header.pm

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=head1 SYNOPSIS

```
use Net::DNS;
$packet = new Net::DNS::Packet( ... );

$packet->header->do(1); # extended flag

$packet->edns->size(1280); # UDP payload size

$packet->edns->option( COOKIE => $cookie );

$packet->edns->print;

;; EDNS version 0
;; flags: 8000
;; rcode: NOERROR
;; size: 1280
;; option: DAU => ( 8, 10, 13, 14, 15, 16 )
;; DHU => ( 1, 2, 4 )
;; COOKIE => ( CLIENT-COOKIE => 7261776279746573,
```

```
:: SERVER-COOKIE => )
```

=head1 DESCRIPTION

EDNS OPT pseudo resource record.

The OPT record supports EDNS protocol extensions and is not intended to be created, accessed or modified directly by user applications.

All EDNS features are performed indirectly by operations on the objects returned by the `$packet->header` and `$packet->edns` creator methods. The underlying mechanisms are entirely hidden from the user.

=head1

METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 version

```
$version = $rr->version;  
$rr->version( $version );
```

The version of EDNS supported by this OPT record.

=head2 size

```
$size = $packet->edns->size;  
$more = $packet->edns->size(1280);
```

`size()` advertises the maximum size (octets) of UDP packet that can be reassembled in the network stack of the originating host.

=head2 rcode

```
$extended_rcode = $packet->header->rcode;  
$incomplete_rcode = $packet->edns->rcode;
```

The 12 bit extended RCODE. The most significant 8 bits reside in the OPT record. The least significant 4 bits can only be obtained from the packet header.

=head2 flags

```
$edns_flags = $packet->edns->flags;
```

```
$do = $packet->header->do;
```

```
$packet->header->do(1);
```

16

bit field containing EDNS extended header flags.

=head2 options, option

```
@option = $packet->edns->options;
```

```
$octets = $packet->edns->option($option_code);
```

```
$packet->edns->option( COOKIE => $cookie );
```

```
$packet->edns->option( 10    => $cookie );
```

When called in a list context, options() returns a list of option codes found in the OPT record.

When called in a scalar context with a single argument, option() returns the uninterpreted octet string corresponding to the specified option. The method returns undef if the specified option is absent.

Options can be added or replaced by providing the (name => string) pair. The option is deleted if the value is undefined.

When option() is called in a list context with a single argument, the returned array provides a structured interpretation appropriate to the specified option.

For the example above:

```
%hash = $packet->edns->option(10);
```

```
%hash = (  
  'CLIENT-COOKIE' => 'rawbytes',  
  'SERVER-COOKIE' => "  
);
```

For some options,

an array is more appropriate:

```
@algorithms = $packet->edns->option(6);
```

Similar forms of array or hash syntax may be used to construct the option value:

```
$packet->edns->option( DHU => [1, 2, 4] );
```

```
$packet->edns->option( COOKIE => {'CLIENT-COOKIE' => $cookie} );
```

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC6891, RFC3225

=cut

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/OPT.pm

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=head1 SYNOPSIS

```
use Net::DNS;
```

```
$rr = new Net::DNS::RR('name SSHFP algorithm fptype fp');
```

=head1 DESCRIPTION

DNS SSH Fingerprint (SSHFP) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 algorithm

```
$algorithm = $rr->algorithm;
```

```
$rr->algorithm( $algorithm );
```

The 8-bit algorithm number describes the algorithm used to construct the public key.

=head2 fptype

```
$fptype = $rr->fptype;
```

```
$rr->fptype( $fptype );
```

The 8-bit fingerprint type number describes the message-digest algorithm used to calculate the fingerprint of the public key.

=head2 fingerprint

=head2 fp

```
$fp = $rr->fp;
```

```
$rr->fp( $fp );
```

Hexadecimal

representation of the fingerprint digest.

```
=head2 fpbin
```

```
$fpbin = $rr->fpbin;  
$rr->fpbin( $fpbin );
```

Returns opaque octet string representing the fingerprint digest.

```
=head2 babble
```

```
print $rr->babble;
```

The babble() method returns the 'BabbleBubble' representation of the fingerprint if the Digest::BubbleBabble package is available, otherwise an empty string is returned.

Bubble babble represents a message digest as a string of "real" words, to make the fingerprint easier to remember. The "words" are not necessarily real words, but they look more like words than a string of hex characters.

Bubble babble fingerprinting is used by the SSH2 suite (and consequently by Net::SSH::Perl, the Perl SSH implementation) to display easy-to-remember key fingerprints.

The 'BubbleBabble' string is appended as a comment when the string method is called.

```
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```

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>,
RFC4255

=cut

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/SSHFP.pm

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=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name MR newname');
```

=head1 DESCRIPTION

Class for DNS Mail Rename (MR) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 newname

```
$newname = $rr->newname;  
$rr->newname( $newname );
```

A domain name which specifies a mailbox which is the

proper rename of the specified mailbox.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.3.8

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=head1 SYNOPSIS

use Net::DNS::Resolver;

=head1 DESCRIPTION

This class implements the OS specific portions of C<Net::DNS::Resolver>.

No user serviceable parts inside, see L<Net::DNS::Resolver>
for all your resolving needs.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Resolver>

=cut

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* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Resolver/UNIX.pm

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=head1 SYNOPSIS

```
use Net::DNS;

$r = new Net::DNS::RR('name SIG typecovered algorithm labels
    orgttl sigexpiration siginception
    keytag signame signature');
```

```
use Net::DNS::SEC;
```

```
$sigrr = create Net::DNS::RR::SIG( $string, $keypath,  
    sigval => 10 # minutes  
);
```

```
$sigrr->verify( $string, $keyrr ) || die $sigrr->vrfyerrstr;  
$sigrr->verify( $packet, $keyrr ) || die $sigrr->vrfyerrstr;
```

=head1 DESCRIPTION

Class for DNS digital signature (SIG) resource records.

In addition to the regular methods inherited from Net::DNS::RR the class contains a method to sign packets and scalar data strings using private keys (create) and a method for verifying signatures.

The SIG RR is an implementation of RFC2931.

See L<Net::DNS::RR::RRSIG> for an implementation of RFC4034.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 algorithm

```
$algorithm = $rr->algorithm;
```

The algorithm number field identifies the cryptographic algorithm used to create the signature.

algorithm() may also be invoked as a class method or simple function to perform mnemonic and numeric code translation.

=head2 sigexpiration and siginception times

=head2 sigex signin sigval

```
$expiration = $rr->sigexpiration;  
$expiration = $rr->sigexpiration( $value );
```

```
$inception = $rr->siginception;  
$inception = $rr->siginception( $value );
```

The signature expiration and inception fields specify a validity time interval for the signature.

The value may be specified by a string with format 'yyyymmddhhmmss' or a Perl time() value.

Return values are dual-valued, providing either a string value or numerical Perl time() value.

=head2 keytag

```
$keytag = $rr->keytag;  
$rr->keytag( $keytag );
```

The keytag field contains the key tag value of the KEY RR that validates this signature.

=head2 signame

```
$signame = $rr->signame;  
$rr->signame( $signame );
```

The signer name field value identifies the owner name of the KEY RR that a validator is supposed to use to validate this signature.

=head2 signature

=head2 sig

```
$sig = $rr->sig;  
$rr->sig( $sig );
```

The Signature field contains the cryptographic signature that covers the SIG RDATA (excluding the Signature field) and the subject data.

=head2 sigbin

```
$sigbin = $rr->sigbin;  
$rr->sigbin( $sigbin );
```

Binary representation of the cryptographic signature.

=head2 create

Create a signature over scalar data.

```
use Net::DNS::SEC;
```

```
$keypath = '/home/olaf/keys/Kbla.foo.+001+60114.private';
```

```
$sigrr = create Net::DNS::RR::SIG( $data, $keypath );
```

```
$sigrr = create Net::DNS::RR::SIG( $data, $keypath,  
    sigval => 10  
    );  
$sigrr->print;
```

```
# Alternatively use Net::DNS::SEC::Private
```

```
$private = Net::DNS::SEC::Private->new($keypath);
```

```
$sigrr= create Net::DNS::RR::SIG( $data, $private );
```

create() is an alternative constructor for a SIG RR object.

This method returns a SIG with the signature over the data made with the private key stored in the key file.

The first argument is a scalar that contains the data to be signed.

The second argument is a string which specifies the path to a file containing the private key as generated using dnssec-keygen, a program that comes with the ISC BIND distribution.

The optional remaining arguments consist of (name => value) pairs as follows:

```
signin => 20191201010101, # signature inception  
sigex  => 20191201011101, # signature expiration  
sigval => 10, # validity window (minutes)
```

The signin and sigex values may be specified as Perl time values or as a string with the format 'yyymmddhhmmss'. The default for signin is the time of signing.

The sigval argument specifies
the signature validity window in minutes
(sigex = signin + sigval).

By default the signature is valid for 10 minutes.

=over 4

=item *

Do not change the name of the private key file.

The create method uses the filename as generated by dnsssec-keygen to determine the keyowner, algorithm, and the keyid (keytag).

=back

=head2 verify

```
$verify = $sigrr->verify( $data, $keyrr );  
$verify = $sigrr->verify( $data, [$keyrr, $keyrr2, $keyrr3] );
```

The verify() method performs SIG0 verification of the specified data against the signature contained in the \$sigrr object itself using the public key in \$keyrr.

If a reference to a Net::DNS::Packet is supplied, the method performs a SIG0 verification on the packet data.

The second argument can either be a Net::DNS::RR::KEYRR object or a reference to an array of such objects. Verification will return successful as soon as one of the keys in the array leads to positive validation.

Returns false on error and sets \$sig->vrfyerrstr

=head2
vrfyerrstr

```
$sig0 = $packet->sigrr || die 'not signed';  
print $sig0->vrfyerrstr unless $sig0->verify( $packet, $keyrr );
```

```
$sigrr->verify( $packet, $keyrr ) || die $sigrr->vrfyerrstr;
```

=head1 REMARKS

The code is not optimised for speed.

If this code is still around in 2100 (not a leap year) you will need to check for proper handling of times after 28th February.

=head1 ACKNOWLEDGMENTS

Although their original code may have disappeared following redesign of Net::DNS, Net::DNS::SEC and the OpenSSL API, the following individual contributors deserve to be recognised for their significant influence on the development of the SIG package.

Andy Vaskys (Network Associates Laboratories) supplied code for RSA.

T.J. Mather provided support for the DSA algorithm.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>,
L<Net::DNS::SEC>,
RFC4034, RFC3755, RFC2535, RFC2931, RFC3110, RFC3008,
L<Net::DNS::SEC::DSA>,
L<Net::DNS::SEC::RSA>

L<Algorithm Numbers|<http://www.iana.org/assignments/dns-sec-alg-numbers>>

L<BIND 9 Administrator Reference Manual|<http://www.bind9.net/manuals>>

=cut

Found in path(s):

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=head1 SEE ALSO

L<perl>, L<Net::DNS>

=cut

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/contrib/find_zonecut

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=head1 SYNOPSIS

```
use Net::DNS::Resolver;
```

=head1 DESCRIPTION

This class implements the OS specific portions of C<Net::DNS::Resolver>.

No user serviceable parts inside, see L<Net::DNS::Resolver>

for all your resolving needs.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Resolver>

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Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Resolver/os390.pm

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=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR('name IN AAAA address');
```

```
$rr = new Net::DNS::RR(
name => 'example.com',
type => 'AAAA',
address => '2001:DB8::8:800:200C:417A'
);
```

=head1 DESCRIPTION

Class for DNS IPv6 Address (AAAA) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 address

```
$IPv6_address = $rr->address;
```

Returns the text representation of the IPv6 address.

=head2 address_long

```
$IPv6_address = $rr->address_long;
```

Returns the text representation specified in RFC3513, 2.2(1).

=head2 address_short

```
$IPv6_address = $rr->address_short;
```

Returns the textual form of address recommended
by RFC5952.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC3596, RFC3513, RFC5952

=cut

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* /libnet-dns-perl-1.22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/AAAA.pm

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=head1 SYNOPSIS

```
use Net::DNS::Resolver;
```

=head1 DESCRIPTION

This class implements the OS specific portions of C<Net::DNS::Resolver>.

No user serviceable parts inside, see L<Net::DNS::Resolver> for all your resolving needs.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Resolver>

=cut

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=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name MB madname');
```

=head1 DESCRIPTION

Class for DNS Mailbox (MB) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 madname

```
$madname = $rr->madname;  
$rr->madname( $madname );
```

A domain name which specifies a host which has the specified mailbox.

=head1 COPYRIGHT

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.3.3

=cut

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* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/MB.pm

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=head1 SYNOPSIS

```
use Net::DNS;
```

```
$rr = new Net::DNS::RR('name IPSECKEY precedence gatetype algorithm gateway key');
```

=head1 DESCRIPTION

DNS IPSEC Key Storage (IPSECKEY) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented

by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 precedence

```
$precedence = $rr->precedence;  
$rr->precedence( $precedence );
```

This is an 8-bit precedence for this record. Gateways listed in IPSECKEY records with lower precedence are to be attempted first.

=head2 gatetype

```
$gatetype = $rr->gatetype;
```

The gateway type field indicates the format of the information that is stored in the gateway field.

=head2 algorithm

```
$algorithm = $rr->algorithm;  
$rr->algorithm( $algorithm );
```

The algorithm type field identifies the public keys cryptographic algorithm and determines the format of the public key field.

=head2 gateway

```
$gateway = $rr->gateway;  
$rr->gateway( $gateway );
```

The gateway field indicates a gateway to which an IPsec tunnel may be created in order to reach the entity named by this resource record.

=head2 pubkey

=head2 key

```
$key = $rr->key;  
$rr->key( $key );
```

Base64 representation of the optional public key block for the resource record.

=head2 keybin

```
$keybin = $rr->keybin;  
$rr->keybin( $keybin );
```

Binary representation of the public key block for the resource record.

=head1 COPYRIGHT

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC4025

=cut

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=head2 Resolver Objects

A resolver object is an instance of the `L<Net::DNS::Resolver>` class. A program may have multiple resolver objects, each maintaining its own state information such as the nameservers to be queried, whether recursion is desired, etc.

=head2 Packet Objects

`L<Net::DNS::Resolver>` queries return `L<Net::DNS::Packet>` objects. A packet object has five sections:

=over 3

=item *

header, represented by a `L<Net::DNS::Header>` object

=item *

question, a list of no more than one `L<Net::DNS::Question>` object

=item *

answer, a list of `L<Net::DNS::RR>` objects

=item *

authority, a list of `L<Net::DNS::RR>` objects

=item *

additional, a list of `L<Net::DNS::RR>` objects

=back

=head2 Update Objects

`L<Net::DNS::Update>` is a subclass of `L<Net::DNS::Packet>` used to create dynamic update requests.

=head2 Header Object

The `L<Net::DNS::Header>` object mediates access to the header data which resides within

the corresponding L<Net::DNS::Packet>.

=head2 Question Object

The L<Net::DNS::Question> object represents the content of the question section of the DNS packet.

=head2 RR Objects

L<Net::DNS::RR> is the base class for DNS resource record (RR) objects in the answer, authority, and additional sections of a DNS packet.

Do not assume that RR objects will be of the type requested.

The type of an RR object must be checked before calling any methods.

=head1 METHODS

Net::DNS exports methods and auxiliary functions to support DNS updates, zone serial number management, and simple DNS queries.

=head2 version

```
use Net::DNS;  
print Net::DNS->version, "\n";
```

Returns the version of Net::DNS.

=head2 rr

```
# Use a default resolver -- can not get an error string this way.  
use Net::DNS;  
my @rr = rr("example.com");  
my @rr = rr("example.com", "AAAA");  
my @rr = rr("example.com", "AAAA", "IN");  
  
# Use your own resolver object.  
my $res = Net::DNS::Resolver->new;  
my @rr = rr($res, "example.com" ... );  
  
my ($ptr) = rr("2001:DB8::dead:beef");
```

The C<rr()> method provides simple RR lookup for scenarios where the full flexibility of Net::DNS is not required.

Returns a list of L<Net::DNS::RR> objects for the specified name or an empty list if the query failed or no record was found.

See L</EXAMPLES> for more complete examples.

=head2 mx

```
# Use a default resolver -- can not get an error string this way.
```

```
use Net::DNS;
```

```
my @mx = mx("example.com");
```

```
# Use your own resolver object.
```

```
my $res = Net::DNS::Resolver->new;
```

```
my @mx = mx($res, "example.com");
```

Returns a list of L<Net::DNS::RR::MX> objects representing the MX records for the specified name.

The list will be sorted by preference.

Returns an empty list if the query failed or no MX record was found.

This method does not look up address records; it resolves MX only.

=head1 Dynamic DNS Update Support

The Net::DNS module provides auxiliary functions which support dynamic

DNS update requests.

=head2 yxrrset

Use this method to add an "RRset exists" prerequisite to a dynamic update packet. There are two forms, value-independent and value-dependent:

```
# RRset exists (value-independent)
```

```
$update->push( pre => yxrrset("host.example.com AAAA") );
```

Meaning: At least one RR with the specified name and type must exist.

```
# RRset exists (value-dependent)
```

```
$update->push( pre => yxrrset("host.example.com AAAA 2001:DB8::dead:beef") );
```

Meaning: At least one RR with the specified name and type must exist and must have matching data.

Returns a L<Net::DNS::RR> object or C<undef> if the object could not

be created.

=head2 nxrrset

Use this method to add an "RRset does not exist" prerequisite to a dynamic update packet.

```
$update->push( pre => nxrrset("host.example.com AAAA") );
```

Meaning: No RRs with the specified name and type can exist.

Returns a L<Net::DNS::RR> object or C<undef> if the object could not be created.

=head2 yxdomain

Use

this method to add a "name is in use" prerequisite to a dynamic update packet.

```
$update->push( pre => yxdomain("host.example.com") );
```

Meaning: At least one RR with the specified name must exist.

Returns a L<Net::DNS::RR> object or C<undef> if the object could not be created.

=head2 nxdomain

Use this method to add a "name is not in use" prerequisite to a dynamic update packet.

```
$update->push( pre => nxdomain("host.example.com") );
```

Meaning: No RR with the specified name can exist.

Returns a L<Net::DNS::RR> object or C<undef> if the object could not be created.

=head2 rr_add

Use this method to add RRs to a zone.

```
$update->push( update => rr_add("host.example.com AAAA 2001:DB8::dead:beef") );
```

Meaning: Add this RR to the zone.

RR objects created by this method should be added to the "update"

section of a dynamic update packet. The TTL defaults to 86400 seconds (24 hours) if not specified.

Returns a L<Net::DNS::RR> object or C<undef> if the object could not be created.

```
=head2  
rr_del
```

Use this method to delete RRs from a zone. There are three forms: delete all RRsets, delete an RRset, and delete a specific RR.

```
# Delete all RRsets.  
$update->push( update => rr_del("host.example.com") );
```

Meaning: Delete all RRs having the specified name.

```
# Delete an RRset.  
$update->push( update => rr_del("host.example.com AAAA") );
```

Meaning: Delete all RRs having the specified name and type.

```
# Delete a specific RR.  
$update->push( update => rr_del("host.example.com AAAA 2001:DB8::dead:beef") );
```

Meaning: Delete the RR which matches the specified argument.

RR objects created by this method should be added to the "update" section of a dynamic update packet.

Returns a L<Net::DNS::RR> object or C<undef> if the object could not be created.

```
=head1 Zone Serial Number Management
```

The Net::DNS module provides auxiliary functions which support policy-driven zone serial numbering regimes.

```
=head2 SEQUENTIAL
```

```
$successor = $soa->serial( SEQUENTIAL  
);
```

The existing serial number is incremented modulo 2**32.

```
=head2 UNIXTIME
```

```
$successor = $soa->serial( UNIXTIME );
```

The Unix time scale will be used as the basis for zone serial numbering. The serial number will be incremented if the time elapsed since the previous update is less than one second.

```
=head2 YYYYMMDDxx
```

```
$successor = $soa->serial( YYYYMMDDxx );
```

The 32 bit value returned by the auxiliary `C<YYYYMMDDxx()>` function will be used as the base for the date-coded zone serial number. Serial number increments must be limited to 100 per day for the date information to remain useful.

```
=head1 Sorting of RR arrays
```

`C<rrsort()>` provides functionality to help you sort RR arrays. In most cases this will give you the result that you expect, but you can specify your own sorting method by using the `C<< Net::DNS::RR::FOO->set_rrsort_func() >>` class method. See `L<Net::DNS::RR>` for details.

```
=head2 rrsort
```

```
use Net::DNS;
```

```
my @sorted = rrsort( $rrtype, $attribute, @rr_array );
```

`C<rrsort()>` selects all RRs from the input array that are of the type defined by the first argument. Those RRs are sorted based on the attribute that is specified as second argument.

There are a number of RRs for which the sorting function is defined in the code.

For instance:

```
my @prioritysorted = rrsort( "SRV", "priority", @rr_array );
```

returns the SRV records sorted from lowest to highest priority and for equal priorities from highest to lowest weight.

If the function does not exist then a numerical sort on the attribute value is performed.

```
my @portsorted = rrsort( "SRV", "port", @rr_array );
```

If the attribute is not defined then either the C<default_sort()> function or "canonical sorting" (as defined by DNSSEC) will be used.

C<rrsort()> returns a sorted array containing only elements of the specified RR type. Any other RR types are silently discarded.

C<rrsort()> returns an empty list when arguments are incorrect.

=head1 EXAMPLES

The following brief examples illustrate some of the features of Net::DNS.

The documentation for individual modules and the demo scripts included with the distribution provide more extensive examples.

See L<Net::DNS::Update> for an example of performing dynamic updates.

=head2 Look up host addresses.

```
use Net::DNS;
my $res = Net::DNS::Resolver->new;
my $reply = $res->search("www.example.com", "AAAA");

if ($reply) {
    foreach my $rr ($reply->answer) {
        print $rr->address, "\n" if $rr->can("address");
    }
} else {
    warn "query failed: ", $res->errorstring, "\n";
}
```

=head2 Find the nameservers for a domain.

```
use Net::DNS;
my $res = Net::DNS::Resolver->new;
my $reply = $res->query("example.com", "NS");

if ($reply) {
    foreach $rr (grep { $_->type eq "NS" } $reply->answer) {
        print $rr->nsdname, "\n";
    }
} else {
    warn "query failed: ", $res->errorstring, "\n";
}
```

```
}
```

=head2 Find the MX records for a domain.

```
use Net::DNS;
my $name = "example.com";
my $res = Net::DNS::Resolver->new;
my @mx = mx($res, $name);

if (@mx) {
foreach $rr (@mx) {
    print $rr->preference, "\t", $rr->exchange, "\n";
}
} else {
warn "Can not find MX records for $name: ", $res->errorstring, "\n";
}
```

=head2 Print domain SOA record in zone file format.

```
use Net::DNS;
my $res = Net::DNS::Resolver->new;
my $reply = $res->query("example.com", "SOA");

if ($reply) {
foreach my $rr ($reply->answer) {
    $rr->print;
}
} else {
warn "query failed: ", $res->errorstring, "\n";
}
```

=head2 Perform a zone transfer and print all the records.

```
use Net::DNS;
my $res = Net::DNS::Resolver->new;
$res->tcp_timeout(20);
$res->nameservers("ns.example.com");

my @zone = $res->axfr("example.com");

foreach $rr (@zone) {
    $rr->print;
}

warn $res->errorstring if $res->errorstring;
```


=head2 Perform a background query and print the reply.

```
use Net::DNS;
my $res = Net::DNS::Resolver->new;
$res->udp_timeout(10);
$res->tcp_timeout(20);
my $socket = $res->bgsend("host.example.com", "AAAA");

while ( $res->bgbusy($socket) ) {
# do some work here while waiting for the response
# ...and some more here
}

my $packet = $res->bgsread($socket);
if ($packet) {
$packet->print;
} else {
warn "query failed: ", $res->errorstring, "\n";
}
```

=head1 BUGS

Net::DNS is slow.

For other items to be fixed, or if you discover a bug in this distribution please use the CPAN bug reporting system.

=head1 COPYRIGHT

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=head1 AUTHOR INFORMATION

Net::DNS is maintained at NLnet Labs (www.nlnetlabs.nl) by Willem Toorop.

Between 2005 and 2012 Net::DNS was maintained by Olaf Kolkman.

Between 2002 and 2004 Net::DNS was maintained by Chris Reinhardt.

Net::DNS was created
in 1997 by Michael Fuhr.

=head1 SEE ALSO

L<perl>, L<Net::DNS::Resolver>, L<Net::DNS::Question>, L<Net::DNS::RR>,
L<Net::DNS::Packet>, L<Net::DNS::Update>,
RFC1035, L<<http://www.net-dns.org/>>,
I<DNS and BIND> by Paul Albitz & Cricket Liu

=cut

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=head1 SYNOPSIS

```
use Net::DNS;

$tsig = create Net::DNS::RR::TSIG( $keyfile );
```

```
$tsig = create Net::DNS::RR::TSIG( $keyfile,  
    fudge => 300  
);
```

=head1 DESCRIPTION

Class for DNS Transaction Signature (TSIG) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 algorithm

```
$algorithm = $rr->algorithm;  
$rr->algorithm( $algorithm );
```

A domain name which specifies the name of the algorithm.

=head2 key

```
$rr->key( $key );
```

Base64 representation of the key material.

=head2 keybin

```
$rr->keybin( $keybin );
```

Binary representation of the key material.

=head2 time_signed

```
$time_signed = $rr->time_signed;  
$rr->time_signed( $time_signed );
```

Signing time as the number of seconds since 1 Jan 1970 00:00:00 UTC.
The default signing time is the current time.

=head2 fudge

```
$fudge = $rr->fudge;
```

```
$rr->fudge( $fudge );
```

"fudge" represents the permitted error in the signing time.
The default fudge is 300 seconds.

```
=head2 mac
```

```
$rr->mac( $mac );
```

Message authentication code (MAC).
The programmer must call the Net::DNS::Packet data()
object method before this will return anything meaningful.

```
=head2 macbin
```

```
$macbin = $rr->macbin;  
$rr->macbin( $macbin );
```

Binary message authentication code (MAC).

```
=head2 prior_mac
```

```
$prior_mac = $rr->prior_mac;  
$rr->prior_mac( $prior_mac );
```

Prior message authentication code (MAC).

```
=head2 prior_macbin
```

```
$prior_macbin = $rr->prior_macbin;  
$rr->prior_macbin( $prior_macbin );
```

Binary prior message authentication code.

```
=head2 request_mac
```

```
$request_mac = $rr->request_mac;  
$rr->request_mac( $request_mac );
```

Request message authentication
code (MAC).

```
=head2 request_macbin
```

```
$request_macbin = $rr->request_macbin;  
$rr->request_macbin( $request_macbin );
```

Binary request message authentication code.

=head2 original_id

```
$original_id = $rr->original_id;  
$rr->original_id( $original_id );
```

The message ID from the header of the original packet.

=head2 error

=head2 vrfyerrstr

```
$rcode = $tsig->error;
```

Returns the RCODE covering TSIG processing. Common values are NOERROR, BADSIG, BADKEY, and BADTIME. See RFC 2845 for details.

=head2 other

```
$other = $tsig->other;
```

This field should be empty unless the error is BADTIME, in which case it will contain the server time as the number of seconds since 1 Jan 1970 00:00:00 UTC.

=head2 sig_function

```
sub signing_function {  
my ( $keybin, $data ) = @_;  
  
my $hmac = new Digest::HMAC( $keybin, 'Digest::MD5' );  
$hmac->add( $data );  
return $hmac->digest;  
}  
  
$tsig->sig_function( \&signing_function );
```

This sets the signing function to be used for this TSIG record.
The default signing function is HMAC-MD5.

=head2 sig_data

```
$sigdata = $tsig->sig_data($packet);
```

Returns the packet packed according to RFC2845 in a form for signing. This

is only needed if you want to supply an external signing function, such as is needed for TSIG-GSS.

=head2 create

```
$tsig = create Net::DNS::RR::TSIG( $keyfile );
```

```
$tsig = create Net::DNS::RR::TSIG( $keyfile,  
    fudge => 300  
);
```

Returns a TSIG RR constructed using the parameters in the specified key file, which is assumed to have been generated by dnssec-keygen.

```
$tsig = create Net::DNS::RR::TSIG( $keyname, $key );
```

The two argument form is supported for backward compatibility.

=head2 verify

```
$verify = $tsig->verify( $data );  
$verify = $tsig->verify( $packet );
```

```
$verify = $tsig->verify( $reply, $query );
```

```
$verify = $tsig->verify( $packet, $prior );
```

The boolean verify method will return true if the hash over the packet data conforms to the data in the TSIG itself

=head1 TSIG Keys

TSIG keys are symmetric keys generated using dnssec-keygen:

```
$ dnssec-keygen -a HMAC-SHA1 -b 160 -n HOST <keyname>
```

The key will be stored as a private and public keyfile pair
K<keyname>+161+<keyid>.private and K<keyname>+161+<keyid>.key

where

<keyname> is the DNS name of the key.

<keyid> is the (generated) numerical identifier used to distinguish this key.

Other algorithms may be substituted for HMAC-SHA1 in the above example.

It is recommended that the keyname be globally unique and incorporate the fully qualified domain names of the resolver and nameserver in that order. It should be possible for more than one key to be in use simultaneously between any such pair of hosts.

Although the formats differ, the private and public keys are identical and both should be stored and handled as secret data.

=head1 Configuring BIND Nameserver

The following lines must be added to the /etc/named.conf file:

```
key <keyname> {  
algorithm HMAC-SHA1;  
secret  
"<keydata>";  
};
```

<keyname> is the name of the key chosen when the key was generated.

<keydata> is the key string extracted from the generated key file.

=head1 ACKNOWLEDGMENT

Most of the code in the Net::DNS::RR::TSIG module was contributed by Chris Turbeville.

Support for external signing functions was added by Andrew Tridgell.

TSIG verification, BIND keyfile handling and support for HMAC-SHA1, HMAC-SHA224, HMAC-SHA256, HMAC-SHA384 and HMAC-SHA512 functions was added by Dick Franks.

=head1 BUGS

A 32-bit representation of time is used, contrary to RFC2845 which demands 48 bits. This design decision will need to be reviewed before the code stops working on 7 February 2106.

=head1 COPYRIGHT

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC2845, RFC4635

L<TSIG Algorithm Names|<http://www.iana.org/assignments/tsig-algorithm-names>>

=cut

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Net::DNS - Perl DNS Resolver Module

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1. DESCRIPTION

Net::DNS is a DNS resolver implemented in Perl. It allows the programmer to perform nearly any type of DNS query from a Perl script. For details and examples, please read the Net::DNS manual page.

To read about the latest features, see the Changes file. To find out about known bugs and to see what is planned for future versions, see the CPAN RT ticket list.

The author invites feedback on Net::DNS. If there is something you would like to have added, please let me know. If you find a bug, please send me the information described in the BUGS section below.

See <http://www.net-dns.org/blog/> for announcements about Net::DNS.

2. AVAILABILITY

You can get the latest version of Net::DNS from the Comprehensive Perl Archive Network (CPAN) or from the module's homepage:

<https://metacpan.org/release/Net-DNS>

or through

<http://www.net-dns.org/>

Additionally a subversion repository is made available through

<http://www.net-dns.org/svn/net-dns/>

The version on the "trunk" (<http://www.net-dns.org/svn/net-dns/trunk>) is the version that is targeted for next release.

Please note that the SVN version at any given moment may be broken.

3. PREREQUISITES

The availability of prerequisites for Net::DNS is tested at installation time. These are the core packages that need to be available:

Digest::HMAC
Digest::MD5
Digest::SHA
File::Spec
IO::Socket
MIME::Base64
Time::Local
Test::More

The availability of these optional packages is tested at runtime:

Digest::BubbleBabble
IO::Socket::IP
Net::DNS::SEC
Net::LibIDN2

You
can obtain the latest version of Perl from:

<http://www.cpan.org>

Some of the demonstration and contributed scripts may require additional modules -- see demo/README and contrib/README for details.

Note that the Test::More module is actually part of the Test-Simple distribution. See the FAQ ([lib/Net/DNS/FAQ.pod](#)) for more information.

4. INSTALLATION

Please install any modules mentioned in the PREREQUISITES section above. If you do not, some features of Net::DNS will not work. When you run "perl Makefile.PL", Perl should complain if any of the required modules is missing.

To build this module, run the following commands:

```
tar xvzf Net-DNS-?.?.tar.gz
cd Net-DNS-?.??
perl Makefile.PL
make
make test
make install
```

If you do not wish to run the online tests, the '--no-online-tests' option can be used. Similarly, '--online-tests' will enable the online tests. Online tests will be run by default, but the result will not adversely affect the outcome of test suite.

Also, if you do not wish to run the IPv6 tests, the '--no-IPv6-tests' option can be used. Similarly, '--IPv6-tests' will enable the IPv6 tests.

5. RUNNING TESTS

If any of the tests fail, please contact the author with the output from the following command:

```
make test TEST_VERBOSE=1
```

6. DEMONSTRATION SCRIPTS

There are a few demonstration scripts in the demo/ directory -- see demo/README for more information. Contributed scripts are in the contrib/ directory -- see contrib/README.

The author would be happy to include any contributed scripts in future versions of this module. All I ask is that they be documented (preferably using POD) and that the contributor's name and contact information be mentioned somewhere.

7. DYNAMIC UPDATES

Net::DNS supports DNS dynamic updates as documented in RFC 2136; for more information and examples, please see the Net::DNS::Update manual page.

Here is a summary of the update semantics for those interested (see RFC 2136 for details):

PREREQUISITE SECTION

	# RRs	NAME	TTL	CLASS	TYPE	RDLENGTH	RDATA
	----	----	---	----	-----	-----	-----
yxxrrset	1	name	0	ANY	type	0	empty
yxxrrset	1+	name	0	class	type	rdlength	rdata
nxrrset	1	name	0	NONE	type	0	empty
yxdomain	1	name	0	ANY	ANY	0	empty
nxdomain	1	name	0	NONE	ANY	0	empty

UPDATE SECTION

	# RRs	NAME	TTL	CLASS	TYPE	RDLENGTH	RDATA
	----	----	---	----	-----	-----	-----
add RRs	1+	name	ttl	class	type	rdlength	rdata
del RRset	1	name	0	ANY	type	0	empty
del all RRsets	1	name	0	ANY			
ANY	0	empty					
del RRs	1+	name	0	NONE	type	rdlength	rdata

8. SIGNED QUERIES & UPDATES

Net::DNS supports the TSIG resource record to perform signed queries and updates (RFC 2845). See the Net::DNS::Packet and Net::DNS::Update manual pages for examples.

If you're using the BIND nameserver, the BIND FAQ shows how to generate keys and configure the nameserver to use them:

<http://www.nominum.com/resources/faqs/bind-faq.html>

TSIG support is new and isn't yet complete. Please use with caution on production systems. Feedback on TSIG functionality would be most welcome.

9. DNSSEC

The extensions to enable the DNSSEC signature generation and verification

functions are distributed separately as Net::DNS::SEC. The package is available from CPAN.

10. BUGS

Net::DNS, although begun in 1997, is still under development and may still contain a few bugs. Please see CPAN RT and Changes file for more information.

We

recommend that you exercise caution when using Net::DNS to maintain a production nameserver via dynamic updates. Always test your code *thoroughly*. The Net::DNS authors accept no blame if you corrupt your zone. That warning in place, We are aware of one large company that has used Net::DNS to make thousands of dynamic updates per day for at least three years without any problems.

Please use the following form to submit bug reports:

<https://rt.cpan.org/NoAuth/ReportBug.html?Queue=Net-DNS>

If you find any bugs, please report each in a separate "rt.cpan.org" report along with the following information:

- * subject field containing a concise descriptive summary
- * version of Perl (output of 'perl -V' is best)
- * version of Net::DNS
- * operating system type and version
- * version of nameserver (if known)
- * exact text of error message or description of problem
- * the shortest possible program that exhibits the problem
- * the specific queries you are making, if the fault can be

demonstrated using Internet nameservers

If we do not have access to a system similar to yours, you may be asked to insert some debugging lines and report back on the results. The more focussed the help and information you provide, the better.

Net::DNS is currently maintained at NLnet Labs (www.nlnetlabs.nl) by: Willem Toorop.

Between 2005 and 2012 Net::DNS was maintained by:
Olaf Kolkman and his team.

Between 2002 and 2004 Net::DNS was maintained by Chris Reinhardt.

Net::DNS was created in 1997 by Michael Fuhr.

11. COPYRIGHT

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13. STAYING TUNED

<http://www.net-dns.org> is a web site dedicated to the development of Net::DNS. Announcements about Net::DNS and Net::DNS::SEC will be done through the Net::DNS weblog at <http://www.net-dns.org/blog/>. An RSS feed for the weblog is available.

If you want to have access to the latest and greatest code a subversion repository is made available through

<http://www.net-dns.org/svn/net-dns/>

The version on the "trunk" (<http://www.net-dns.org/svn/net-dns/trunk>) is

the version that is targeted for next release.

Please note that code from the SVN repositories trunk and development branches may be broken at any time.

14. ACKNOWLEDGMENTS

Thanks to Mike for letting me take care of his baby.

Thanks to Chris for maintaining Net::DNS for a couple of years.

Thanks to Olaf for maintaining Net::DNS for over eight years.

Thanks to Rob Brown and Dick Franks for all their patches and input.

Thanks to all who have used Net::DNS and reported bugs, made suggestions, contributed code, and encouraged me to add certain features. Many of these people are mentioned by name in the Changes file; lack of mention should be considered an oversight and not a conscious act of omission.

Thanks to Larry Wall and all who have made Perl possible.

Thanks

to Paul Albitz and Cricket Liu for allowing me [OK: that is Mike] to write the Net::DNS section in the programming chapter of DNS and BIND, 3rd Edition. This chapter in earlier editions was very helpful while I was developing Net::DNS, and I was proud to contribute to it.

Thanks to Paul Vixie and all who have worked on the BIND nameserver, which I've used exclusively while developing Net::DNS.

Thanks to Andreas Gustafsson for DNAME support, and for all the work he has done on BIND 9.

Olaf acknowledges the RIPE NCC for allowing Net::DNS maintenance to take place as part of 'the job'.

Thanks to the team that maintains wireshark. Without its marvelous interface, debugging of bugs in wireformat would be so much more difficult.

Thanks to the thousands who participate in the open-source community. I have always developed Net::DNS using open-source systems and I am proud to make Net::DNS freely available to the world.

---- \$Id: README 1692 2018-07-06 08:55:39Z willem \$

Found

in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/README

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

=head1 SYNOPSIS

```
use Net::DNS;
```

```
$rr = new Net::DNS::RR('name LOC latitude longitude altitude size hp vp');
```

=head1 DESCRIPTION

DNS geographical location (LOC) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 latitude

```
$latitude = $rr->latitude;
```

```
($deg, $min, $sec, $ns) = $rr->latitude;
```

```
$rr->latitude( 42.357990 );
```

```
$rr->latitude( 42, 21, 28.764, 'N' );
```

```
$rr->latitude( '42 21 28.764 N' );
```

When invoked in scalar context, latitude is returned in degrees, a negative ordinate being south of the equator.

When invoked in list context, latitude is returned as a list of separate degree, minute, and second values followed by N or S as appropriate.

Optional replacement values may be represented as single value, list or formatted string. Trailing zero values are optional.

=head2 longitude


```
$longitude = $rr->longitude;  
($deg, $min, $sec, $ew ) = $rr->longitude;
```

```
$rr->longitude( -71.014338 );  
$rr->longitude( 71, 0, 51.617, 'W' );  
$rr->longitude( '71 0 51.617 W' );
```

When invoked in scalar context, longitude is returned in degrees, a negative ordinate being west of the prime meridian.

When invoked in list context, longitude is returned as a list of separate degree, minute, and second values followed by E or W as appropriate.

=head2 altitude

```
$altitude = $rr->altitude;
```

Represents altitude, in metres, relative to the WGS 84 reference spheroid used by GPS.

=head2 size

```
$size = $rr->size;
```

Represents the diameter, in metres, of a sphere enclosing the described entity.

=head2 hp

```
$hp = $rr->hp;
```

Represents the horizontal precision of the data expressed as the diameter,
in metres, of the circle of error.

=head2 vp

```
$vp = $rr->vp;
```

Represents the vertical precision of the data expressed as the total spread, in metres, of the distribution of possible values.

=head2 latlon

```
($lat, $lon) = $rr->latlon;  
$rr->latlon($lat, $lon);
```

Representation of the latitude and longitude coordinate pair as signed floating-point degrees.

=head2 version

\$version = \$rr->version;

Version of LOC protocol.

=head1 COPYRIGHT

Copyright (c)1997 Michael Fuhr.

Portions Copyright (c)2011 Dick Franks.

All rights reserved.

Package template (c)2009,2012 O.M.Kolkman and R.W.Franks.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1876

=cut

Found in path(s):

* /libnet-dns-perl-1.22-orig.tar.gz/Net-DNS-1.22/lib/Net/DNS/RR/LOC.pm

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

=head1 SYNOPSIS

```
use Net::DNS;

$resolver = new Net::DNS::Resolver();

# Perform a lookup, using the searchlist if appropriate.
$reply = $resolver->search( 'example.com' );

# Perform a lookup, without the searchlist
$reply = $resolver->query( 'example.com', 'MX' );

# Perform a lookup, without pre or post-processing
$reply = $resolver->send( 'example.com', 'MX', 'IN' );

# Send a prebuilt query packet
$query = new Net::DNS::Packet( ... );
$reply = $resolver->send( $query );
```

=head1 DESCRIPTION

Instances of the Net::DNS::Resolver class represent resolver objects. A program may have multiple resolver objects, each maintaining its own state information such as the nameservers to be queried, whether recursion is desired, etc.

=head1 METHODS

=head2 new

```
# Use the default configuration
$resolver = new Net::DNS::Resolver();

# Use my own configuration file
$resolver
= new Net::DNS::Resolver( config_file => '/my/dns.conf' );

# Set options in the constructor
$resolver = new Net::DNS::Resolver(
nameservers => [ '2001:DB8::1', 'ns.example.com' ],
recurse    => 0,
debug      => 1
);
```

Returns a resolver object. If no arguments are supplied, C<new()>

returns an object having the default configuration.

On Unix and Linux systems,
the default values are read from the following files,
in the order indicated:

=over

F</etc/resolv.conf>,
F<\$HOME/.resolv.conf>,
F<./resolv.conf>

=back

The following keywords are recognised in resolver configuration files:

=over

B<nameserver> address

IP address of a name server that the resolver should query.

B<domain> localdomain

The domain suffix to be appended to a short non-absolute name.

B<search> domain ...

A space-separated list of domains in the desired search path.

B<options> option:value ...

A space-separated list of key:value items.

=back

Except for F</etc/resolv.conf>, files will only
be read if owned by the
effective userid running the program. In addition, several environment
variables may contain configuration information; see L</ENVIRONMENT>.

Note that the domain and searchlist keywords are mutually exclusive.
If both are present, the resulting behaviour is unspecified.
If neither is present, the domain is determined from the local hostname.

On Windows systems, an attempt is made to determine the system defaults
using the registry. Systems with many dynamically configured network

interfaces may confuse L<Net::DNS>.

```
# Use my own configuration file
$resolver = new Net::DNS::Resolver( config_file => '/my/dns.conf' );
```

You can include a configuration file of your own when creating a resolver object. This is supported on both Unix and Windows.

If a custom configuration file is specified at first instantiation, all other configuration files and environment variables are ignored.

```
# Set options in the constructor
$resolver = new Net::DNS::Resolver(
nameservers
=> [ '2001:DB8::1', 'ns.example.com' ],
recurse    => 0
);
```

Explicit arguments to C<new()> override the corresponding configuration variables. The argument list consists of a sequence of (name=>value) pairs, each interpreted as an invocation of the corresponding method.

```
=head2 print
```

```
$resolver->print;
```

Prints the resolver state on the standard output.

```
=head2 query
```

```
$packet = $resolver->query( 'mailhost' );
$packet = $resolver->query( 'mailhost.example.com' );
$packet = $resolver->query( '2001:DB8::1' );
$packet = $resolver->query( 'example.com', 'MX' );
$packet = $resolver->query( 'annotation.example.com', 'TXT', 'IN' );
```

Performs a DNS query for the given name; the search list is not applied.

If C<defnames> is true, the default domain will be appended to unqualified names.

The record type and class can be omitted; they default to A and IN.

If the name looks like an IP address (IPv4 or IPv6), then a query within in-addr.arpa or ip6.arpa will be performed.

Returns a L<Net::DNS::Packet> object, or C<undef> if no answers were found.
The reason for failure may be determined using C<errorstring()>.

If you need to examine the response packet, whether it contains any answers or not, use the C<send()> method instead.

=head2 search

```
$packet = $resolver->search( 'mailhost' );  
$packet = $resolver->search( 'mailhost.example.com' );  
$packet = $resolver->search( '2001:DB8::1' );  
$packet = $resolver->search( 'example.com', 'MX' );  
$packet = $resolver->search( 'annotation.example.com', 'TXT', 'IN' );
```

Performs a DNS query for the given name, applying the searchlist if appropriate. The search algorithm is as follows:

If the name contains one or more non-terminal dots,
perform an initial query using the unmodified name.

If the number of dots is less than C<ndots>, and there is no terminal dot,
try appending each suffix in the search list.

The record type and class can be omitted; they default to A and IN.

If
the name looks like an IP address (IPv4 or IPv6),
then a query within in-addr.arpa or ip6.arpa will be performed.

Returns a L<Net::DNS::Packet> object, or C<undef> if no answers were found.
The reason for failure may be determined using C<errorstring()>.

If you need to examine the response packet, whether it contains any answers or not, use the C<send()> method instead.

=head2 send

```
$packet = $resolver->send( $query );  
  
$packet = $resolver->send( 'mailhost.example.com' );  
$packet = $resolver->send( '2001:DB8::1' );  
$packet = $resolver->send( 'example.com', 'MX' );  
$packet = $resolver->send( 'annotation.example.com', 'TXT', 'IN' );
```

Performs a DNS query for the given name.
Neither the searchlist nor the default domain will be appended.

The argument list can be either a pre-built query L<Net::DNS::Packet> or a list of strings.

The record type and class can be omitted; they default to A and IN.

If the name looks like an IP address (IPv4 or IPv6), then a query within in-addr.arpa or ip6.arpa will be performed.

Returns a L<Net::DNS::Packet> object whether there were any answers or not.

Use C<< \$packet->header->ancount >> or C<< \$packet->answer >> to find out if there were any records in the answer section.

Returns C<undef> if no response was received.

=head2 axfr

```
@zone = $resolver->axfr();
@zone = $resolver->axfr( 'example.com' );
@zone = $resolver->axfr( 'example.com', 'IN' );

$iterator = $resolver->axfr();
$iterator = $resolver->axfr( 'example.com' );
$iterator = $resolver->axfr( 'example.com', 'IN' );

$rr = $iterator->();
```

Performs a zone transfer using the resolver nameservers list, attempted in the order listed.

If the zone is omitted, it defaults to the first zone listed in the resolver search list.

If the class is omitted, it defaults to IN.

When called in list context, C<axfr()> returns a list of L<Net::DNS::RR> objects. The redundant SOA record that terminates the zone transfer is not returned to the caller.

In deference to RFC1035(6.3), a complete zone transfer is expected to return all records in the zone or nothing at all.

When no resource records are returned by C<axfr()>, the reason for failure may be determined using C<errorstring()>.

Here is an example that uses a timeout and TSIG verification:

```
$resolver->tcp_timeout( 10 );
$resolver->tsig( 'K hmac-sha1.example.+161+24053.private' );
```

```
@zone = $resolver->axfr( 'example.com' );
```

```
foreach $rr (@zone) {  
$rr->print;  
}
```

When called in scalar context, `C<axfr()>` returns an iterator object. Each invocation of the iterator returns a single `L<Net::DNS::RR>` or `C<undef>` when the zone is exhausted.

An exception is raised if the zone transfer can not be completed.

The redundant SOA record that terminates the zone transfer is not returned to the caller.

Here is the example above, implemented using an iterator:

```
$resolver->tcp_timeout( 10 );  
$resolver->tsig( 'K hmac-sha1.example.+161+24053.private' );  
$iterator = $resolver->axfr( 'example.com' );  
  
while ( $rr = $iterator->() ) {  
$rr->print;  
}
```

`=head2 bgsend`

```
$handle = $resolver->bgsend( $packet ) || die $resolver->errorstring;
```

```
$handle = $resolver->bgsend( 'mailhost.example.com' );  
$handle = $resolver->bgsend( '2001:DB8::1' );  
$handle = $resolver->bgsend( 'example.com', 'MX' );  
$handle = $resolver->bgsend( 'annotation.example.com', 'TXT', 'IN' );
```

Performs a background DNS query for the given name and returns immediately without waiting for the response. The program can then perform other tasks while awaiting the response from the nameserver.

The argument list can be either a `L<Net::DNS::Packet>` object or a list of strings. The record type and class can be omitted; they default to A and IN. If the name looks like an IP address (IPv4 or IPv6), then a query within `in-addr.arpa` or `ip6.arpa` will be performed.

Returns an opaque handle which is passed to subsequent invocations of the `C<bgbusy()>` and

C<bgsend()> methods.

Errors are indicated by returning C<undef> in which case the reason for failure may be determined using C<errorstring()>.

The response L<Net::DNS::Packet> object is obtained by calling C<bgsend()>.

B<BEWARE>:

Programs should make no assumptions about the nature of the handles returned by C<bgsend()> which should be used strictly as described here.

=head2 bgsend

```
$handle = $resolver->bgsend( 'www.example.com' );  
$packet = $resolver->bgsend($handle);
```

Reads the response following a background query.
The argument is the handle returned by C<bgsend()>.

Returns a L<Net::DNS::Packet> object or C<undef> if no response was received before the timeout interval expired.

=head2 bgbusy

```
$handle = $resolver->bgsend( 'foo.example.com' );  
  
while ($resolver->bgbusy($handle)) {  
...  
}  
  
$packet = $resolver->bgsend($handle);
```

Returns true while awaiting the response or for the transaction to time out.
The argument is the handle returned by C<bgsend()>.

Truncated

UDP packets will be retried transparently using TCP while continuing to assert busy to the caller.

=head2 debug

```
print 'debug flag: ', $resolver->debug, "\n";  
$resolver->debug(1);
```

Get or set the debug flag.

If set, calls to C<search()>, C<query()>, and C<send()> will print

debugging information on the standard output.

The default is false.

=head2 defnames

```
print 'defnames flag: ', $resolver->defnames, "\n";
$resolver->defnames(0);
```

Get or set the defnames flag.

If true, calls to C<query()> will append the default domain to resolve names that are not fully qualified.

The default is true.

=head2 dnsrch

```
print 'dnsrch flag: ', $resolver->dnsrch, "\n";
$resolver->dnsrch(0);
```

Get or set the dnsrch flag.

If true, calls to C<search()> will apply the search list to resolve names that are not fully qualified.

The default is true.

=head2 domain

```
$domain = $resolver->domain;
$resolver->domain( 'domain.example' );
```

Gets or sets the resolver default domain.

=head2 igntc

```
print 'igntc flag: ', $resolver->igntc, "\n";
$resolver->igntc(1);
```

Get or set the igntc flag.

If true, truncated packets will be ignored.

If false, the query will be retried using TCP.

The default is false.

=head2 nameserver, nameservers

```
@nameservers = $resolver->nameservers();  
$resolver->nameservers( '2001:DB8::1', '192.0.2.1' );  
$resolver->nameservers( 'ns.domain.example.' );
```

Gets or sets the nameservers to be queried.

Also see the IPv6 transport notes below

=head2 persistent_tcp

```
print 'Persistent TCP flag: ', $resolver->persistent_tcp, "\n";  
$resolver->persistent_tcp(1);
```

Get or set the persistent TCP setting.

If true, L<Net::DNS> will keep a TCP socket open for each host:port to which it connects.

This is useful if you are using TCP and need to make a lot of queries or updates to the same nameserver.

The default is false unless you are running a SOCKSified Perl, in which case the default is true.

=head2 persistent_udp

```
print 'Persistent UDP flag: ', $resolver->persistent_udp, "\n";  
$resolver->persistent_udp(1);
```

Get or set the persistent UDP setting.

If true, a L<Net::DNS> resolver will use the same UDP socket for all queries within each address family.

This avoids the cost of creating and tearing down UDP sockets, but also defeats source port randomisation.

=head2 port

```
print 'sending queries to port ', $resolver->port, "\n";  
$resolver->port(9732);
```

Gets or sets the port to which queries are sent.

Convenient for nameserver testing using a non-standard port.

The default is port 53.

=head2 recurse

```
print 'recursion flag: ', $resolver->recurse, "\n";  
$resolver->recurse(0);
```

Get or set the recursion flag.

If true, this will direct nameservers to perform a recursive query.

The default is true.

=head2 retrans

```
print 'retrans interval: ', $resolver->retrans, "\n";  
$resolver->retrans(3);
```

Get or set the retransmission interval

The default is 5 seconds.

=head2 retry

```
print 'number of tries: ', $resolver->retry, "\n";  
$resolver->retry(2);
```

Get or set the number of times to try the query.

The default is 4.

=head2 searchlist

```
@searchlist = $resolver->searchlist;  
$resolver->searchlist( 'a.example', 'b.example', 'c.example' );
```

Gets or sets the resolver search list.

=head2 srcaddr

```
$resolver->srcaddr('2001::DB8::1');
```

Sets the source address from which queries are sent.

Convenient for forcing queries from a specific interface on a multi-homed host. The default is to use any local address.

=head2 srcport

```
$resolver->srcport(5353);
```

Sets the port from which queries are sent.

The default is 0, meaning any port.

```
=head2 tcp_timeout
```

```
print 'TCP timeout: ', $resolver->tcp_timeout, "\n";  
$resolver->tcp_timeout(10);
```

Get or set the TCP timeout in seconds.

The default is 120 seconds (2 minutes).

```
=head2 udp_timeout
```

```
print 'UDP timeout: ', $resolver->udp_timeout, "\n";  
$resolver->udp_timeout(10);
```

Get or set the

bgsend() UDP timeout in seconds.

The default is 30 seconds.

```
=head2 udppacketsize
```

```
print "udppacketsize: ", $resolver->udppacketsize, "\n";  
$resolver->udppacketsize(2048);
```

Get or set the UDP packet size.

If set to a value not less than the default DNS packet size,
an EDNS extension will be added indicating support for
large UDP datagrams.

```
=head2 usevc
```

```
print 'usevc flag: ', $resolver->usevc, "\n";  
$resolver->usevc(1);
```

Get or set the usevc flag.

If true, queries will be performed using virtual circuits (TCP)
instead of datagrams (UDP).

The default is false.

```
=head2 replyfrom
```

```
print 'last response was from: ', $resolver->replyfrom, "\n";
```

Returns the IP address from which the most recent packet was received in response to a query.

=head2 errorstring

```
print 'query status: ', $resolver->errorstring, "\n";
```

Returns a string containing error information from the most recent DNS protocol interaction.

C<errorstring()> is meaningful only when interrogated immediately after the corresponding method call.

=head2 dnssec

```
print "dnssec flag: ", $resolver->dnssec, "\n";  
$resolver->dnssec(0);
```

The dnssec flag causes the resolver to transmit DNSSEC queries and to add a EDNS0 record as required by RFC2671 and RFC3225. The actions of, and response from, the remote nameserver is determined by the settings of the AD and CD flags.

Calling the C<dnssec()> method with a non-zero value will also set the UDP packet size to the default value of 2048. If that is too small or too big for your environment, you should call the C<udppacketsize()> method immediately after.

```
$resolver->dnssec(1); # DNSSEC using default packetsize  
$resolver->udppacketsize(1250); # lower the UDP packet size
```

A fatal exception will be raised if the C<dnssec()> method is called but the L<Net::DNS::SEC> library has not been installed.

=head2 adflag

```
$resolver->dnssec(1);  
$resolver->adflag(1);  
print "authentication desired flag: ", $resolver->adflag, "\n";
```

Gets

or sets the AD bit for dnssec queries. This bit indicates that the caller is interested in the returned AD (authentic data) bit but does not require any dnssec RRs to be included in the response.

The default value is false.

```
=head2 cdflag
```

```
$resolver->dnssec(1);  
$resolver->cdflag(1);  
print "checking disabled flag: ", $resolver->cdflag, "\n";
```

Gets or sets the CD bit for dnssec queries. This bit indicates that authentication by upstream nameservers should be suppressed. Any dnssec RRs required to execute the authentication procedure should be included in the response. The default value is false.

```
=head2 tsig
```

```
$resolver->tsig( $tsig );  
  
$resolver->tsig( 'Hmac-sha1.example.+161+24053.private' );  
  
$resolver->tsig( 'Hmac-sha1.example.+161+24053.key' );  
  
$resolver->tsig( 'Hmac-sha1.example.+161+24053.key',  
fudge => 60  
);  
  
$resolver->tsig( $key_name, $key );  
  
$resolver->tsig( undef );
```

Set the TSIG record used to automatically sign outgoing queries, zone transfers and updates. Automatic signing is disabled if called with undefined arguments.

The default resolver behaviour is not to sign any packets. You must call this method to set the key if you would like the resolver to sign and verify packets automatically.

Packets can also be signed manually; see the L<Net::DNS::Packet> and L<Net::DNS::Update> manual pages for examples. TSIG records in manually-signed packets take precedence over those that the resolver would add automatically.

```
=head1 ENVIRONMENT
```

The following environment variables can also be used to configure the resolver:

=head2 RES_NAMESERVERS

```
# Bourne Shell
RES_NAMESERVERS="2001:DB8::1 192.0.2.1"
export RES_NAMESERVERS

# C Shell
setenv RES_NAMESERVERS "2001:DB8::1 192.0.2.1"
```

A space-separated list of nameservers to query.

=head2 RES_SEARCHLIST

```
# Bourne Shell
RES_SEARCHLIST="a.example.com b.example.com c.example.com"
export RES_SEARCHLIST

# C Shell
setenv RES_SEARCHLIST
"a.example.com b.example.com c.example.com"
```

A space-separated list of domains to put in the search list.

=head2 LOCALDOMAIN

```
# Bourne Shell
LOCALDOMAIN=example.com
export LOCALDOMAIN

# C Shell
setenv LOCALDOMAIN example.com
```

The default domain.

=head2 RES_OPTIONS

```
# Bourne Shell
RES_OPTIONS="retrans:3 retry:2 inet6"
export RES_OPTIONS

# C Shell
setenv RES_OPTIONS "retrans:3 retry:2 inet6"
```

A space-separated list of resolver options to set. Options that

take values are specified as C<option:value>.

=head1 IPv4 TRANSPORT

The C<force_v4()>, C<force_v6()>, C<prefer_v4()>, and C<prefer_v6()> methods with non-zero argument may be used to configure transport selection.

The behaviour of the C<nameserver()> method illustrates the transport selection mechanism. If, for example, IPv4 transport has been forced, the C<nameserver()> method will only return IPv4 addresses:

```
$resolver->nameservers( '192.0.2.1', '192.0.2.2', '2001:DB8::3'
);
$resolver->force_v4(1);
print join ' ', $resolver->nameservers();
```

will print

```
192.0.2.1 192.0.2.2
```

=head1 CUSTOMISED RESOLVERS

Net::DNS::Resolver is actually an empty subclass. At compile time a super class is chosen based on the current platform. A side benefit of this allows for easy modification of the methods in Net::DNS::Resolver. You can simply add a method to the namespace!

For example, if we wanted to cache lookups:

```
package Net::DNS::Resolver;

my %cache;

sub search {
$self = shift;

$cache{"@_"} ||= $self->SUPER::search(@_);
}
```

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Packet>, L<Net::DNS::Update>,
L<Net::DNS::Header>, L<Net::DNS::Question>, L<Net::DNS::RR>,
L<resolver(5)>, RFC 1034, RFC 1035

=cut

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Resolver.pm

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

=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name IN APL aplist');
```

=head1 DESCRIPTION

DNS Address Prefix List (APL) record

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 aplist

```
@aplist = $rr->aplist;

@aplist = $rr->aplist( '1:192.168.32.0/21', '!1:192.168.38.0/28' );

@aplist = $rr->aplist( '1:224.0.0.0/4', '2:FF00:0:0:0:0:0:0/8' );

@aplist = $rr->aplist( negate => 1,
    family => 1,
    address => '192.168.38.0',
    prefix => 28,
    );
```

Ordered, possibly empty, list of address prefix items.
Additional items, if present, are appended to the existing list
with neither prefix aggregation
nor reordering.

=head2 Net::DNS::RR::APL::Item

Each element of the prefix list is a Net::DNS::RR::APL::Item
object which is inextricably bound to the APL record which
created it.

=head2 negate

```
$rr->negate(1);

if ( $rr->negate ) {
...
}
```

Boolean attribute indicating the prefix to be an address range exclusion.

=head2 family

```
$family = $rr->family;  
$rr->family( $family );
```

Address family discriminant.

=head2 prefix

```
$prefix = $rr->prefix;  
$rr->prefix( $prefix );
```

Number of bits comprising the address prefix.

=head2 address

```
$address = $object->address;
```

Address portion of the prefix list item.

=head2 string

```
$string = $object->string;
```

Returns the prefix list item in the form required in zone files.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC3123

=cut

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* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/APL.pm

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=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR('name RP mbox txtcname');
```

=head1 DESCRIPTION

Class for DNS Responsible Person (RP) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 mbox

```
$mbox = $rr->mbox;
$rr->mbox( $mbox );
```

A domain name which specifies the mailbox for the person responsible for this domain. The format in master files uses the DNS encoding convention for mailboxes, identical to that used for the RNAME mailbox field in the SOA RR. The root domain name (just ".") may be specified to indicate that no mailbox is available.

=head2 txtcname

```
$txtcname = $rr->txtcname;  
$rr->txtcname( $txtcname  
);
```

A domain name identifying TXT RRs. A subsequent query can be performed to retrieve the associated TXT records. This provides a level of indirection so that the entity can be referred to from multiple places in the DNS. The root domain name (just ".") may be specified to indicate that there is no associated TXT RR.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1183 Section 2.2

=cut

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/RP.pm

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

=head1 SYNOPSIS

```
use Net::DNS;

$rr = new Net::DNS::RR('name IN LP preference FQDN');

$rr = new Net::DNS::RR(
name    => 'example.com',
type    => 'LP',
preference => 10,
target  => 'target.example.com.'
);
```

=head1 DESCRIPTION

Class for DNS Locator Pointer (LP) resource records.

The LP DNS resource record (RR) is used to hold the name of a subnetwork for ILNP. The name is an FQDN which can then be used to look up L32 or L64 records. LP is, effectively, a Locator Pointer to L32 and/or L64 records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 preference

```
$preference = $rr->preference;
$rr->preference( $preference );
```

A

16 bit unsigned integer in network byte order that indicates the relative preference for this LP record among other LP records associated with this owner name. Lower values are preferred over higher values.

=head2 FQDN, fqdn

=head2 target

```
$target = $rr->target;  
$rr->target( $target );
```

The FQDN field contains the DNS target name that is used to reference L32 and/or L64 records.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC6742

=cut

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* /libnet-dns-perl-1.22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/LP.pm

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Question>,
L<Net::DNS::Packet>, L<Net::DNS::Update>,
RFC1035 Section 4.1.3, RFC1123, RFC3597

=cut

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=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name IN CAA flags tag value');
```

=head1 DESCRIPTION

Class for Certification Authority Authorization (CAA) DNS resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 flags

```
$flags = $rr->flags;  
$rr->flags( $flags );
```

Unsigned 8-bit number representing Boolean flags.

=over 4

=item critical

```
$rr->critical(1);
```

```
if ( $rr->critical ) {  
    ...  
}
```

Issuer critical flag.

=back

=head2 tag

```
$tag = $rr->tag;  
$rr->tag( $tag );
```

The property identifier, a sequence of ASCII characters.

Tag values may contain ASCII characters a-z, A-Z, and 0-9.

Tag values should not contain

any other characters.

Matching of tag values is not case sensitive.

=head2 value

```
$value = $rr->value;
```

```
$rr->value( $value );
```

A sequence of octets representing the property value.

Property values are encoded as binary values and may employ sub-formats.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC6844

=cut

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* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/CAA.pm

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

=head1 SYNOPSIS

```
use Net::DNS;
```

```
$rr = new Net::DNS::RR('name CDNSKEY flags protocol algorithm publickey');
```

=head1 DESCRIPTION

DNS Child DNSKEY resource record

This is a clone of the DNSKEY record and inherits all properties of the Net::DNS::RR::DNSKEY class.

Please see the L<Net::DNS::RR::DNSKEY> perl documentation for details.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, L<Net::DNS::RR::DNSKEY>, RFC7344, RFC8078(erratum 5049)

=cut

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/CDNSKEY.pm

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=head1 SYNOPSIS

```
use Net::DNS;

$rr = new Net::DNS::RR('name NULL \# length hexdata ...');
```

=head1 DESCRIPTION

Class for DNS null (NULL) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 rdlength

```
$rdlength = $rr->rdlength;
```

Returns the length of the record data section.

=head2 rdata

```
$rdata = $rr->rdata;
```

```
$rr->rdata( $rdata );
```

Returns the record data section as binary data.

```
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```

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```
=head1 SEE ALSO
```

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.3.10

```
=cut
```

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* /libnet-dns-perl-1.22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/NULL.pm

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abstract: 'Perl Interface to the Domain Name System'

author:

- 'Dick Franks'

```
- 'Olaf Kolkman'
- 'Michael Fuhr'
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150010'
license: mit
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Net-DNS
no_index:
  directory:
    - t
    - inc
recommends:
  Digest::BubbleBabble: '0.01'
  Net::LibIDN2: '1'
requires:
  Digest::HMAC: '1.03'
  Digest::MD5: '2.13'
  Digest::SHA: '5.23'
  File::Spec: '0.86'
  IO::File: '1.08'
  IO::Select: '1.14'
  IO::Socket::IP: '0.38'
  MIME::Base64: '2.13'
  PerlIO: '1.05'
  Scalar::Util: '1.25'
  Test::More: '0.52'
  Time::Local: '1.19'
  perl: '5.006'
version: '1.22'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'
```

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/META.yml

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=head1 SYNOPSIS

```
use Net::DNS;

$rr = new Net::DNS::RR('name MG mgmname');
```

=head1 DESCRIPTION

Class for DNS Mail Group (MG) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 mgmname

```
$mgmname = $rr->mgmname;  
$rr->mgmname( $mgmname );
```

A domain name which specifies a mailbox which is a member of the mail group specified by the owner name.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.3.6

=cut

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=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name X25 PSDNaddress');
```

=head1 DESCRIPTION

Class for DNS X25 resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 PSDNaddress

=head2 address

```
$address = $rr->address;  
$rr->address( $address );
```

The PSDN-address is a string of decimal digits, beginning with the 4 digit DNIC (Data Network Identification Code), as specified in X.121.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1183 Section 3.1

=cut

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/X25.pm

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=head1 SYNOPSIS

```
use Net::DNS;

$r = new Net::DNS::RR('name IN NID preference nodeid');
```

```
$r = new Net::DNS::RR(
name    => 'example.com',
type    => 'NID',
preference => 10,
nodeid   => '8:800:200C:417A'
);
```

=head1 DESCRIPTION

Class for DNS Node Identifier (NID) resource records.

The Node Identifier (NID) DNS resource record is used to hold values for Node Identifiers that will be used for ILNP-capable nodes.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 preference

```
$preference = $rr->preference;  
$rr->preference( $preference );
```

A 16 bit unsigned integer in network byte order that indicates the relative preference for this NID record among other NID records associated with this owner name. Lower values are preferred over higher values.

=head2 nodeid

```
$nodeid = $rr->nodeid;
```

The NodeID field is an unsigned 64-bit value in network byte order. The text representation uses the same syntax (i.e., groups of 4 hexadecimal digits separated by a colons) that is already used for IPv6 interface identifiers.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC6742

=cut

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=head1 NAME

mresolv - Perform multiple DNS lookups in parallel

=head1 SYNOPSIS

B<mresolv> S<[B<-d>]> S<[B<-n> I<number>]> S<[B<-t> I<timeout>]>
S<[I<filename>...]>

=head1 DESCRIPTION

B<mresolv> performs multiple DNS lookups in parallel. Names to query are read from the list of files given on the command line, or from the standard input.

=head1 OPTIONS

=over 4

=item B<-d>

Turn on debugging output.

=item B<-n> I<number>

Set the number of queries to have outstanding at any time.

=item B<-t> I<timeout>

Set the timeout in seconds. If no replies are received for this amount of time, all outstanding queries will be flushed and new names will be read from the input stream.

=back

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=head1 SEE ALSO

L<perl(1)>, L<axfr>, L<check_soa>, L<check_zone>, L<mx>, L<perldig>,
L<Net::DNS>

=cut

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* /libnet-dns-perl-1.22-orig-tar-gz/Net-DNS-1.22/demo/mresolv

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=head1 ACKNOWLEDGEMENTS

This package is designed as an improved and compatible replacement for Net::DNS::ZoneFile 1.04 which was created by Luis Munoz in 2002 as a separate CPAN module.

The present implementation is the result of an agreement to merge our two different approaches into one package integrated into Net::DNS. The contribution of Luis Munoz is gratefully acknowledged.

Thanks are also due to Willem Toorop for his constructive criticism of the initial version and invaluable assistance during testing.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 5.1, RFC2308, BIND 9 Administrator Reference Manual

=cut

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* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/ZoneFile.pm

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=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR('name SRV priority weight port target');
```

=head1 DESCRIPTION

Class for DNS Service (SRV) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data

structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 priority

```
$priority = $rr->priority;  
$rr->priority( $priority );
```

Returns the priority for this target host.

=head2 weight

```
$weight = $rr->weight;  
$rr->weight( $weight );
```

Returns the weight for this target host.

=head2 port

```
$port = $rr->port;  
$rr->port( $port );
```

Returns the port number for the service on this target host.

=head2 target

```
$target = $rr->target;  
$rr->target( $target );
```

Returns the
domain name of the target host.

=head1 Sorting of SRV Records

By default, `rrsort()` returns the SRV records sorted from lowest to highest priority and for equal priorities from highest to lowest weight.

Note: This is NOT the order in which connections should be attempted.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC2782

=cut

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=head1 SYNOPSIS

```
use Net::DNS;
```

```
$rr = new Net::DNS::RR('name SPF spfdata ...');
```

```
$rr = new Net::DNS::RR( name => 'name',  
    type => 'SPF',  
    spfdata => 'single text string'  
);
```

```
$rr = new Net::DNS::RR( name => 'name',  
    type => 'SPF',  
    spfdata => [ 'multiple', 'strings', ... ]  
);
```


=head1 DESCRIPTION

Class for DNS Sender Policy Framework (SPF) resource records.

SPF records inherit most of the properties of the Net::DNS::RR::TXT class.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 spfdata

=head2 txtdata

```
$string = $rr->spfdata;
```

```
@list = $rr->spfdata;
```

```
$rr->spfdata( @list  
);
```

When invoked in scalar context, spfdata() returns the policy text as a single string, with text elements concatenated without intervening spaces.

In a list context, spfdata() returns a list of the text elements.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, L<Net::DNS::RR::TXT>, RFC7208

=cut

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* /libnet-dns-perl-1.22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/SPF.pm

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=head1 METHODS

=head2 new

```
$nameserver = new Net::DNS::Nameserver(  
LocalAddr => [':1', '127.0.0.1'],  
ZoneFile => "filename"  
);
```

```
$nameserver = new Net::DNS::Nameserver(  
LocalAddr => '10.1.2.3',  
LocalPort => 5353,  
ReplyHandler => \&reply_handler,  
Verbose => 1,  
Truncate => 0  
);
```

Returns a Net::DNS::Nameserver object, or undef if the object could not be created.

Each instance is configured using the following optional arguments:

LocalAddr IP address on which to listen Defaults to loopback address
 LocalPort Port on which to listen Defaults to 53
 ZoneFile Name of file containing RRs
 accessed using the default
 reply-handling subroutine
 ReplyHandler Reference to customised
 reply-handling subroutine
 NotifyHandler Reference to reply-handling
 subroutine for queries with
 opcode NOTIFY (RFC1996)
 UpdateHandler Reference to reply-handling
 subroutine for queries
 with
 opcode UPDATE (RFC2136)
 Verbose Report internal activity Defaults to 0 (off)
 Truncate Truncates UDP packets that
 are too big for the reply Defaults to 1 (on)
 IdleTimeout TCP clients are disconnected
 if they are idle longer than
 this duration Defaults to 120 (secs)

The LocalAddr attribute may alternatively be specified as a list of IP addresses to listen to.

If the IO::Socket::IP library package is available on the system this may also include IPv6 addresses.

The ReplyHandler subroutine is passed the query name, query class, query type and optionally an argument containing the peerhost, the incoming query, and the name of the incoming socket (sockethost). It must either return the response code and references to the answer, authority, and additional sections of the response, or undef to leave the query unanswered. Common response codes are:

NOERROR No error
 FORMERR Format error
 SERVFAIL Server failure
 NXDOMAIN Non-existent domain (name
 doesn't exist)
 NOTIMP Not implemented
 REFUSED Query refused

For advanced usage it may also contain a headermask containing an hashref with the settings for the C<aa>, C<ra>, and C<ad> header bits. The argument is of the form C<< { ad => 1, aa => 0, ra => 1 } >>.

EDNS options may be specified in a similar manner using optionmask

```
C<< { $optioncode => $value, $optionname => $value } >>.
```

See RFC 1035 and the IANA dns-parameters file for more information:

<ftp://ftp.rfc-editor.org/in-notes/rfc1035.txt>

<http://www.isi.edu/in-notes/iana/assignments/dns-parameters>

The nameserver will listen for both UDP and TCP connections. On Unix-like systems, the program will probably have to run as root to listen on the default port, 53. A non-privileged user should be able to listen on ports 1024 and higher.

UDP reply truncation functionality was introduced in VERSION 830. The size limit is determined by the EDNS0 size advertised in the query, otherwise 512 is used.

If you want to do

packet truncation yourself you should set C<Truncate>

to 0 and truncate the reply packet in the code of the ReplyHandler.

See L</EXAMPLE> for an example.

```
=head2 main_loop
```

```
    $ns->main_loop;
```

Start accepting queries. Calling main_loop never returns.

```
=head2 loop_once
```

```
    $ns->loop_once( [TIMEOUT_IN_SECONDS] );
```

Start accepting queries, but returns. If called without a parameter, the call will not return until a request has been received (and replied to). Otherwise, the parameter specifies the maximum time to wait for a request. A zero timeout forces an immediate return if there is nothing to do.

Handling a request and replying obviously depends on the speed of ReplyHandler. Assuming a fast ReplyHandler, loop_once should spend just a fraction of a second, if called with a timeout value of 0.0 seconds. One exception is when an AXFR has requested a huge amount of data that the OS is not ready to receive in full. In that case, it will remain in a loop (while servicing new requests) until the reply has been sent.

In case loop_once accepted a TCP connection it will immediately check if there is data to be read from the socket. If not it will return and you

will have to call `loop_once()` again to check if there is any data waiting on the socket to be processed. In most cases you will have to count on calling "loop_once" twice.

A code fragment like:

```
$ns->loop_once(10);
while( $ns->get_open_tcp() ){
$ns->loop_once(0);
}
```

Would wait for 10 seconds for the initial connection and would then process all TCP sockets until none is left.

=head2 get_open_tcp

In scalar context returns the number of TCP connections for which state is maintained. In array context it returns `IO::Socket` objects, these could be useful for troubleshooting but be careful using them.

=head1 EXAMPLE

The following example will listen on port 5353 and respond to all queries for A records with the IP address 10.1.2.3. All other queries will be answered with NXDOMAIN. Authority and additional sections are left empty.

The `$peerhost` variable catches the IP address of the peer host, so that additional filtering on its basis may be applied.

```
#!/usr/bin/perl

use strict;
use warnings;
use Net::DNS::Nameserver;

sub reply_handler {
my ( $qname, $qclass, $qtype, $peerhost, $query, $conn ) = @_;
my ( $rcode, @ans, @auth, @add );

print "Received query from $peerhost to " . $conn->{sockhost} . "\n";
$query->print;

if ( $qtype eq "A" && $qname eq "foo.example.com" ) {
my ( $ttl, $rdata ) = ( 3600, "10.1.2.3" );
my $rr = new Net::DNS::RR("$qname $ttl $qclass $qtype $rdata");
push @ans, $rr;
```

```

$rcode = "NOERROR";
} elsif ( $qname eq "foo.example.com" ) {
$rcode = "NOERROR";

} else {
$rcode = "NXDOMAIN";
}

# mark the answer as authoritative (by setting the 'aa' flag)
my $headermask = {aa => 1};

# specify EDNS options { option => value }
my $optionmask = {};

return ( $rcode, \@ans, \@auth, \@add, $headermask, $optionmask );
}

```

```

my $ns = new Net::DNS::Nameserver(
LocalPort => 5353,
ReplyHandler => \&reply_handler,
Verbose => 1
) || die "couldn't create nameserver object\n";

```

```
$ns->main_loop;
```

=head1 BUGS

Limitations in perl 5.8.6 makes it impossible to guarantee that replies to UDP queries from Net::DNS::Nameserver are sent from the IP-address they were received on. This is a problem for machines with multiple IP-addresses and causes violation of RFC2181 section 4. Thus a UDP socket created listening to INADDR_ANY (all available IP-addresses) will reply not necessarily with the source address being the one to which the request was sent, but rather with the address that the operating system chooses. This is also often called "the closest address". This should really only be a problem on a server which has more than one IP-address (besides localhost - any experience with IPv6 complications here, would be nice). If this is a problem for you, a work-around would be to not listen to INADDR_ANY but to specify each address that you want this module to listen on. A separate set of sockets will then be created for each IP-address.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Resolver>, L<Net::DNS::Packet>,
L<Net::DNS::Update>, L<Net::DNS::Header>, L<Net::DNS::Question>,
L<Net::DNS::RR>, RFC 1035

=cut

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=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name URI priority weight target');
```

=head1 DESCRIPTION

Class for DNS Service (URI) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 priority

```
$priority = $rr->priority;  
$rr->priority( $priority );
```

The priority of the target URI in this RR.

The range of this number is 0-65535.

A client **MUST** attempt to contact the URI with the lowest-numbered priority it can reach; weighted selection being used to distribute load across targets with equal priority.

=head2 weight

```
$weight = $rr->weight;  
$rr->weight( $weight );
```

A server selection mechanism. The weight

field specifies a relative

weight for entries with the same priority. Larger weights **SHOULD** be given a proportionately higher probability of being selected. The range of this number is 0-65535.

=head2 target

```
$target = $rr->target;  
$rr->target( $target );
```

The URI of the target. Resolution of the URI is according to the definitions for the Scheme of the URI.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>,
RFC7553

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#####

=head1 BUGS

Coding strategy is intended to avoid creating unnecessary argument lists and stack frames. This improves efficiency at the expense of code readability.

Platform specific character coding features are conditionally compiled into the code.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, RFC1035, RFC3629, Unicode TR#16

=cut

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* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Text.pm

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=head1 SYNOPSIS

use Net::DNS;

\$rr = new Net::DNS::RR('name GPOS latitude longitude altitude');

=head1 DESCRIPTION

Class for DNS Geographical Position (GPOS) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 latitude

```
$latitude = $rr->latitude;  
$rr->latitude( $latitude );
```

Floating-point representation of latitude, in degrees.

=head2 longitude

```
$longitude = $rr->longitude;  
$rr->longitude( $longitude );
```

Floating-point representation of longitude, in degrees.

=head2 altitude

```
$altitude = $rr->altitude;  
$rr->altitude( $altitude );
```

Floating-point representation of altitude, in metres.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1712

=cut

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=head1 SYNOPSIS

```
use Net::DNS;

$r = new Net::DNS::RR('name IN EUI64 address');
```

```

    $r = new Net::DNS::RR(
name => 'example.com',
type => 'EUI64',
address => '00-00-5e-ef-10-00-00-2a'
    );
```

=head1 DESCRIPTION

DNS resource records for 64-bit Extended Unique Identifier (EUI64).

The EUI64 resource record is used to represent IEEE Extended Unique Identifiers used in various layer-2 networks, ethernet for example.

EUI64 addresses SHOULD NOT be published in the public DNS. RFC7043 describes potentially severe privacy implications resulting from indiscriminate publication of link-layer addresses in the DNS.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2

address

The address field is a 8-octet layer-2 address in network byte order.

The presentation format is hexadecimal separated by "-".

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC7043

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=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name DNAME target');
```

=head1 DESCRIPTION

Class for DNS Non-Terminal Name Redirection (DNAME) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 target

```
$target = $rr->target;  
$rr->target( $target );
```

Redirection target domain name which is to be substituted for its owner as a suffix of a domain name.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC6672

=cut

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/DNAME.pm

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

=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR('name IN A address');
```

```
$rr = new Net::DNS::RR(
name => 'example.com',
type => 'A',
address => '192.0.2.1'
);
```

=head1 DESCRIPTION

Class for DNS Address (A) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data

structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 address

```
$IPv4_address = $rr->address;  
$rr->address( $IPv4_address );
```

Version 4 IP address represented using dotted-quad notation.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.4.1

=cut

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* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/A.pm

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=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name NS nsdname');
```

```
$rr = new Net::DNS::RR(  
name => 'example.com',  
type => 'NS',  
nsdname => 'ns.example.com',  
);
```

=head1 DESCRIPTION

Class for DNS Name Server (NS) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 nsdname

```
$nsdname = $rr->nsdname;  
$rr->nsdname( $nsdname );
```

A domain name which specifies a host which should be authoritative for the specified class and domain.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.3.11

=cut

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* /libnet-dns-perl-1.22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/NS.pm

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=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name PTR ptrdname');
```

=head1 DESCRIPTION

Class for DNS Pointer (PTR) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented
by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data
structures is discouraged and could result in program termination or
other unpredictable behaviour.

=head2 ptrdname

```
$ptrdname = $rr->ptrdname;  
$rr->ptrdname( $ptrdname );
```

A domain name which points to some location in the domain name space.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.3.12

=cut

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=head1 SYNOPSIS

```

use Net::DNS;
$rr = new Net::DNS::RR('name IN L64 preference locator64');

$rr = new Net::DNS::RR(
name    => 'example.com',
type    => 'L64',
preference => 10,
locator64 => '2001:0DB8:1140:1000'
);

```

=head1 DESCRIPTION

Class for DNS 64-bit Locator (L64) resource records.

The L64 resource record is used to hold 64-bit Locator values for ILNPv6-capable nodes.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 preference

```

$preference = $rr->preference;
$rr->preference( $preference );

```

A 16 bit unsigned integer in network byte order that indicates the relative preference for this L64 record among other L64 records associated

with this owner name. Lower values are preferred over higher values.

=head2 locator64

```

$locator64 = $rr->locator64;

```

The Locator64 field is an unsigned 64-bit integer in network byte order that has the same syntax and semantics as a 64-bit IPv6 routing prefix.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC6742

=cut

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* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/L64.pm

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=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR('name SMIMEA usage selector matchingtype certificate');
```

=head1 DESCRIPTION

The SMIMEA DNS resource record (RR) is used to associate an end entity certificate or public key with the associated email address,

thus forming a "SMIMEA certificate association".

The semantics of how the SMIMEA RR is interpreted are described in RFC6698.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 usage

```
$usage = $rr->usage;  
$rr->usage( $usage );
```

8-bit integer value which specifies the provided association that will be used to match the certificate.

=head2 selector

```
$selector = $rr->selector;  
$rr->selector( $selector );
```

8-bit integer value which specifies which part of the certificate presented by the server will be matched against the association data.

=head2 matchingtype

```
$matchingtype = $rr->matchingtype;  
$rr->matchingtype( $matchingtype );
```

8-bit integer value which specifies how the certificate association is presented.

=head2 certificate

=head2 cert

```
$cert = $rr->cert;  
$rr->cert( $cert );
```

Hexadecimal representation of the certificate data.

=head2 certbin

```
$certbin = $rr->certbin;  
$rr->certbin( $certbin );
```

Binary representation of the certificate data.

```
=head2 babble
```

```
print $rr->babble;
```

The babble() method returns the 'BubbleBabble' representation of the digest if the Digest::BubbleBabble package is available, otherwise an empty string is returned.

BubbleBabble represents a message digest as a string of plausible words, to make the digest easier to verify. The "words" are not necessarily real words, but they look more like words than a string of hex characters.

The 'BubbleBabble' string is appended as a comment when the string method is called.

```
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```

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC8162,
RFC6698

=cut

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/SMIMEA.pm

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=head1 SYNOPSIS

```
use Net::DNS;
```

```
$rr = new Net::DNS::RR('name KEY flags protocol algorithm publickey');
```

=head1 DESCRIPTION

DNS KEY resource record

This is a clone of the DNSKEY record and inherits all properties of
the Net::DNS::RR::DNSKEY class.

Please see the L<Net::DNS::RR::DNSKEY> documentation for details.

=head1 METHODS

The available methods are those inherited from the base class augmented
by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data
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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, L<Net::DNS::RR::DNSKEY>, RFC3755, RFC2535

=cut

Found in path(s):

* /libnet-dns-perl-1.22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/KEY.pm

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=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR('name IN L32 preference locator32');
```

```
$rr = new Net::DNS::RR(
name    => 'example.com',
type    => 'L32',
preference => 10,
locator32 => '10.1.02.0'
);
```

=head1 DESCRIPTION

Class for DNS 32-bit Locator (L32) resource records.

The L32 resource record is used to hold 32-bit Locator values for ILNPv4-capable nodes.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 preference

```
$preference = $rr->preference;  
$rr->preference( $preference );
```

A 16 bit unsigned integer in network byte order that indicates the relative preference for this L32 record among other L32 records associated with this owner name. Lower values are preferred over higher values.

=head2 locator32

```
$locator32 = $rr->locator32;
```

The Locator32 field is an unsigned 32-bit integer in network byte order that has the same syntax and semantics as a 32-bit IPv4 routing prefix.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC6742

=cut

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* /libnet-dns-perl-1.22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/L32.pm

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=head1 NAME

check_soa - Check nameservers for a domain

=head1 SYNOPSIS

check_soa [-d] [-n] [-s] [-t] [-v] domain [nameserver]

=head1 DESCRIPTION

B<check_soa> builds a list of nameservers for the zone which contains the specified domain name.

The program queries each nameserver for the relevant SOA record and reports the zone serial number.

Error reports are generated for nameservers which reply with incorrect, non-authoritative or outdated information.

=over 8

=item I<domain>

Fully qualified domain name to be tested.

Domains within ip6.arpa or in-addr.arpa namespaces may be specified using the appropriate IP address or prefix notation.

=item I<nameserver>

Optional name or list of IP addresses of specific nameserver to be tested.

Addresses are used in the sequence they appear in the argument list.

=back

SOA query packets are sent to the nameservers as rapidly as the underlying hardware will allow.

The

program waits for a response only when it is needed for analysis.

Execution time is determined by the slowest nameserver.

This perldoc(1) documentation page is displayed if the I<domain> argument is omitted.

The program is based on the B<check_soa> idea described by Albitz and Liu.

=head1 OPTIONS

=over 8

=item B<-d>

Turn on resolver diagnostics.

=item B<-n>

Report negative cache TTL.

=item B<-s>

Request DNSSEC resource records.

=item B<-t>

Ignore UDP datagram truncation.

=item B<-v>

Verbose output including address records for each nameserver.

=back

=head1 EXAMPLES

=over 8

=item check_soa example.com

Query all nameservers for the specified domain.

=item check_soa 192.0.2.1

Query nameservers for the corresponding in-addr.arpa subdomain.

=item check_soa 2001:DB8::8:800:200C:417A

Query nameservers for the corresponding ip6.arpa subdomain.

=item check_soa 2001:DB8:0:CD30::/60

As above, for IPv6 address prefix of specified length.

=item check_soa 192.0.2.1 z.arin.net

Query
specific nameserver as above.

=back

=head1 BUGS

The program can become confused by zones which originate,
or appear to originate, from more than one primary server.

The timeout code uses the perl 4-argument select() function.
This is not guaranteed to work in non-Unix environments.

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=head1 SEE ALSO

Paul Albitz, Cricket Liu.
DNS and BIND, 5th Edition.
O'Reilly, 2006.

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Domain Names - Implementation and Specification,
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Larry Wall, Tom Christiansen, Jon Orwant.
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=cut

Found in
path(s):
* /libnet-dns-perl-1.22-orig.tar.gz/Net-DNS-1.22/contrib/check_soa
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=head1 NAME

Net::DNS::Resolver::Base - DNS resolver base class

=head1 SYNOPSIS

```
use base qw(Net::DNS::Resolver::Base);
```

=head1 DESCRIPTION

This class is the common base class for the different platform
sub-classes of L<Net::DNS::Resolver>.

No user serviceable parts inside, see L<Net::DNS::Resolver>
for all your resolving needs.

=head1 METHODS

=head2 new, domain, searchlist, nameserver, nameservers,

=head2 search, query, send, bgsend, bgbusy, bgread, axfr,

=head2 force_v4, force_v6, prefer_v4, prefer_v6,

=head2 dnssec, srcaddr, tsig, udppacketsize,

=head2 print, string, errorstring, replyfrom

See L<Net::DNS::Resolver>.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Resolver>

=cut

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Resolver/Base.pm

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=head1 SYNOPSIS

```
use Net::DNS::Resolver;
```

=head1 DESCRIPTION

This class implements the OS specific portions of C<Net::DNS::Resolver>.

No user serviceable parts inside, see L<Net::DNS::Resolver>
for all your resolving needs.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Resolver>

=cut

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Resolver/cygwin.pm

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Domain>, RFC1035, RFC2535, RFC3597, RFC4034

=cut

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/DomainName.pm

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=head1 SYNOPSIS

```
use Net::DNS;
```

```
=head1 DESCRIPTION
```

Class for DNS TSIG Key (TKEY) resource records.

```
=head1 METHODS
```

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

```
=head2 algorithm
```

```
$algorithm = $rr->algorithm;  
$rr->algorithm( $algorithm );
```

The algorithm name is in the form of a domain name with the same meaning as in [RFC 2845]. The algorithm determines how the secret keying material agreed to using the TKEY RR is actually used to derive the algorithm specific key.

```
=head2 inception
```

```
$inception = $rr->inception;  
$rr->inception( $inception );
```

Time expressed as the number of non-leap seconds modulo 2**32 since the beginning of January 1970 GMT.

```
=head2  
expiration
```

```
$expiration = $rr->expiration;  
$rr->expiration( $expiration );
```

Time expressed as the number of non-leap seconds modulo 2**32 since the beginning of January 1970 GMT.

```
=head2 mode
```

```
$mode = $rr->mode;  
$rr->mode( $mode );
```

The mode field specifies the general scheme for key agreement or the purpose of the TKEY DNS message, as defined in [RFC2930(2.5)].

=head2 error

```
$error = $rr->error;  
$rr->error( $error );
```

The error code field is an extended RCODE.

=head2 key

```
$key = $rr->key;  
$rr->key( $key );
```

Sequence of octets representing the key exchange data.
The meaning of this data depends on the mode.

=head2 other

```
$other = $rr->other;  
$rr->other( $other );
```

Content not defined in the [RFC2930] specification but may be used in future extensions.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC2930

=cut

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=head1 SYNOPSIS

```
use Net::DNS;

$rr = new Net::DNS::RR( 'name TXT txtdata ...' );
```

```
$rr = new Net::DNS::RR( name    => 'name',
                        type    => 'TXT',
                        txtdata => 'single text string'
                      );
```

```
$rr = new Net::DNS::RR( name    => 'name',
                        type    => 'TXT',
                        txtdata => [ 'multiple', 'strings', ... ]
                      );
```

```
use utf8;

$rr = new Net::DNS::RR( 'jp TXT ' );
```

=head1 DESCRIPTION

Class for DNS Text (TXT) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or

other unpredictable behaviour.

=head2 txtdata

```
$string = $rr->txtdata;
```

```
@list = $rr->txtdata;
```

```
$rr->txtdata( @list );
```

When invoked in scalar context, txtdata()

returns a concatenation

of the descriptive text elements each separated by a single space character.

In a list context, txtdata() returns a list of the text elements.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.3.14, RFC3629

=cut

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/TXT.pm

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

=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR("zone. ZONEMD 2018121500 1 0
FEBE3D4CE2EC2FFA4BA99D46CD69D6D29711E55217057BEE
7EB1A7B641A47BA7FED2DD5B97AE499FAFA4F22C6BD647DE");
```

=head1 DESCRIPTION

Class for DNS Zone Message Digest (ZONEMD) resource record.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 serial

```
$serial = $rr->serial;
$rr->serial( $serial );
```

Unsigned 32-bit integer zone serial number.

=head2 digtype

```
$digtype = $rr->digtype;
$rr->digtype( $digtype );
```

8-bit integer digest type field.

=head2 parameter

```
$parameter = $rr->parameter;
$rr->parameter( $parameter );
```

Digest algorithm parameter
field.

=head2 digest

```
$digest = $rr->digest;  
$rr->digest( $digest );
```

Hexadecimal representation of the digest over the zone content.

=head2 digestbin

```
$digestbin = $rr->digestbin;  
$rr->digestbin( $digestbin );
```

Binary representation of the digest over the zone content.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, draft-wessels-dns-zone-digest

=cut

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/ZONEMD.pm

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=head1 SYNOPSIS

```
use Net::DNS;
```

```
$rr = new Net::DNS::RR('name MINFO rmailbx emailbx');
```

=head1 DESCRIPTION

Class for DNS Mailbox Information (MINFO) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 rmailbx

```
$rmailbx = $rr->rmailbx;
```

```
$rr->rmailbx( $rmailbx );
```

A domain name which specifies a mailbox which is responsible for the mailing list or mailbox. If this domain name names the root, the owner of the MINFO RR is responsible for itself. Note that many existing mailing lists use a mailbox X-request to identify the maintainer of mailing list X, e.g., Msggroup-request for Msggroup. This field provides a more general mechanism.

=head2 emailbx

```
$emailbx = $rr->emailbx;
```

```
$rr->emailbx( $emailbx );
```


A domain name which specifies a mailbox which is to receive error messages related to the mailing list or mailbox specified by the owner of the MINFO RR (similar to the ERRORS-TO: field which has been proposed). If this domain name names the root, errors should be returned to the sender of the message.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.3.7

=cut

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* /libnet-dns-perl-1.22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/MINFO.pm

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=head1 SYNOPSIS

use Net::DNS::Resolver;

=head1 DESCRIPTION

This class implements the OS specific portions of C<Net::DNS::Resolver>.

No user serviceable parts inside, see L<Net::DNS::Resolver>
for all your resolving needs.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Resolver>

=cut

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Resolver/MSWin32.pm

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=head1 EXAMPLES

The first example below shows a complete program.

Subsequent examples show only the creation of the update packet.

Although the examples are presented using the string form of RRs, the corresponding (name => value) form may also be used.

=head2 Add a new host

```
#!/usr/bin/perl

use Net::DNS;

# Create the update packet.
my $update = new Net::DNS::Update('example.com');

# Prerequisite is that no address records exist for the name.
$update->push( pre => nxrrset('foo.example.com. A') );
$update->push( pre => nxrrset('foo.example.com. AAAA') );

# Add two address records for the name.
$update->push( update => rr_add('foo.example.com. 86400 A 192.0.2.1') );
$update->push( update => rr_add('foo.example.com. 86400 AAAA 2001:DB8::1') );

# Send the update to the zone's primary master.
my $resolver = new Net::DNS::Resolver;
$resolver->nameservers('primary-master.example.com');

my $reply = $resolver->send($update);

# Did it work?
if ($reply) {
    if ( $reply->header->rcode eq 'NOERROR' ) {
        print "Update succeeded\n";
    } else {
        print 'Update failed: ', $reply->header->rcode, "\n";
    }
} else {
    print 'Update failed: ', $resolver->errorstring, "\n";
}
```

=head2 Add an MX record for a name that already exists

```
my $update = new Net::DNS::Update('example.com');
$update->push( prereq => yxdomain('example.com') );
$update->push( update => rr_add('example.com MX 10 mailhost.example.com') );
```

=head2 Add a TXT record for a name that does not exist

```
my $update = new Net::DNS::Update('example.com');
$update->push( prereq => nxdomain('info.example.com') );
$update->push( update => rr_add('info.example.com TXT "yabba dabba doo") );
```

=head2 Delete all A records for a name

```
my $update = new Net::DNS::Update('example.com');
$update->push( prereq => yxrrset('foo.example.com A')
);
$update->push( update => rr_del('foo.example.com A') );
```

=head2 Delete all RRs for a name

```
my $update = new Net::DNS::Update('example.com');
$update->push( prereq => yxdomain('byebye.example.com') );
$update->push( update => rr_del('byebye.example.com') );
```

=head2 Perform a DNS update signed using a BIND private key file

```
my $update = new Net::DNS::Update('example.com');
$update->push( update => rr_add('foo.example.com AAAA 2001:DB8::1') );
$update->sign_tsig( "$dir/Khmac-sha512.example.com.+165+01018.private" );
my $reply = $resolver->send( $update );
$reply->verify( $update ) || die $reply->verifyerr;
```

=head2 Signing the DNS update using a BIND public key file

```
$update->sign_tsig( "$dir/Khmac-sha512.example.com.+165+01018.key" );
```

=head2 Signing the DNS update using a customised TSIG record

```
$update->sign_tsig( "$dir/Khmac-sha512.example.com.+165+01018.private",
fudge => 60
);
```

=head2 Another way to sign a DNS update

```
my $key_name
= 'tsig-key';
my $key = 'awwLOtRfpGE+rRKF2+DEiw==';

my $tsig = new Net::DNS::RR("$key_name TSIG $key");
$tsig->fudge(60);

my $update = new Net::DNS::Update('example.com');
$update->push( update => rr_add('foo.example.com AAAA 2001:DB8::1') );
```

```
$update->push( additional => $tsig );
```

```
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```

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```
=head1 SEE ALSO
```

L<perl>, L<Net::DNS>, L<Net::DNS::Packet>, L<Net::DNS::Header>,
L<Net::DNS::RR>, L<Net::DNS::Resolver>, RFC 2136, RFC 2845

```
=cut
```

Found in path(s):

* /libnet-dns-perl-1.22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Update.pm

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

```
=head1 SYNOPSIS
```

```
use Net::DNS;
```

```
$rr = new Net::DNS::RR('name NAPTR order preference flags service regexp replacement');
```

=head1 DESCRIPTION

DNS Naming Authority Pointer (NAPTR) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 order

```
$order = $rr->order;  
$rr->order( $order );
```

A 16-bit unsigned integer specifying the order in which the NAPTR records must be processed to ensure the correct ordering of rules. Low numbers are processed before high numbers.

=head2 preference

```
$preference = $rr->preference;  
$rr->preference( $preference );
```

A 16-bit unsigned integer that specifies the order in which NAPTR records with equal "order" values should be processed, low numbers being processed before high numbers.

=head2 flags

```
$flags = $rr->flags;  
$rr->flags( $flags );
```

A string containing flags to control aspects of the rewriting and interpretation of the fields in the record. Flags are single characters from the set [A-Z0-9].

=head2 service

```
$service = $rr->service;  
$rr->service( $service );
```

Specifies the service(s) available down this rewrite path. It may also specify the protocol used to communicate with the service.

=head2 regexp

```
$regexp = $rr->regexp;  
$rr->regexp;
```

A string containing a substitution expression that is applied to the original string held by the client in order to construct the next domain name to lookup.

=head2 replacement

```
$replacement = $rr->replacement;  
$rr->replacement( $replacement );
```

The next NAME to query for NAPTR, SRV, or address records depending on the value of the flags field.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC2915, RFC2168, RFC3403

=cut

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/NAPTR.pm

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=head1 SYNOPSIS

```
use Net::DNS;

$r = new Net::DNS::RR('name DS keytag algorithm digtype digest');
```

```
use Net::DNS::SEC;

$ds = create Net::DNS::RR::DS(
    $dnskeyrr,
    digtype => 'SHA256',
    ttl => 3600
);
```

=head1 DESCRIPTION

Class for DNS Delegation Signer (DS) resource record.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 keytag

```
$keytag = $r->keytag;
$r->keytag( $keytag );
```


The 16-bit numerical key tag of the key. (RFC2535 4.1.6)

=head2 algorithm

```
$algorithm = $rr->algorithm;  
$rr->algorithm( $algorithm );
```

Decimal representation of the 8-bit algorithm field.

algorithm() may also be invoked as a class method or simple function to perform mnemonic and numeric code translation.

=head2 digtype

```
$digtype = $rr->digtype;  
$rr->digtype( $digtype );
```

Decimal representation of the 8-bit digest type field.

digtype() may also be invoked as a class method or simple function to perform mnemonic and numeric code translation.

=head2 digest

```
$digest = $rr->digest;  
$rr->digest( $digest );
```

Hexadecimal representation of the digest over the label and key.

=head2 digestbin

```
$digestbin = $rr->digestbin;  
$rr->digestbin( $digestbin );
```

Binary representation of the digest over the label and key.

=head2 babble

```
print $rr->babble;
```

The babble() method returns the 'BubbleBabble' representation of the digest if the Digest::BubbleBabble package is available, otherwise an empty string is returned.

BubbleBabble represents a message digest as a string of plausible words, to make the digest easier to verify. The "words" are not

necessarily real words, but they look more like words than a string of hex characters.

The 'BubbleBabble' string is appended as a comment when the string method is called.

=head2 create

```
use Net::DNS::SEC;
```

```
$dsrr = create Net::DNS::RR::DS($keyrr, digtype => 'SHA-256' );  
$keyrr->print;  
$dsrr->print;
```

This constructor takes a key object as argument and will return the corresponding DS RR object.

The digest type defaults to SHA-1.

=head2 verify

```
$verify = $dsrr->verify($keyrr);
```

The boolean verify method will return true if the hash over the key RR provided as the argument conforms to the data in the DS itself i.e. the DS points to the DNSKEY from the argument.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC4034, RFC3658

L<Algorithm Numbers|<http://www.iana.org/assignments/dns-sec-alg-numbers>>,
L<Digest Types|<http://www.iana.org/assignments/ds-rr-types>>

=cut

Found in path(s):

* /libnet-dns-perl-1.22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/DS.pm

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=head1 SYNOPSIS

```
use Net::DNS;

$rr = new Net::DNS::RR('name RRSIG typecovered algorithm labels
orgttl sigexpiration siginception
keytag signame signature');
```

```
use Net::DNS::SEC;

$sigrr = create Net::DNS::RR::RRSIG( \@rrset, $keypath,
    sigex => 20191231010101
    signin => 20191201010101
    );
```

```
$sigrr->verify( \@rrset, $keyrr ) || die $sigrr->vrfyerrstr;
```

=head1 DESCRIPTION

Class for DNS digital signature (RRSIG) resource records.

In addition to the regular methods inherited from Net::DNS::RR the class contains a method to sign RRsets using private keys (create) and a method for verifying signatures over RRsets (verify).

The RRSIG RR is an implementation of RFC4034.
See L<Net::DNS::RR::SIG> for an implementation of SIG0 (RFC2931).

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 typecovered

```
$typecovered = $rr->typecovered;
```

The typecovered field identifies the type of the RRset that is covered by this RRSIG record.

=head2 algorithm

```
$algorithm = $rr->algorithm;
```

The algorithm number field identifies the cryptographic algorithm used to create the signature.

algorithm() may also be invoked as a class method or simple function to perform mnemonic and numeric code translation.

=head2 labels

```
$labels = $rr->labels;  
$rr->labels( $labels );
```

The labels field specifies the number of labels in the original RRSIG RR owner name.

=head2 orgttl

```
$orgttl = $rr->orgttl;  
$rr->orgttl( $orgttl );
```

The original TTL field specifies the TTL of the covered RRset as it appears in the authoritative zone.

=head2 sigexpiration and siginception times

```
=head2 sigex signin sigval
```

```
$expiration  
= $rr->sigexpiration;  
$expiration = $rr->sigexpiration( $value );
```

```
$inception = $rr->siginception;  
$inception = $rr->siginception( $value );
```

The signature expiration and inception fields specify a validity time interval for the signature.

The value may be specified by a string with format 'yyyymmddhhmmss' or a Perl time() value.

Return values are dual-valued, providing either a string value or numerical Perl time() value.

```
=head2 keytag
```

```
$keytag = $rr->keytag;  
$rr->keytag( $keytag );
```

The keytag field contains the key tag value of the DNSKEY RR that validates this signature.

```
=head2 signame
```

```
$signame = $rr->signame;  
$rr->signame( $signame );
```

The signer name field value identifies the owner name of the DNSKEY RR that a validator is supposed to use to validate this signature.

```
=head2 signature
```

```
=head2 sig
```

```
$sig = $rr->sig;  
$rr->sig( $sig );
```

The Signature field contains the cryptographic signature that covers the RRSIG RDATA (excluding the Signature field) and the RRset specified by the RRSIG owner name, RRSIG class, and RRSIG type covered fields.

=head2 sigbin

```
$sigbin = $rr->sigbin;  
$rr->sigbin( $sigbin );
```

Binary representation of the cryptographic signature.

=head2 create

Create a signature over a RR set.

```
use Net::DNS::SEC;  
  
$keypath = '/home/olaf/keys/Kbla.foo.+001+60114.private';  
  
$sigrr = create Net::DNS::RR::RRSIG( \@rrsetref, $keypath );  
  
$sigrr = create Net::DNS::RR::RRSIG( \@rrsetref, $keypath,  
    sigex => 20191231010101  
    signin => 20191201010101  
    );  
$sigrr->print;
```

Alternatively use Net::DNS::SEC::Private

```
$private = Net::DNS::SEC::Private->new($keypath);  
  
$sigrr= create Net::DNS::RR::RRSIG( \@rrsetref, $private );
```

create() is an alternative constructor for a RRSIG RR object.

This method returns an RRSIG with the signature over the subject rset (an array of RRs) made with the private key stored in the key file.

The first argument is a reference to an array that contains the RRset that needs to be signed.

The second argument is a string which specifies the path to a file containing the private key as generated by dnssec-keygen.

The optional remaining arguments consist of (name => value) pairs as follows:

```
sigex => 20191231010101, # signature expiration  
signin => 20191201010101, # signature inception
```

```
sigval => 30, # validity window (days)
ttl   => 3600 # TTL
```

The `signin` and `sigex` values may be specified as Perl time values or as a string with the format 'yyymmddhhmmss'. The default for `signin` is the time of signing.

The `sigval` argument specifies the signature validity window in days (`sigex = signin + sigval`).

By default the signature is valid for 30 days.

By default the TTL matches the RRset that is presented for signing.

```
=head2 verify
```

```
$verify = $sigrr->verify( $rrsetref, $keyrr );
$verify = $sigrr->verify( $rrsetref, [$keyrr, $keyrr2, $keyrr3] );
```

`$rrsetref` contains a reference to an array of RR objects and the `method` verifies the RRset against the signature contained in the `$sigrr` object itself using the public key in `$keyrr`.

The second argument can either be a `Net::DNS::RR::KEYRR` object or a reference to an array of such objects. Verification will return successful as soon as one of the keys in the array leads to positive validation.

Returns 0 on error and sets `$sig->vrfyerrstr`

```
=head2 vrfyerrstr
```

```
$verify = $sigrr->verify( $rrsetref, $keyrr );
print $sigrr->vrfyerrstr unless $verify;
```

```
$sigrr->verify( $rrsetref, $keyrr ) || die $sigrr->vrfyerrstr;
```

```
=head1 KEY GENERATION
```

Private key files and corresponding public DNSKEY records are most conveniently generated using `dnssec-keygen`, a program that comes with the ISC BIND distribution.

```
dnssec-keygen -a 10 -b 2048 -f ksk rsa.example.
dnssec-keygen -a 10 -b 1024 rsa.example.
```

```
dnssec-keygen -a 14 -f ksk ecdsa.example.
```

`dnssec-keygen -a 14 ecdsa.example.`

Do not change the name of the private key file.

The create

method uses the filename as generated by `dnssec-keygen` to determine the keyowner, algorithm, and the keyid (keytag).

=head1 REMARKS

The code is not optimised for speed.

It is probably not suitable to be used for signing large zones.

If this code is still around in 2100 (not a leap year) you will need to check for proper handling of times after 28th February.

=head1 ACKNOWLEDGMENTS

Although their original code may have disappeared following redesign of Net::DNS, Net::DNS::SEC and the OpenSSL API, the following individual contributors deserve to be recognised for their significant influence on the development of the RRSIG package.

Andy Vaskys (Network Associates Laboratories) supplied code for RSA.

T.J. Mather provided support for the DSA algorithm.

Dick Franks added support for elliptic curve and Edwards curve algorithms.

Mike McCauley created the `Crypt::OpenSSL::ECDSA` perl extension module specifically for this development.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, L<Net::DNS::SEC>,
RFC4034, RFC6840, RFC3755,
L<Net::DNS::SEC::DSA>,
L<Net::DNS::SEC::ECDSA>,
L<Net::DNS::SEC::EdDSA>,
L<Net::DNS::SEC::RSA>

L<Algorithm Numbers|<http://www.iana.org/assignments/dns-sec-alg-numbers>>

L<BIND 9 Administrator Reference Manual|<http://www.bind9.net/manuals>>

=cut

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/RRSIG.pm

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=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name MX preference exchange');
```

=head1 DESCRIPTION

DNS Mail Exchanger (MX) resource record

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 preference

```
$preference = $rr->preference;  
$rr->preference( $preference );
```

A 16 bit integer which specifies the preference given to this RR among others at the same owner. Lower values are preferred.

=head2 exchange

```
$exchange = $rr->exchange;  
$rr->exchange( $exchange );
```

A domain name which specifies a host willing to act as a mail exchange for the owner name.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.3.9

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#####

=head1 BUGS

Coding strategy is intended to avoid creating unnecessary argument lists and stack frames. This improves efficiency at the expense of code readability.

Platform specific character coding features are conditionally compiled into the code.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::LibIDN2>, RFC1034, RFC1035, RFC5891, Unicode TR#16

=cut

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* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Domain.pm

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=head1 SYNOPSIS

```
use Net::DNS;
```

```
$rr = new Net::DNS::RR( 'name NSEC nxdname typelist' );
```

=head1 DESCRIPTION

Class for DNSSEC NSEC resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 nxdname

```
$nxdname = $rr->nxdname;
```

```
$rr->nxdname( $nxdname );
```

The Next Domain field contains the next owner name (in the canonical ordering of the zone) that has authoritative data

or contains a delegation point NS RRset.

=head2 typelist

```
@typelist = $rr->typelist;  
$typelist = $rr->typelist;
```

typelist() identifies the RRset types that exist at the NSEC RR owner name. When called in scalar context, the list is interpolated into a string.

=head2 typemap

```
$exists = $rr->typemap($rrtype);
```

typemap() returns a Boolean true value if the specified RRtype occurs in the type bitmap of the NSEC record.

=head2 match

```
$matched = $rr->match( 'example.foo' );
```

match() returns a Boolean true value if the canonical form of the name argument matches the canonical owner name of the NSEC RR.

=head2 covers

```
$covered = $rr->covers( 'example.foo' );
```

covers() returns a Boolean true value if the canonical form of the name, or one of its ancestors, falls between the owner name and the nxtdname field of the NSEC record.

=head2 encloser, nextcloser, wildcard

```
$encloser = $rr->encloser( 'example.foo' );  
print "encloser: $encloser\n" if $encloser;
```

encloser() returns the name of a provable encloser of the query name argument obtained from the NSEC RR.

nextcloser() returns the next closer name, which is one label longer than the closest encloser.

This is only valid after encloser() has returned a valid domain name.

wildcard() returns the unexpanded wildcard name from which the next closer name was possibly synthesised.

This is only valid after encloser() has returned a valid domain name.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC4034, RFC3755

=cut

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=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name AFSDB subtype hostname');
```

=head1 DESCRIPTION

Class for DNS AFS Data Base (AFSDB) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 subtype

```
$subtype = $rr->subtype;  
$rr->subtype( $subtype );
```

A 16 bit integer which indicates the service offered by the listed host.

=head2 hostname

```
$hostname = $rr->hostname;  
$rr->hostname( $hostname );
```

The hostname field is a domain name of a host that has a server for the cell named by the owner name of the RR.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1183, RFC5864

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=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR('name IN EUI48 address');
```

```
$rr = new Net::DNS::RR(
name => 'example.com',
type => 'EUI48',
address => '00-00-5e-00-53-2a'
);
```

=head1 DESCRIPTION

DNS resource records for 48-bit Extended Unique Identifier (EUI48).

The EUI48 resource record is used to represent IEEE Extended Unique Identifiers used in various layer-2 networks, ethernet for example.

EUI48 addresses SHOULD NOT be published in the public DNS.
RFC7043 describes potentially severe privacy implications resulting

from indiscriminate publication of link-layer addresses in the DNS.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2

address

The address field is a 6-octet layer-2 address in network byte order.

The presentation format is hexadecimal separated by "-".

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC7043

=cut

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=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name CNAME cname');
```

```
$rr = new Net::DNS::RR(  
name => 'alias.example.com',  
type => 'CNAME',  
cname => 'example.com',  
);
```

=head1 DESCRIPTION

Class for DNS Canonical Name (CNAME) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 cname

```
$cname = $rr->cname;  
$rr->cname( $cname );
```

A domain name which specifies the canonical or primary name for the owner. The owner name is an alias.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>,
RFC1035 Section 3.3.1

=cut

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* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/CNAME.pm

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=head1 ACKNOWLEDGEMENT

This package is an improved and compatible reimplementaion of the Net::DNS::Resolver::Recurse.pm created by Rob Brown in 2002, whose contribution is gratefully acknowledged.

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=head1 SEE ALSO

L<Net::DNS::Resolver>

=cut

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* /libnet-dns-perl-1.22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Resolver/Recurse.pm

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=head1 SYNOPSIS

```
use Net::DNS;
$rr = new Net::DNS::RR('name KX preference exchange');
```

=head1 DESCRIPTION

DNS Key Exchange Delegation (KX) record

=head1 METHODS

The available methods are those inherited from the base class augmented

by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 preference

```
$preference = $rr->preference;  
$rr->preference( $preference );
```

A 16 bit integer which specifies the preference given to this RR among others at the same owner. Lower values are preferred.

=head2 exchange

```
$exchange = $rr->exchange;  
$rr->exchange( $exchange );
```

A domain name which specifies a host willing to act as a key exchange for the owner name.

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=head1

SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC2230

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* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/KX.pm

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=head1 SYNOPSIS

```
use Net::DNS;
```

```
$rr = new Net::DNS::RR('name NSEC3PARAM algorithm flags iterations salt');
```

=head1 DESCRIPTION

Class for DNSSEC NSEC3PARAM resource records.

The NSEC3PARAM RR contains the NSEC3 parameters (hash algorithm, flags, iterations and salt) needed to calculate hashed ownernames.

The presence of an NSEC3PARAM RR at a zone apex indicates that the specified parameters may be used by authoritative servers to choose an appropriate set of NSEC3 records for negative responses.

The NSEC3PARAM RR is not used by validators or resolvers.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 algorithm

```
$algorithm = $rr->algorithm;
```

```
$rr->algorithm( $algorithm );
```

The Hash Algorithm field is represented as an unsigned decimal integer. The value has a maximum of 255.

```
=head2 flags
```

```
$flags = $rr->flags;  
$rr->flags( $flags );
```

The Flags field is represented as an unsigned decimal integer. The value has a maximum of 255.

```
=head2 iterations
```

```
$iterations = $rr->iterations;  
$rr->iterations( $iterations );
```

The Iterations field is represented as an unsigned decimal integer. The value is between 0 and 65535, inclusive.

```
=head2 salt
```

```
$salt = $rr->salt;  
$rr->salt( $salt );
```

The Salt field is represented as a contiguous sequence of hexadecimal digits. A "-" (unquoted) is used in string format to indicate that the salt field is absent.

```
=head2 saltbin
```

```
$saltbin = $rr->saltbin;  
$rr->saltbin( $saltbin );
```

The Salt field as a sequence of octets.

```
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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>,
RFC5155

=cut

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* /libnet-dns-perl-1.22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/NSEC3PARAM.pm

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=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name DNSKEY flags protocol algorithm publickey');
```

=head1 DESCRIPTION

Class for DNSSEC Key (DNSKEY) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 flags

```
$flags = $rr->flags;  
$rr->flags( $flags );
```

Unsigned 16-bit number representing Boolean flags.

=over 4

=item zone

```
$rr->zone(1);
```

```
if ( $rr->zone ) {  
    ...  
}
```

Boolean Zone flag.

=back

=over 4

=item revoke

```
$rr->revoke(1);
```

```
if ( $rr->revoke ) {  
    ...  
}
```

Boolean Revoke flag.

=back

=over 4

=item sep

```
$rr->sep(1);
```

```
if ( $rr->sep ) {  
    ...  
}
```

Boolean Secure Entry Point flag.

=back

=head2 protocol

```
$protocol = $rr->protocol;  
$rr->protocol( $protocol );
```

The 8-bit protocol number. This field **MUST** have value 3.

=head2 algorithm

```
$algorithm = $rr->algorithm;  
$rr->algorithm( $algorithm );
```

The 8-bit algorithm number describes the public key algorithm.

algorithm() may also be invoked as a class method or simple function to perform mnemonic and numeric code translation.

=head2 publickey

=head2 key

```
$key = $rr->key;  
$rr->key( $key );
```

Base64 representation of the public key material.

=head2 keybin

```
$keybin = $rr->keybin;  
$rr->keybin( $keybin );
```

Opaque octet string representing the public key material.

=head2 privatekeyname

```
$privatekeyname = $rr->privatekeyname;
```

Returns the name of the privatekey as it would be generated by the BIND dnssec-keygen program. The format of that name being:

K<fqdn>+<algorithm>+<keyid>.private

=head2 signame

Returns the canonical signer name of the privatekey.

=head2 keylength

Returns the length (in bits) of
the modulus calculated from the key text.

=head2 keytag

```
print "keytag = ", $rr->keytag, "\n";
```

Returns the 16-bit numerical key tag of the key. (RFC2535 4.1.6)

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC4034, RFC3755

L<Algorithm Numbers|<http://www.iana.org/assignments/dns-sec-alg-numbers>>

=cut

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=head1 SYNOPSIS

```
use Net::DNS;
```

```
$rr = new Net::DNS::RR('name IN CERT certtype keytag algorithm cert');
```

=head1 DESCRIPTION

Class for DNS Certificate (CERT) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 certtype

```
$certtype = $rr->certtype;
```

Returns the certtype code for the certificate (in numeric form).

=head2 keytag

```
$keytag = $rr->keytag;  
$rr->keytag( $keytag );
```

Returns the key tag for the public key in the certificate

=head2 algorithm

```
$algorithm = $rr->algorithm;
```

Returns the algorithm used by the certificate (in numeric form).

=head2 certificate

=head2 certbin

```
$certbin = $rr->certbin;
```

```
$rr->certbin( $certbin );
```

Binary representation of the certificate.

```
=head2 cert
```

```
$cert = $rr->cert;  
$rr->cert( $cert );
```

Base64 representation of the certificate.

```
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```

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```
=head1 SEE ALSO
```

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC4398

```
=cut
```

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/CERT.pm

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

=head1 NAME

Net::DNS::Parameters - DNS parameter assignments

=head1 SYNOPSIS

```
use Net::DNS::Parameters;
```

=head1 DESCRIPTION

Net::DNS::Parameters is a Perl package representing the DNS parameter allocation (key,value) tables as recorded in the definitive registry maintained and published by IANA.

=head1 FUNCTIONS

=head2 classbyname, typebyname, opcodebyname, rcodebyname, ednsotionbyname, dsoptionbyname

Access functions which return the numerical code corresponding to the given mnemonic.

=head2 classbyval, typebyval, opcodebyval, rcodebyval, ednsotionbyval, dsoptionbyval

Access functions which return the canonical mnemonic corresponding to the given numerical code.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>,
L<IANA Registry|<http://www.iana.org/assignments/dns-parameters>>

=cut

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Parameters.pm

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=head1 SYNOPSIS

```
use Net::DNS::Resolver;
```

=head1 DESCRIPTION

This class implements the OS specific portions of C<Net::DNS::Resolver>.

No user serviceable parts inside, see L<Net::DNS::Resolver>
for all your resolving needs.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::Resolver>

=cut

Found in path(s):

* /libnet-dns-perl-1.22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Resolver/os2.pm

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=head1 SYNOPSIS

```
use Net::DNS;

$rr = new Net::DNS::RR('client.example.com. DHCID ( AAAB
xLmlskllE0MVjd57zHcWmEH3pCQ6VytckD//7es/deY=');

$rr = new Net::DNS::RR(
    name      => 'client.example.com',
    type      => 'DHCID',
    digest     => 'ObfuscatedIdentityData',
    digesttype => 1,
    identierty => 2,
);
```

=head1 DESCRIPTION

DNS RR for Encoding DHCP Information (DHCID)

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 identiertype

```
$identiertype = $rr->identiertype;  
$rr->identiertype( $identiertype );
```

The 16-bit identifier type describes the form of host identifier used to construct the DHCP identity information.

=head2
digesttype

```
$digesttype = $rr->digesttype;  
$rr->digesttype( $digesttype );
```

The 8-bit digest type number describes the message-digest algorithm used to obfuscate the DHCP identity information.

=head2 digest

```
$digest = $rr->digest;  
$rr->digest( $digest );
```

Binary representation of the digest of DHCP identity information.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC4701

=cut

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::DomainName>, RFC1035, RFC5322 (RFC822)

=cut

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Mailbox.pm

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=head1 SYNOPSIS

```
use Net::DNS;
```

```
$rr = new Net::DNS::RR('name HINFO cpu os');
```

=head1 DESCRIPTION

Class for DNS Hardware Information (HINFO) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 cpu

```
$cpu = $rr->cpu;
```

```
$rr->cpu( $cpu );
```

Returns the CPU type for this RR.

=head2 os

```
$os = $rr->os;
```

```
$rr->os( $os );
```

Returns the operating system type for this RR.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC1035 Section 3.3.2

=cut

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=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name OPENPGPKEY key');
```

=head1 DESCRIPTION

Class for OpenPGP Key (OPENPGPKEY) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 key

```
$key = $rr->key;  
$rr->key( $key );
```

Base64 encoded representation of the OpenPGP public key material.

=head2 keybin

```
$keybin = $rr->keybin;  
$rr->keybin( $keybin );
```

OpenPGP public key material consisting of
a single OpenPGP transferable public key in RFC4880 format.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC7929

=cut

Found in path(s):

*

/libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/OPENPGPKEY.pm

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::DomainName>, L<Net::DNS::Packet>,
RFC 1035 Section 4.1.2

=cut

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/Question.pm

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=head1 SYNOPSIS

```
use Net::DNS;
```

```
$rr = new Net::DNS::RR('name NSEC3 algorithm flags iterations salt hnxname');
```

=head1 DESCRIPTION

Class for DNSSEC NSEC3 resource records.

The NSEC3 Resource Record (RR) provides authenticated denial of existence for DNS Resource Record Sets.

The NSEC3 RR lists RR types present at the original owner name of the NSEC3 RR. It includes the next hashed owner name in the hash order of the zone. The complete set of NSEC3 RRs in a zone indicates which RRsets exist for the original owner name of the RR and form a chain of hashed owner names in the zone.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 algorithm

```
$algorithm = $rr->algorithm;
```

```
$rr->algorithm( $algorithm );
```

The Hash Algorithm field is represented as an unsigned decimal integer. The value has a maximum of 255.

algorithm() may also be invoked as a class method or simple function to perform mnemonic and numeric code translation.

=head2 flags

```
$flags = $rr->flags;  
$rr->flags( $flags );
```

The Flags field is an unsigned decimal integer interpreted as eight concatenated Boolean values.

=over 4

=item optout

```
$rr->optout(1);
```

```
if ( $rr->optout ) {  
    ...  
}
```

Boolean Opt Out flag.

=back

=head2 iterations

```
$iterations = $rr->iterations;  
$rr->iterations( $iterations );
```

The Iterations field is represented as an unsigned decimal integer. The value is between 0 and 65535, inclusive.

=head2 salt

```
$salt = $rr->salt;  
$rr->salt( $salt );
```

The Salt field is represented as a contiguous sequence of hexadecimal digits. A "-" (unquoted) is used in string format to indicate that the salt field is absent.

=head2

saltbin

```
$saltbin = $rr->saltbin;  
$rr->saltbin( $saltbin );
```


The Salt field as a sequence of octets.

=head2 hnextname

```
$hnextname = $rr->hnextname;  
$rr->hnextname( $hnextname );
```

The Next Hashed Owner Name field points to the next node that has authoritative data or contains a delegation point NS RRset.

=head2 typelist

```
@typelist = $rr->typelist;  
$typelist = $rr->typelist;  
$rr->typelist( @typelist );
```

typelist() identifies the RRset types that exist at the domain name matched by the NSEC3 RR. When called in scalar context, the list is interpolated into a string.

=head2 typemap

```
$exists = $rr->typemap($rrtype);
```

typemap() returns a Boolean true value if the specified RRtype occurs in the type bitmap of the NSEC3 record.

=head2 match

```
$matched = $rr->match( 'example.foo' );
```

match() returns a Boolean true value if the hash of the domain name argument matches the hashed owner name of the NSEC3 RR.

=head2 covers

```
$covered = $rr->covers( 'example.foo'  
);
```

covers() returns a Boolean true value if the hash of the domain name argument, or ancestor of that name, falls between the owner name and the next hashed owner name of the NSEC3 RR.

=head2 encloser, nextcloser, wildcard

```
$encloser = $rr->encloser( 'example.foo' );  
print "encloser: $encloser\n" if $encloser;
```

encloser() returns the name of a provable encloser of the query name argument obtained from the NSEC3 RR.

nextcloser() returns the next closer name, which is one label longer than the closest encloser.

This is only valid after encloser() has returned a valid domain name.

wildcard() returns the unexpanded wildcard name from which the next closer name was possibly synthesised.

This is only valid after encloser() has returned a valid domain name.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC5155, RFC4648

L<Hash

Algorithms|<http://www.iana.org/assignments/dnssec-nsec3-parameters>>

=cut

Found in path(s):

* /libnet-dns-perl-1-22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/NSEC3.pm

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=head1 SYNOPSIS

```
use Net::DNS;
```

```
$rr = new Net::DNS::RR('name IN HIP algorithm hit key servers');
```

=head1 DESCRIPTION

Class for DNS Host Identity Protocol (HIP) resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 algorithm

```
$algorithm = $rr->algorithm;
```

```
$rr->algorithm( $algorithm );
```

The PK algorithm field indicates the public key cryptographic algorithm and the implied public key field format.

The values are those defined for the IPSECKEY algorithm type [RFC4025].

=head2 hit

```
$hit = $rr->hit;
```

```
$rr->hit( $hit );
```

The hexadecimal representation of the host identity tag.

=head2 hitbin

```
$hitbin = $rr->hitbin;
```

```
$rr->hitbin( $hitbin );
```

The binary representation of the host identity tag.

```
=head2 key
```

```
$key = $rr->key;
```

```
$rr->key( $key );
```

The hexadecimal representation of the public key.

```
=head2 keybin
```

```
$keybin = $rr->keybin;
```

```
$rr->keybin( $keybin );
```

The binary representation of the public key.

```
=head2 servers
```

```
@servers = $rr->servers;
```

Optional list of domain names of rendezvous servers.

```
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```

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC8005

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=head1 SYNOPSIS

```
use Net::DNS;  
$rr = new Net::DNS::RR('name CSYNC SOAserial flags typelist');
```

=head1 DESCRIPTION

Class for DNSSEC CSYNC resource records.

=head1 METHODS

The available methods are those inherited from the base class augmented by the type-specific methods defined in this package.

Use of undocumented package features or direct access to internal data structures is discouraged and could result in program termination or other unpredictable behaviour.

=head2 SOAserial

=head2 soaserial

```
$soaserial = $rr->soaserial;  
$rr->soaserial( $soaserial );
```

The SOA Serial field contains a copy of the 32-bit SOA serial number from the child zone.

=head2 flags

```
$flags = $rr->flags;
```

```
$rr->flags( $flags );
```

The flags field contains 16 bits of boolean flags that define operations which affect the processing of the CSYNC record.

```
=over 4
```

```
=item immediate
```

```
$rr->immediate(1);
```

```
if ( $rr->immediate  
  ) {  
  ...  
}
```

If not set, a parental agent must not process the CSYNC record until the zone administrator approves the operation through an out-of-band mechanism.

```
=back
```

```
=over 4
```

```
=item soaminimum
```

```
$rr->soaminimum(1);
```

```
if ( $rr->soaminimum ) {  
  ...  
}
```

If set, a parental agent querying child authoritative servers must not act on data from zones advertising an SOA serial number less than the SOAserial value.

```
=back
```

```
=head2 typelist
```

```
@typelist = $rr->typelist;  
$typelist = $rr->typelist;
```

The type list indicates the record types to be processed by the parental agent. When called in scalar context, the list is interpolated into a string.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::RR>, RFC7477

=cut

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* /libnet-dns-perl-1.22-orig-tar-gz/Net-DNS-1.22/lib/Net/DNS/RR/CSYNC.pm

1.213 libmath-random-isaac-xs-perl 1.004-2build5

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1.215 libcapture-tiny-perl 0.48-1

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1.216 libnet-ssleay-perl 1.88-2ubuntu1

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1.217 babeltrace 1.5.8-1build1

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1.218 libnet-dns-sec-perl 1.15-1

1.218.1 Available under license :

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```
#####
```

```
=head1 METHODS
```

```
=head2 new
```

```
require Net::DNS::SEC::Digest;  
$object = new Net::DNS::SEC::Digest::SHA( $algorithm );
```

Creates and initialises a new digest object instance for the specified
algorithm.

```
=head2 add
```

```
$object->add($text);  
$object->add($more);
```

Append specified text to digest stream.

=head2 digest

\$digest = \$object->digest;

Returns the digest encoded as a binary string.

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=head1 SEE ALSO

L<Net::DNS>, L<Net::DNS::SEC>,
L<OpenSSL|<http://www.openssl.org/docs>>

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package Net::DNS::SEC::libcrypto;

#

\$Id: libcrypto.pod 1616 2018-01-22 08:54:52Z willem \$

#

=head1 NAME

Net::DNS::SEC::libcrypto - Perl interface to OpenSSL libcrypto

=head1 DESCRIPTION

Perl XS extension providing access to the OpenSSL libcrypto library upon which the Net::DNS::SEC cryptographic components are built.

=cut

1;

__END__

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=head1 SEE ALSO

L<Net::DNS>, L<Net::DNS::SEC>,
L<OpenSSL|<http://www.openssl.org/docs>>

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=head1 NAME

key2ds - Utility to create DS records from DNSKEY RRs read from stdin.

=head1 SYNOPSIS

key2ds <keys.txt >ds.txt

=head1 DESCRIPTION

C<key2ds> reads the key data from STDIN and prints the corresponding DS record on STDOUT.

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=cut

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=head1 METHODS

=head2 new (from private keyfile)

```
$keypath = '/home/foo/Kexample.com.+013+26512.private';  
$private = new Net::DNS::SEC::Private( $keypath );
```

The argument is the full path to a private key file generated by the BIND dnssec-keygen tool. Note that the filename contains information about the algorithm and keytag.

=head2 new (from private key parameters)

```
$private = new Net::DNS::SEC::Private(  
'algorithm' => '13',  
'keytag'    => '26512',  
'privatekey' => 'h/mc+iq9VDUbNAjQgi8S8JzlEX29IALchwJmNM3QYKk=',  
'signame'   => 'example.com.'  
);
```

The arguments define the private key parameters as (name,value) pairs. The name and data representation are identical to that used in a BIND private keyfile.

=head2 private_key_format

```
$format = $private->private_key_format;
```

Returns a string which identifies the format of the private key file.

=head2 algorithm, keytag, signame

```
$algorithm  
= $private->algorithm;  
$keytag   = $private->keytag;  
$signame  = $private->signame;
```

Returns the corresponding attribute determined from the filename.

=head2 Private key attributes

```
$attribute = $private->attribute;
```

Returns the value as it appears in the private key file.

The attribute names correspond to the tag in the key file, modified to form an acceptable Perl subroutine name.

=head2 created, publish, activate

```
$created = $private->created;  
$publish = $private->publish;  
$activate = $private->activate;
```

Returns a string which represents a date in the form 20141212123456.

Returns undefined value for key formats older than v1.3.

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, L<Net::DNS::SEC>,
L<Net::DNS::RR::DNSKEY>, L<Net::DNS::RR::RRSIG>

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abstract: 'DNSSEC extensions to Net::DNS'

author:

- 'Dick Franks'

- 'Olaf Kolkman'

build_requires:

ExtUtils::MakeMaker: '0'

configure_requires:

ExtUtils::MakeMaker: '0'

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150010'

license: mit

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: '1.4'

name: Net-DNS-SEC

no_index:

directory:

- t

- inc

recommends: {}

requires:

DynaLoader: '1.04'

File::Find: '1.05'

File::Spec: '0.86'

IO::File: '1.08'

MIME::Base64: '2.13'

Net::DNS: '1.08'

Test::More: '0.47'

perl: '5.006'

version: '1.15'

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

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* /libnet-dns-sec-perl-1-15-orig-tar-gz/Net-DNS-SEC-1.15/META.yml

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Net::DNS::SEC - DNSSEC extensions to Net::DNS

=====

1. DESCRIPTION

This module is designed as an extension the Net::DNS package
(<https://metacpan.org/release/Net-DNS>).

The module implements the cryptographic signature generation and
verification functions that are relevant for DNSSEC operations.

```
**
** *****
** ** WARNING **
** *****
** THE USE AND/OR HANDLING OF STRONG ENCRYPTION TECHNOLOGIES IS
** PROHIBITED OR SEVERELY RESTRICTED IN MANY TERRITORIES.
** PLEASE BE SURE THAT YOU FULLY UNDERSTAND THE LEGAL POSITION
** IN YOUR COUNTRY BEFORE ATTEMPTING TO INSTALL THIS MODULE OR
** ANY OF THE PREREQUISITE CRYPTOGRAPHY PACKAGES.
**
```

Net::DNS::SEC also provides a class for handling keysets.
Keysets are administrative files used by the BIND tools for key
maintenance tasks. Net::DNS::SEC::Keyset provides an abstract
interface for doing fun
things with them.

See also the 'pod' documentation in:

Net::DNS::RR::DNSKEY

Net::DNS::RR::DS

Net::DNS::RR::NSEC

Net::DNS::RR::NSEC3

Net::DNS::RR::RRSIG

Net::DNS::SEC::Private

and for the use of SIG0 see:

Net::DNS::Packet (sign_sig0)

Net::DNS::RR::SIG

2. AVAILABILITY

You can get the latest version of Net::DNS::SEC from the
Comprehensive Perl Archive Network (CPAN):

<https://metacpan.org/release/Net-DNS-SEC>

or through

<http://www.net-dns.org/>

Additionally a subversion repository is made available through

<http://www.net-dns.org/svn/net-dns-sec/>

The version on the "trunk" (<http://www.net-dns.org/svn/net-dns-sec/trunk>) is the version that is targeted for next release.

Please note that the SVN version at any given moment may be broken.

3. PREREQUISITES

This package relies on Net-DNS version 1.01 or later which has features specifically designed to support Net::DNS::SEC.

The availability of prerequisites for Net::DNS::SEC is tested at installation time. These are the packages that need to be available:

File::Find
File::Spec
MIME::Base64
Test::More

The cryptographic heavy lifting is performed using the OpenSSL libcrypto library distributed under separate license.

You will also require a C compiler.

4. INSTALLATION

Please install any modules mentioned in the PREREQUISITES section above. When you run "perl Makefile.PL", Perl should complain if any of the required modules is missing.

To build this module, run the following commands:

```
tar xvzf Net-DNS-SEC-1.??tar.gz
cd Net-DNS-SEC-1.??
perl Makefile.PL
make
make test
make install
```

'make test' will do some tests that should all succeed once all dependencies are satisfied. Please report any failure during the test phase.

Alternatively, install the package using CPAN:

```
perl -MCPAN -e shell;  
cpan> install Net::DNS::SEC
```

To build the libcrypto.so library, run the following:

```
tar xvzf openssl-1.1.*.tar.gz  
cd openssl-1.1.*  
./config  
shared  
make # require only libcrypto.so.1.1 and include/openssl/*.h
```

5. MAINTENANCE

Please use the CPAN request tracker to report bugs in the extensions. The request tracker is available through:

<https://rt.cpan.org/NoAuth/ReportBug.html?Queue=Net-DNS-SEC>

6. STAYING UP TO DATE

Announcements about Net::DNS::SEC will be published on <http://www.net-dns.org/blog/>. An RSS feed is available.

7. DEMOS

demo/getkeyset.pl A small demonstration program that will fetch the keyset for a specified domain, store the keys and print DS RRs to STDOUT.

demo/key2ds Reads the key data from STDIN and prints the corresponding DS record on STDOUT.
Contributed by Miek Gieben

demo/make-signed-keyset Creates a self-signed keyset from a BIND public key specified on the command line.

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\$Id: README 1677 2018-05-22 11:59:10Z willem \$

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=head1 SEE ALSO

L<Net::DNS>, L<Net::DNS::SEC>,
RFC2536,

L<OpenSSL|<http://www.openssl.org/docs>>

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=head1 SEE ALSO

L<perl>, L<Net::DNS>, RFC4033, RFC4034, RFC4035,

L<OpenSSL|<http://www.openssl.org/docs>>

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L<Net::DNS>, L<Net::DNS::SEC>,
RFC8032, RFC8080,
L<OpenSSL|<http://www.openssl.org/docs>>

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L<OpenSSL|<http://www.openssl.org/docs>>

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L<Net::DNS>, L<Net::DNS::SEC>,
RFC8017, RFC3110,
L<OpenSSL|<http://www.openssl.org/docs>>

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=head1 SEE ALSO

L<Net::DNS>, L<Net::DNS::SEC>, L<Digest::GOST>,
RFC4357, RFC4490, RFC5832, RFC5933, RFC7091

=cut

Found in path(s):

* /libnet-dns-sec-perl-1-15-orig-tar-gz/Net-DNS-SEC-1.15/lib/Net/DNS/SEC/ECCGOST.pm

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

=head1 NAME

getkeyset.pl - DS extraction demo

=head1 SYNOPSIS

getkeyset.pl <domain> [auth_nameserver]

=head1 DESCRIPTION

The program queries for the key-set of 'domain'. Spits out the DS records and writes the keyset to the current directory.

If the second argument is specified the query is performed to that nameserver.

=head1 TODO

This is only a demonstration program to show how the interface can be used.

=head1 COPYRIGHT

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<net-dns-sec@ripe.net>

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=cut

Found in path(s):

* /libnet-dns-sec-perl-1-15-orig-tar-gz/Net-DNS-SEC-1.15/demo/getkeyset

1.219 daemon-tools 0.76-7

1.219.1 Available under license :

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/* Public domain. */

/* sysdep: -shortsetgroups */

Found in path(s):

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasshsgr.h1

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

/* Public domain. */

#ifndef UINT64_H

#define UINT64_H

/* sysdep: -ulong64 */

typedef unsigned long long uint64;

#endif

Found in path(s):

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/uint64.h1

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

/* Public domain. */

Found in path(s):

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/taia_less.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/sig_pause.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/ndelay.h

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/x86cpuid.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/trypoll.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/str_start.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/ndelay_on.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/stralloc_eady.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/stralloc.h

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/byte_copy.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/trycpp.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/strerr_sys.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fd_copy.c

*

/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/byte_rchr.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/strerr.h

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer_get.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/stralloc_pend.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/wait_pid.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/stralloc_cats.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/pathexec_env.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/tryulong64.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer.h

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/taia.h

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/open_write.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/openreadclose.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/trymkffo.c

*

/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/wait.h

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/pathexec_run.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/tai_unpack.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/chkshsgr.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer_write.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/tai_now.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fmt_uint0.c

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/open.h

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/pathexec.h

```

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fd_move.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer_1.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer_read.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/env.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/tai.h
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/str_len.c
*
/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/stralloc_opyb.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/str_diff.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/taia_add.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fifo.h
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fmt_ulong.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/env.h
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fifo.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/lock.h
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/stralloc_catb.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/taia_uint.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/open_append.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/stralloc_opys.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/alloc.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/trysgprm.c
*
/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/sig_block.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/alloc.h
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/sig.h
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/taia_approx.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/sig.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/trysysel.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/taia_now.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/str_chr.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/taia_pack.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer_2.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/subgetopt.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fmt.h
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/taia_sub.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/iopause.h2
*
/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fmt_uint.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/subgetopt.h
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/byte_chr.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer_0.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/trydrent.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/tai_pack.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/byte_diff.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/iopause.h1
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/open_trunc.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/str.h
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/ndelay_off.c

```

```

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/openreadclose.h
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/scan.h
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/sgetopt.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/dirent.h2
*
/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/gen_alloc.h
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/scan_ulong.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/sgetopt.h
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/lock_exnb.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/taia_frac.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/tryshsgr.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/select.h2
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/select.h1
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/trywaitp.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/lock_ex.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/strerr_die.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/byte_cr.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/error.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/gen_allocdefs.h
*
/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/error.h
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/open_read.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/error_str.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/seek.h
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/readclose.h
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/readclose.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/sig_catch.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer_put.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/trysgact.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/tryflock.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/dirent.h1
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/iopause.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/prot.h
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/coe.h
*
/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/wait_nohang.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/byte.h
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fd.h
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/coe.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/tai_sub.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/prot.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/alloc_re.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/stralloc_cat.c
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/seek_set.c
No license file was found, but licenses were detected in source scan.

/* Public domain. */

```

```
/* sysdep: -waitpid */
```

Found in path(s):

```
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/haswaitp.h1
```

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

```
/* Public domain. */
```

```
/* sysdep: -sigprocmask */
```

Found in path(s):

```
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hassgprm.h1
```

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

```
/* Public domain. */
```

```
#ifndef UINT64_H
```

```
#define UINT64_H
```

```
/* sysdep: +ulong64 */
```

```
typedef unsigned long uint64;
```

```
#endif
```

Found in path(s):

```
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/uint64.h2
```

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

```
/* Public domain. */
```

```
/* sysdep: +sigprocmask */
```

```
#define HASSIGPROCMASK 1
```

Found in path(s):

```
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hassgprm.h2
```

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

```
/* Public domain. */
```

```
/* sysdep: +sigaction */
```

```
#define HASSIGACTION 1
```

Found in path(s):

```
* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hassgact.h2
```

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

```
/* Public domain. */
```

/* sysdep: -mkfifo */

Found in path(s):

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasmkfho.h1

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

/* Public domain. */

/* sysdep: +flock */

#define HASFLOCK 1

Found in path(s):

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasflock.h2

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

/* Public domain. */

/* sysdep: +mkfifo */

#define HASMKFIFO 1

Found in path(s):

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasmkfho.h2

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

/* Public domain. */

/* sysdep: +shortsetgroups */

#define HASSHORTSETGROUPS 1

Found in path(s):

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasshsgr.h2

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

/* Public domain. */

/* sysdep: -sigaction */

Found in path(s):

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hassgact.h1

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

/* Public domain. */

/* sysdep: -flock */

Found in path(s):

* /daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasflock.h1

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

```
/* Public domain. */
```

```
/* sysdep: +waitpid */
```

```
#define HASWAITPID 1
```

Found in path(s):

```
* /daemontools-0.76-orig-tar-gz/admin/daemontools-0.76/src/haswaitp.h2
```

1.220 ifupdown 0.8.35ubuntu1

1.220.1 Available under license :

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Source: <https://anonscm.debian.org/cgit/collab-maint/ifupdown.git>

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1.222 libjson-xs-perl 4.020-1build1

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CFLAGS = -g -Wall

RANLIB = ranlib

OS != uname -s

sources = lrmi.c lrmi.h

objects = lrmi.o

pic_objects = lrmi.lo

all = liblrmi.a liblrmi.so vbetest

.if \${OS}=="NetBSD" || \${OS}=="OpenBSD"

libs= -li386

.endif

all: \$(all)

.c.o:

\$(CC) -c \$(CPPFLAGS) \$(CFLAGS) -o \${.TARGET} \${.IMPSRC}

.SUFFIXES: .lo

.c.lo:

\$(CC) -c \$(CPPFLAGS) \$(CFLAGS) -fPIC -o \${.TARGET} \${.IMPSRC}

liblrmi.a: \$(objects)

```
$(AR) -r ${.TARGET} ${.ALLSRC}
$(RANLIB) ${.TARGET}

liblrmi.so: $(pic_objects)
$(CC) $(CPPFLAGS) $(CFLAGS) -fPIC -shared -o ${.TARGET} ${.ALLSRC} ${libs}

vbetest: vbetest.o liblrmi.a
$(CC) $(CPPFLAGS) $(CFLAGS) -o ${.TARGET} ${.ALLSRC} ${libs}

.PHONY: clean
clean:
rm -f $(objects) $(pic_objects) vbetest.o $(all) *.core
```

1.224 readline 5.2+dfsg-3build3

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```
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```

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

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

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1.225 pynacl 1.3.0

1.225.1 Available under license :

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1.226 jemalloc 5.2.1-1ubuntu1

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1.227 jsonpatch 1.22

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1.228 pyyaml 5.3.1-1ubuntu0.1

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1.229 lz4 1.9.2-2ubuntu0.20.04.1

1.229.1 Available under license :

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Upstream-Name: lz4

Source: <https://github.com/Cyan4973/lz4>

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1.230 python-stdlib-extensions 3.8.10-0ubuntu1~20.04

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Found in path(s):

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/grammar.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/pgen.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/literals.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/pgen.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/grammar.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/grammar.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/pgen.py
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```

('binary-only', None,
"cannot supply both '--source-only' and '--binary-only'")

```
'License: ' + self.distribution.get_license(),
```

Found in path(s):

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist_rpm.py
```

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist_rpm.py
```

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/command/bdist_rpm.py
```

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executable.

Found in path(s):

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/spawn.py
```

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/spawn.py
```

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/spawn.py
```

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```
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```

```
# Licensed to PSF under a Contributor Agreement.
```

```
# A grammar to describe tree matching patterns.
```

```
# Not shown here:
```

```
# - 'TOKEN' stands for any token (leaf node)
```

```
# - 'any' stands for any node (leaf or interior)
```

```
# With 'any' we can still specify the sub-structure.
```

```
# The start symbol is 'Matcher'.
```

```
Matcher: Alternatives ENDMARKER
```

```
Alternatives: Alternative (' Alternative)*
```

```
Alternative: (Unit | NegatedUnit)+
```

```
Unit: [NAME '=' ( STRING [Repeater]
      | NAME [Details] [Repeater]
      | '(' Alternatives ')' [Repeater]
      | '[' Alternatives ']'
      )
      )
```

```
NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')
```

```
Repeater: '*' | '+' | '{' NUMBER [, NUMBER '}'
```

```
Details: '<' Alternatives '>'
```

Found in path(s):

- * /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/PatternGrammar.txt
- * /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/PatternGrammar.txt
- *

/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/PatternGrammar.txt

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*****/

Found in path(s):

- * /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Modules/_tkinter.c
- * /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Modules/_tkinter.c
- * /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Modules/_tkinter.c

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Found in path(s):

- * /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/driver.py
- * /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/driver.py
- * /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/driver.py

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Found in path(s):

- * /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pygram.py
- * /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_print.py
- * /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_apply.py
- * /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/refactor.py
- * /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/patcomp.py
- * /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixer_base.py
- * /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/patcomp.py
- * /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_long.py
- *

/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/patcomp.py

- * /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/tests/test_pytree.py

- * /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-

3.8.2/3.6/Lib/lib2to3/tests/pytree_idempotency.py

- * /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_execfile.py

- * /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_long.py

- * /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pytree.py

```

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_exec.py
*
/ python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixer_base.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixer_base.py
*
/ python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_long.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_exec.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pytree.py
*
/ python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_has_key.py
*
/ python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_exec.py
No license file was found, but licenses were detected in source scan.

```

```

file.write('License: %s\n' % self.get_license())

```

Found in path(s):

```

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/dist.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/dist.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/dist.py
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```

```

# version.

```

Found in path(s):

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/cygwinccompiler.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/cygwinccompiler.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/cygwinccompiler.py
No license file was found, but licenses were detected in source scan.
```

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Found in path(s):

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_map.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_dict.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_map.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_filter.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_filter.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_filter.py
```

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_map.py

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Found in path(s):

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/tokenize.py

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/tokenize.py

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/tokenize.py

1.231 python-attrs 19.3.0-2

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1.232 pastebinit 1.5.1-1

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CAMELLIA

The C implementation is by Nippon Telegraph and Telephone Corporation (NTT), heavily modified by Niels Mller. Assembler for x86 and x86_64 by Niels Mller. Released under the LGPL.

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CAST128

The implementation of the CAST128 cipher is written by Steve Reid.
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DES

The implementation of the DES cipher is written by Dana L. How, and
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MD2

The implementation of MD2 is written by Andrew Kuchling,
and hacked
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MD4

This is almost the same code as for MD5 below, with modifications
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MD5

The implementation of the MD5 message digest is written by Colin
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SHA1

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SHA224, SHA256, SHA384, and SHA512

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

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

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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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a)

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will
operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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

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

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

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the 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
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<one line to give the library's name and a brief idea of what it does.>
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That's all there is to it!

1.238 libhttp-date-perl 6.05-1

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Appendix: How to Apply These Terms to Your New Programs

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

To do so, attach the following notices to the program.

It is safest to

attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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

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

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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
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1.239 liblwp-mediatypes-perl 6.04-1

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<one line to give the program's name and a brief idea of what it does.>
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1.240 libhtml-tagset-perl 3.20-4

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README for HTML::Tagset

HTML::Tagset

This module contains data tables useful in dealing with HTML.

It provides no functions or methods.

PREREQUISITES

This suite requires Perl 5.

HTML::Tagset doesn't use any nonstandard modules.

INSTALLATION

You install HTML::Tagset, as you would install any perl module library, by running these commands:

```
perl Makefile.PL
make
make test
make install
```

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

```
perl Makefile.PL LIB=~/.perl
```

DOCUMENTATION

POD-format documentation is included in Tagset.pm. POD is readable with the 'perldoc' utility. See ChangeLog for recent changes.

MACPERL INSTALLATION NOTES

Don't bother with the makefiles. Just make a HTML directory in your MacPerl site_lib or lib directory, and move Tagset.pm into there.

SUPPORT

Questions, bug reports, and suggestions for HTML::Tagset should just be sent to me at sburke@cpan.org

AVAILABILITY

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

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Found in path(s):

* /libhtml-tagset-perl-3-20-orig-1-tar-gz/HTML-Tagset-3.20/README

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=head1 CAVEATS

You may find it useful to alter the behavior of modules (like C<HTML::Element> or C<HTML::TreeBuilder>) that use C<HTML::Tagset>'s data tables by altering the data tables themselves. You are welcome to try, but be careful; and be aware that different modules may or may react differently to the data tables being changed.

Note that it may be inappropriate to use these tables for I<producing> HTML -- for example, C<%isHeadOrBodyElement> lists the tagnames for all elements that can appear either in the head or in the body, such as "script". That doesn't mean that I am saying your code that produces HTML should feel free to put script elements in either place! If you are producing programs that spit out HTML, you should be I<intimately> familiar with the DTDs for HTML or XHTML (available at C<<http://www.w3.org/>>), and you should slavishly obey them, not the data tables in this document.

=head1 SEE ALSO

L<HTML::Element>,
L<HTML::TreeBuilder>, L<HTML::LinkExor>

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Most of the code/data in this module was adapted from code written by Gisle Aas for C<HTML::Element>, C<HTML::TreeBuilder>, and C<HTML::LinkExor>. Then it was maintained by Sean M. Burke.

=head1 AUTHOR

Current maintainer: Andy Lester, C<< <andy at petdance.com> >>

=head1 BUGS

Please report any bugs or feature requests to
C<bug-html-tagset at rt.cpan.org>, or through the web interface at
L<<http://rt.cpan.org/NoAuth/ReportBug.html?Queue=HTML-Tagset>>. I will
be notified, and then you'll automatically be notified of progress on
your bug as I make changes.

=cut

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1.241 libhtml-form-perl 6.07-1

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1.242 tdb 1.45.5

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1.244 libhttp-message-perl 6.22-1

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1.245 libtimedate-perl 2.3200-1

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abstract: unknown

author:

- 'Graham Barr <gbarr@pobox.com>'

build_requires:

ExtUtils::MakeMaker: '0'

configure_requires:

ExtUtils::MakeMaker: '0'

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 7.44, CPAN::Meta::Converter version 2.150010'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: '1.4'

name: TimeDate

no_index:

directory:

- t

- inc

resources:

bugtracker: <https://github.com/atoomic/perl-TimeDate/issues>

repository: <https://github.com/atoomic/perl-TimeDate>

version: '2.32'

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

Found in path(s):

* /libtimedate-perl-2-3200-orig-1-tar-gz/TimeDate-2.32/META.yml

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=encoding utf8

=head1 NAME

Date::Language::Bulgarian - localization for Date::Format

=head1 DESCRIPTION

This is Bulgarian localization for Date::Format.

It is important to note that this module source code is in utf8.

All strings which it outputs are in utf8, so it is safe to use it

currently only with English. You are left alone to try and convert

the output when using different Date::Language::* in the same application.
This should be addressed in the future.

=head1 SYNOPSIS

```
use strict;
use warnings;
use Date::Language;
local $\=$/;
my $template='%a %b %e %T %Y (%Y-%m-%d %H:%M:%S)';
my $time=1290883821; #or just use time();
my @lt = localtime($time);
my %languages = qw(English GMT German EEST Bulgarian EET);
binmode(select,'utf8');

foreach my $l(keys %languages){
    my $lang = Date::Language->new($l);
    my $zone = $languages{$l};
    print $/. "$l
$zone";
    print $lang->time2str($template, $time);
    print $lang->time2str($template, $time, $zone);

    print $lang->strftime($template, \@lt);
}
```

=head1 AUTHOR

Krasimir Berov (berov@cpan.org)

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=head1 NAME

Date::Language::Hungarian - Magyar format for Date::Format

=head1 SYNOPSIS

```
my $lang = Date::Language->new('Hungarian');
print $lang->time2str("%a %b %e %T %Y", time);
```

```
@lt = localtime(time);
print $lang->time2str($template, time);
print $lang->strftime($template, @lt);
```

```
print $lang->time2str($template, time, $zone);
print $lang->strftime($template, @lt, $zone);
```

```
print $lang->ctime(time);
print $lang->asctime(@lt);
```

```
print $lang->ctime(time, $zone);
print $lang->asctime(@lt, $zone);
```

See L<Date::Format>.

=head1 AUTHOR

Paula Goddard (paula -at- paulacska -dot- com)

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* /libtimedate-perl-2-3200-orig-1-tar-gz/TimeDate-2.32/lib/Date/Parse.pm

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This is the perl5 TimeDate distribution. It requires perl version 5.003 or later

This distribution replaces my earlier GetDate distribution, which was only a date parser. The date parser contained in this distribution is far superior to the yacc based parser, and a *lot* faster.

The parser contained here will only parse absolute dates, if you want a date parser that can parse relative dates then take a look at the Time

modules by David Muir on CPAN.

You install the library by running these commands:

```
perl Makefile.PL
make
make test
make install
```

Please report any bugs/suggestions to <gbarr@pobox.com>

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Graham <gbarr@pobox.com>

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1.246 linux-base 4.5ubuntu3.7

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1.247 libhttp-cookies-perl 6.08-1

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1.248 libnet-http-perl 6.19-1

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Any

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

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1.250 icu 66.1-2ubuntu2.1

1.250.1 Available under license :

```
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## License & terms of use: http://www.unicode.org/copyright.html  
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)  
## Copyright (c) 1999-2013, 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) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

```


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

BIR_DEPS=

Remove shared library 's'

STATIC_PREFIX_WHEN_USED =

STATIC_PREFIX =

End BSD-specific setup

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2. Chinese/Japanese Word Break Dictionary Data (cjdict.txt)

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#
#
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# frequency is generated with an iterative training against Google web
# corpora.
#
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```
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1.251 python 3.8.2-0ubuntu2

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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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A. HISTORY OF THE SOFTWARE

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

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

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

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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
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2.6.1	2.6	2008	PSF	yes
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2.6.4	2.6.3	2009		
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3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
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1.252 libio-socket-ssl-perl 2.067-1

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abstract: 'Nearly transparent SSL encapsulation for IO::Socket::INET.'

author:

- 'Steffen Ullrich <sullr@cpan.org>, Peter Behroozi, Marko Asplund'

build_requires:
 ExtUtils::MakeMaker: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
 Net::SSLeay: '1.46'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
 url: <http://module-build.sourceforge.net/META-spec-v1.4.html>
 version: '1.4'
name: IO-Socket-SSL
no_index:
 directory:
 - t
 - inc
requires:
 Mozilla::CA: '0'
 Net::SSLeay: '1.46'
 Scalar::Util: '0'
resources:
 bugtracker: <https://rt.cpan.org/Dist/Display.html?Queue=IO-Socket-SSL>
 homepage: <https://github.com/noxxi/p5-io-socket-ssl>
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 version: '2.067'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

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*

/libio-socket-ssl-perl-2-067-orig-tar-gz/IO-Socket-SSL-2.067/META.yml

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=head1 NAME

IO::Socket::SSL - SSL sockets with IO::Socket interface

=head1 SYNOPSIS

```
use strict;  
use IO::Socket::SSL;
```

```
# simple client
my $cl = IO::Socket::SSL->new('www.google.com:443');
print $cl "GET / HTTP/1.0\r\n\r\n";
print <$cl>;
```

```
# simple server
my $srv = IO::Socket::SSL->new(
LocalAddr => '0.0.0.0:1234',
Listen => 10,
SSL_cert_file => 'server-cert.pem',
SSL_key_file => 'server-key.pem',
);
$srv->accept;
```

=head1 DESCRIPTION

IO::Socket::SSL makes using SSL/TLS much easier by wrapping the necessary functionality into the familiar L<IO::Socket> interface and providing secure defaults whenever possible.

This way, existing applications can be made SSL-aware without much effort, at least if you do blocking I/O and don't use select or poll.

But, under the hood, SSL is a complex beast.

So there are lots of methods to make it do what you need if the default behavior is not adequate.

Because it is easy to inadvertently introduce critical security bugs or just hard to debug problems, I would recommend studying the following documentation carefully.

The documentation consists of the following parts:

=over 4

=item * L<"/Essential Information About SSL/TLS">

=item * L<"/Basic SSL Client">

=item * L<"/Basic SSL Server">

=item * L<"/Common Usage Errors">

=item * L<"/Common Problems with SSL">

=item * L<"/Using Non-Blocking Sockets">

=item * L<"/Advanced Usage">

=item * L</"Integration Into Own Modules">

=item * L</"Description Of Methods">

=back

Additional documentation can be found in

=over 4

=item * L<IO::Socket::SSL::Intercept> - Doing Man-In-The-Middle with SSL

=item * L<IO::Socket::SSL::Utils> - Useful functions for certificates etc

=back

=head1 Essential Information About SSL/TLS

SSL (Secure Socket Layer) or its successor TLS (Transport Layer Security) are protocols to facilitate end-to-end security. These protocols are used when accessing

web sites (https), delivering or retrieving email, and in lots of other use cases.

In the following documentation we will refer to both SSL and TLS as simply 'SSL'.

SSL enables end-to-end security by providing two essential functions:

=over 4

=item Encryption

This part encrypts the data for transit between the communicating parties, so that nobody in between can read them. It also provides tamper resistance so that nobody in between can manipulate the data.

=item Identification

This part makes sure that you talk to the right peer.

If the identification is done incorrectly it is easy to mount man-in-the-middle attacks, e.g. if Alice wants to talk to Bob it would be possible for Mallory to put itself in the middle, so that Alice talks to Mallory and Mallory to Bob.

All the data would still be encrypted, but not end-to-end between Alice and Bob, but only between Alice and Mallory and then between Mallory and Bob.

Thus Mallory would be able to read and modify all traffic between Alice and Bob.

=back

Identification is the part which is the hardest to understand and the easiest to get wrong.

With SSL, the Identification is usually done with B<certificates> inside a B<PKI> (Public Key Infrastructure).

These Certificates are comparable to an identity card, which contains information about the owner of the card. The card then is somehow B<signed> by the B<issuer> of the card, the B<CA> (Certificate Agency).

To verify the identity of the peer the following must be done inside SSL:

=over 4

=item *

Get the certificate from the peer.

If the peer does not present a certificate we cannot verify it.

=item *

Check if we trust the certificate, e.g. make sure it's not a forgery.

We believe that a certificate is not a fake if we either know the certificate already or if we B<trust> the issuer (the CA) and can verify the issuers signature on the certificate.

In reality there is often a hierarchy of certificate agencies and we only directly trust the root of this hierarchy.

In this case the peer not only sends his own certificate, but also all B<intermediate certificates>.

Verification will be done by building a B<trust path> from the trusted root up to the peers certificate and checking in each step if the we can verify the issuer's signature.

This step often causes problems because the client does not know the necessary trusted root certificates. These are usually stored in a system dependent CA store, but often the browsers have their own CA store.

=item *

Check if the certificate is still valid.

Each certificate has a lifetime and should not be used after that time because it might be compromised or the underlying cryptography got broken in the mean time.

=item *

Check if the subject of the certificate matches the peer.

This is like comparing the picture on the identity card against the person representing the identity card.

When connecting to a server this is usually done by comparing the hostname used for connecting against the names

represented in the certificate.

A certificate might contain multiple names or wildcards, so that it can be used for multiple hosts (e.g. *.example.com and *.example.org).

Although nobody sane would accept an identity card where the picture does not match the person we see, it is a common implementation error with SSL to omit this check or get it wrong.

=item *

Check if the certificate was revoked by the issuer.

This might be the case if the certificate was compromised somehow and now somebody else might use it to claim the wrong identity.

Such revocations happened a lot after the heartbleed attack.

For SSL there are two ways to verify a revocation, CRL and OCSP.

With CRLs (Certificate Revocation List) the CA provides a list of serial numbers for revoked certificates. The client somehow has to download the list (which can be huge) and keep it up to date.

With OCSP (Online Certificate Status Protocol) the client can check a single certificate directly by asking the issuer.

Revocation

is the hardest part of the verification and none of today's browsers get it fully correct. But, they are still better than most other implementations which don't implement revocation checks or leave the hard parts to the developer.

=back

When accessing a web site with SSL or delivering mail in a secure way the identity is usually only checked one way, e.g. the client wants to make sure it talks to the right server, but the server usually does not care which client it talks to.

But, sometimes the server wants to identify the client too and will request a certificate from the client which the server must verify in a similar way.

=head1 Basic SSL Client

A basic SSL client is simple:

```
my $client = IO::Socket::SSL->new('www.example.com:443')
or die "error=$!, ssl_error=$SSL_ERROR";
```

This will take the OpenSSL default CA store as the store for the trusted CA. This usually works on UNIX systems.

If there are no certificates in the store it will try use L<Mozilla::CA> which provides the default CAs of Firefox.

In the default settings, L<IO::Socket::SSL> will use a safer cipher set and SSL version, do a proper hostname check against the certificate, and use SNI (server name indication) to send the hostname inside the SSL handshake. This is necessary to work with servers which have different certificates behind the same IP address.

It will also check the revocation of the certificate with OCSP, but currently only if the server provides OCSP stapling (for deeper checks see C<ocsp_resolver> method).

Lots of options can be used to change ciphers, SSL version, location of CA and much more. See documentation of methods for details.

With protocols like SMTP it is necessary to upgrade an existing socket to SSL. This can be done like this:

```
my $client = IO::Socket::INET->new('mx.example.com:25') or die $!;
# .. read greeting from server
# .. send EHLO and read response
# .. send STARTTLS command and read response
# .. if response was successful we
can upgrade the socket to SSL now:
IO::Socket::SSL->start_SSL($client,
# explicitly set hostname we should use for SNI
SSL_hostname => 'mx.example.com'
) or die $SSL_ERROR;
```

A more complete example for a simple HTTP client:

```
my $client = IO::Socket::SSL->new(
# where to connect
PeerHost => "www.example.com",
PeerPort => "https",

# certificate verification - VERIFY_PEER is default
SSL_verify_mode => SSL_VERIFY_PEER,

# location of CA store
# need only be given if default store should not be used
SSL_ca_path => '/etc/ssl/certs', # typical CA path on Linux
```

```
SSL_ca_file => '/etc/ssl/cert.pem', # typical CA file on BSD
```

```
# or just use default path on system:
```

```
IO::Socket::SSL::default_ca(), # either explicitly
```

```
# or implicitly by not giving SSL_ca_*
```

```
# easy hostname verification
```

```
# It will use PeerHost as default name a verification
```

```
# scheme as default, which is safe enough for most purposes.
```

```
SSL_verifycn_name => 'foo.bar',
```

```
SSL_verifycn_scheme => 'http',
```

```
# SNI
```

```
support - defaults to PeerHost
```

```
SSL_hostname => 'foo.bar',
```

```
) or die "failed connect or ssl handshake: $!, $SSL_ERROR";
```

```
# send and receive over SSL connection
```

```
print $client "GET / HTTP/1.0\r\n\r\n";
```

```
print <$client>;
```

And to do revocation checks with OCSP (only available with OpenSSL 1.0.0 or higher and L<Net::SSLeay> 1.59 or higher):

```
# default will try OCSP stapling and check only leaf certificate
```

```
my $client = IO::Socket::SSL->new($dst);
```

```
# better yet: require checking of full chain
```

```
my $client = IO::Socket::SSL->new(
```

```
PeerAddr => $dst,
```

```
SSL_ocsp_mode => SSL_OCSP_FULL_CHAIN,
```

```
);
```

```
# even better: make OCSP errors fatal
```

```
# (this will probably fail with lots of sites because of bad OCSP setups)
```

```
# also use common OCSP response cache
```

```
my $ocsp_cache = IO::Socket::SSL::OCSP_Cache->new;
```

```
my $client = IO::Socket::SSL->new(
```

```
PeerAddr => $dst,
```

```
SSL_ocsp_mode => SSL_OCSP_FULL_CHAIN|SSL_OCSP_FAIL_HARD,
```

```
SSL_ocsp_cache => $ocsp_cache,
```

```
);
```

```
#
```

```
disable OCSP stapling in case server has problems with it
```

```
my $client = IO::Socket::SSL->new(
```

```
PeerAddr => $dst,
```



```

SSL_ocsp_mode => SSL_OCSP_NO_STAPLE,
);

# check any certificates which are not yet checked by OCSP stapling or
# where we have already cached results. For your own resolving combine
# $ocsp->requests with $ocsp->add_response(uri,response).
my $ocsp = $client->ocsp_resolver();
my $errors = $ocsp->resolve_blocking();
if ($errors) {
warn "OCSP verification failed: $errors";
close($client);
}

```

=head1 Basic SSL Server

A basic SSL server looks similar to other L<IO::Socket> servers, only that it also contains settings for certificate and key:

```

# simple server
my $server = IO::Socket::SSL->new(
# where to listen
LocalAddr => '127.0.0.1',
LocalPort => 8080,
Listen => 10,

# which certificate to offer
# with SNI support there can be different certificates per hostname
SSL_cert_file => 'cert.pem',
SSL_key_file => 'key.pem',

) or die "failed to listen: $!";

# accept client
my $client = $server->accept or die
"failed to accept or ssl handshake: $!,$SSL_ERROR";

```

This will automatically use a secure set of ciphers and SSL version and also supports Forward Secrecy with (Elliptic-Curve) Diffie-Hellmann Key Exchange.

If you are doing a forking or threading server, we recommend that you do the SSL handshake inside the new process/thread so that the master is free for new connections.

We recommend this because a client with improper or slow SSL handshake could make the server block in the handshake which would be bad to do on the listening socket:

```

# inet server
my $server = IO::Socket::INET->new(

```

```
# where to listen
LocalAddr => '127.0.0.1',
LocalPort => 8080,
Listen => 10,
);

# accept client
my $client = $server->accept or die;

# SSL upgrade client (in new process/thread)
IO::Socket::SSL->start_SSL($client,
SSL_server => 1,
SSL_cert_file => 'cert.pem',
SSL_key_file =>
'key.pem',
) or die "failed to ssl handshake: $SSL_ERROR";
```

Like with normal sockets, neither forking nor threading servers scale well. It is recommended to use non-blocking sockets instead, see L<"/Using Non-Blocking Sockets">

=head1 Common Usage Errors

This is a list of typical errors seen with the use of L<IO::Socket::SSL>:

=over 4

=item *

Disabling verification with C<SSL_verify_mode>.

As described in L<"/Essential Information About SSL/TLS">, a proper identification of the peer is essential and failing to verify makes Man-In-The-Middle attacks possible.

Nevertheless, lots of scripts and even public modules or applications disable verification, because it is probably the easiest way to make the thing work and usually nobody notices any security problems anyway.

If the verification does not succeed with the default settings, one can do the following:

=over 8

=item *

Make sure the needed CAs are in the store, maybe use C<SSL_ca_file> or C<SSL_ca_path> to specify a different

CA store.

=item *

If the validation fails because the certificate is self-signed and that's what you expect, you can use the C<SSL_fingerprint> option to accept specific leaf certificates by their certificate or pubkey fingerprint.

=item *

If the validation failed because the hostname does not match and you cannot access the host with the name given in the certificate, you can use C<SSL_verifycn_name> to specify the hostname you expect in the certificate.

=back

A common error pattern is also to disable verification if they found no CA store (different modules look at different "default" places).

Because L<IO::Socket::SSL> is now able to provide a usable CA store on most platforms (UNIX, Mac OSX and Windows) it is better to use the defaults provided by L<IO::Socket::SSL>.

If necessary these can be checked with the C<default_ca> method.

=item *

Polling of SSL sockets (e.g. select, poll and other event loops).

If you sysread one byte on a normal socket it will result in a syscall to read

one byte. Thus, if more than one byte is available on the socket it will be kept in the network stack of your OS and the next select or poll call will return the socket as readable.

But, with SSL you don't deliver single bytes. Multiple data bytes are packaged and encrypted together in an SSL frame. Decryption can only be done on the whole frame, so a sysread for one byte actually reads the complete SSL frame from the socket, decrypts it and returns the first decrypted byte. Further sysreads will return more bytes from the same frame until all bytes are returned and the next SSL frame will be read from the socket.

Thus, in order to decide if you can read more data (e.g. if sysread will block) you must check if there are still data in the current SSL frame by calling C<pending> and if there are no data pending you might check the underlying socket with select or poll.

Another way might be if you try to sysread at least 16kByte all the time. 16kByte is the maximum size

of an SSL frame and because sysread returns data from only a single SSL frame you can guarantee that there are no pending data.

Additionally, contrary to plain sockets the data delivered on the socket are not necessarily application payload.

It might be a TLS handshake, it might just be the beginning of a TLS record or it might be TLS session tickets which are sent after the TLS handshake in TLS 1.3.

In such situations select will return that data are available for read since it only looks at the plain socket.

A sysread on the IO::Socket::SSL socket will not return any data though since it is an abstraction which only returns application data.

This causes the sysread to hang in case the socket was blocking or to return an error with EAGAIN on non-blocking sockets.

Applications using select or similar should therefore set the socket to non-blocking and also expect that the sysread might temporarily fail with EAGAIN.

See also [L<"/Using Non-Blocking Sockets">](#).

=item *

Expecting exactly
the same behavior as plain sockets.

IO::Socket::SSL tries to emulate the usual socket behavior as good as possible, but full emulation can not be done. Specifically a read on the SSL socket might also result in a write on the TCP socket or a write on the SSL socket might result in a read on the TCP socket. Also C<accept> and B<close> on the SSL socket will result in writing and reading data to the TCP socket too.

Especially the hidden writes might result in a connection reset if the underlying TCP socket is already closed by the peer. Unless signal PIPE is explicitly handled by the application this will usually result in the application crashing. It is thus recommended to explicitly IGNORE signal PIPE so that the errors get propagated as EPIPE instead of causing a crash of the application.

=item *

Set 'SSL_version' or 'SSL_cipher_list' to a "better" value.

L<IO::Socket::SSL> tries to set these values to reasonable, secure values which are compatible with the rest of the world.

But,

there are some scripts or modules out there which tried to be smart and get more secure or compatible settings.

Unfortunately, they did this years ago and never updated these values, so they are still forced to do only 'TLSv1' (instead of also using TLSv12 or TLSv11).

Or they set 'HIGH' as the cipher list and thought they were secure, but did not

notice that 'HIGH' includes anonymous ciphers, e.g. without identification of the peer.

So it is recommended to leave the settings at the secure defaults which L<IO::Socket::SSL> sets and which get updated from time to time to better fit the real world.

=item *

Make SSL settings inaccessible by the user, together with bad builtin settings.

Some modules use L<IO::Socket::SSL>, but don't make the SSL settings available to the user. This is often combined with bad builtin settings or defaults (like switching verification off).

Thus the user needs to hack around these restrictions by using C<set_args_filter_hack> or similar.

=item *

Use
of constants as strings.

Constants like C<SSL_VERIFY_PEER> or C<SSL_WANT_READ> should be used as constants and not be put inside quotes, because they represent numerical values.

=item *

Forking and handling the socket in parent and child.

A B<fork> of the process will duplicate the internal user space SSL state of the socket. If both master and child interact with the socket by using their own SSL state strange error messages will happen. Such interaction includes explicit or implicit B<close> of the SSL socket. To avoid this the socket should be explicitly closed with B<SSL_no_shutdown>.

=item *

Forking and executing a new process.

Since the SSL state is stored in user space it will be duplicated by a B<fork> but it will be lost when doing B<exec>. This means it is not possible to simply redirect stdin and stdout for the new process to the SSL socket by duplicating the relevant file handles. Instead explicitly exchanging plain data between child-process and SSL socket are needed.

=back

=head1

Common Problems with SSL

SSL is a complex protocol with multiple implementations and each of these has their own quirks. While most of these implementations work together, it often gets problematic with older versions, minimal versions in load balancers, or plain wrong setups.

Unfortunately these problems are hard to debug.

Helpful for debugging are a knowledge of SSL internals, Wireshark and the use of the debug settings of `L<IO::Socket::SSL>` and `L<Net::SSLay>`, which can both be set with `C<$IO::Socket::SSL::DEBUG>`.

The following debug levels are defined, but used not in any consistent way:

=over 4

=item *

0 - No debugging (default).

=item *

1 - Print out errors from `L<IO::Socket::SSL>` and ciphers from `L<Net::SSLay>`.

=item *

2 - Print also information about call flow from `L<IO::Socket::SSL>` and progress information from `L<Net::SSLay>`.

=item *

3 - Print also some data dumps from `L<IO::Socket::SSL>` and from `L<Net::SSLay>`.

=back

Also, `C<analyze-ssl.pl>`

from the `ssl-tools` repository at

`L<https://github.com/noxxi/p5-ssl-tools>` might be a helpful tool when debugging SSL problems, as do the `C<openssl>` command line tool and a check with a different SSL implementation (e.g. a web browser).

The following problems are not uncommon:

=over 4

=item *

Bad server setup: missing intermediate certificates.

It is a regular problem that administrators fail to include all necessary certificates into their server setup, e.g. everything needed to build the trust chain from the trusted root.

If they check the setup with the browser everything looks ok, because browsers work around these problems by caching any intermediate certificates and apply them to new connections if certificates are missing.

But, fresh browser profiles which have never seen these intermediates cannot fill in the missing certificates and fail to verify; the same is true with L<IO::Socket::SSL>.

=item *

Old versions of servers or load balancers which do not understand specific TLS versions or croak on specific data.

From time to time one encounters an SSL peer, which just closes the connection inside the SSL handshake. This can usually be worked around by downgrading the SSL version, e.g. by setting C<SSL_version>. Modern Browsers usually deal with such servers by automatically downgrading the SSL version and repeat the connection attempt until they succeed.

Worse servers do not close the underlying TCP connection but instead just drop the relevant packet. This is harder to detect because it looks like a stalled connection. But downgrading the SSL version often works here too.

A cause of such problems are often load balancers or security devices, which have hardware acceleration and only a minimal (and less robust) SSL stack. They can often be detected because they support much fewer ciphers than other implementations.

=item *

Bad or old OpenSSL versions.

L<IO::Socket::SSL> uses OpenSSL with the help of the L<Net::SSLeay> library. It is recommend to have a recent version of this library, because it has more features and usually fewer known bugs.

=item *

Validation of client certificates fail.

Make sure that the purpose of the certificate allows use as ssl client (check with `C<< openssl x509 -purpose >>`, that the necessary root certificate is in the path specified by `C<SSL_ca*>` (or the default path) and that any intermediate certificates needed to build the trust chain are sent by the client.

=item *

Validation of self-signed certificate fails even if it is given with `C<SSL_ca*>` argument.

The `C<SSL_ca*>` arguments do not give a general trust store for arbitrary certificates but only specify a store for CA certificates which then can be used to verify other certificates. This especially means that certificates which are not a CA get simply ignored, notably self-signed certificates which do not also have the CA-flag set.

This behavior of OpenSSL differs from the more general trust-store concept which can be found in browsers and where it is possible to simply added arbitrary certificates (CA or not) as trusted.

=back

=head1 Using Non-Blocking Sockets

If you have a non-blocking socket, the expected behavior on read, write, accept or connect is to set `C<$!>` to `EWOULDBLOCK` if the operation cannot be completed immediately. Note that `EWOULDBLOCK` is the same as `EAGAIN` on UNIX systems, but is different on Windows.

With SSL, handshakes might occur at any time, even within an established connection. In these cases it is necessary to finish the handshake before you can read or write data. This might result in situations where you want to read but must first finish the write of a handshake or where you want to write but must first finish a read.

In these cases `C<$!>` is set to `EAGAIN` like expected, and additionally `C<$SSL_ERROR>` is set to either `SSL_WANT_READ` or `SSL_WANT_WRITE`. Thus if you get `EWOULDBLOCK` on a SSL socket you must check `C<$SSL_ERROR>` for `SSL_WANT_*` and adapt your event mask accordingly.

Using

`readline` on non-blocking sockets does not make much sense and I would advise against using it.

And, while the behavior is not documented for other `L<IO::Socket>` classes, it will try to emulate the behavior seen there, e.g. to return the received data

instead of blocking, even if the line is not complete. If an unrecoverable error occurs it will return nothing, even if it already received some data.

Also, I would advise against using `C<accept>` with a non-blocking SSL object because it might block and this is not what most would expect. The reason for this is that `C<accept>` on a non-blocking TCP socket (e.g. `L<IO::Socket::IP>`, `L<IO::Socket::INET>`..) results in a new TCP socket which does not inherit the non-blocking behavior of the master socket. And thus, the initial SSL handshake on the new socket inside `C<IO::Socket::SSL::accept>` will be done in a blocking way. To work around this you are safer by doing a TCP accept and later upgrade the TCP socket in a non-blocking way with `C<start_SSL>` and `C<accept_SSL>`.

```
my $cl = IO::Socket::SSL->new($dst);
$cl->blocking(0);
my $sel = IO::Select->new($cl);
while (1) {
# with SSL a call for reading n bytes does not result in reading of n
# bytes from the socket, but instead it must read at least one full SSL
# frame. If the socket has no new bytes, but there are unprocessed data
# from the SSL frame can_read will block!

# wait for data on socket
$sel->can_read();

# new data on socket or eof
READ:
# this does not read only 1 byte from socket, but reads the complete SSL
# frame and then just returns one byte. On subsequent calls it than
# returns more byte of the same SSL frame until it needs to read the
# next frame.
my $n = sysread( $cl,my $buf,1);
if ( ! defined $n ) {
    die $! if not ${EWOULDBLOCK};
    next if $SSL_ERROR == SSL_WANT_READ;
    if ( $SSL_ERROR == SSL_WANT_WRITE ) {
# need to write data on renegotiation
$sel->can_write;
next;
    }
    die "something went wrong: $SSL_ERROR";
}
elsif ( ! $n ) {
    last; # eof
} else {
    # read next bytes
    # we might have still data within the current SSL frame
    # thus first process these data instead of waiting on the underlying
```

```

# socket object
goto READ if $cl->pending; # goto sysread
next;          # goto $sel->can_read
}
}

```

Additionally there are differences to plain sockets when using select, poll, kqueue or similar technologies to get notified if data are available.

Relying only on these calls is not sufficient in all cases since unread data might be internally buffered in the SSL stack. To detect such buffering `B<pending()` need to be used. Alternatively the buffering can be avoided by using `B<sysread>` with the maximum size of an SSL frame. See [L</"Common Usage Errors">](#) for details.

=head1 Advanced Usage

=head2 SNI Support

Newer extensions to SSL can distinguish between multiple hostnames on the same IP address using Server Name Indication (SNI).

Support

for SNI on the client side was added somewhere in the OpenSSL 0.9.8 series, but with 1.0 a bug was fixed when the server could not decide about its hostname. Therefore client side SNI is only supported with OpenSSL 1.0 or higher in `L<IO::Socket::SSL>`.

With a supported version, SNI is used automatically on the client side, if it can determine the hostname from `C<PeerAddr>` or `C<PeerHost>` (which are synonyms in the underlying `IO::Socket::` classes and thus should never be set both or at least not to different values).

On unsupported OpenSSL versions it will silently not use SNI.

The hostname can also be given explicitly given with `C<SSL_hostname>`, but in this case it will throw in error, if SNI is not supported.

To check for support you might call `C<< IO::Socket::SSL->can_client_sni() >>`.

On the server side, earlier versions of OpenSSL are supported, but only together with `L<Net::SSLeay>` version `>= 1.50`.

To check for support you might call `C<< IO::Socket::SSL->can_server_sni() >>`.

If

server side SNI is supported, you might specify different certificates per host with `C<SSL_cert*>` and `C<SSL_key*>`, and check the requested name using `C<get_servername>`.

=head2 Talk Plain and SSL With The Same Socket

It is often required to first exchange some plain data and then upgrade the socket to SSL after some kind of STARTTLS command. Protocols like FTPS even

need a way to downgrade the socket again back to plain.

The common way to do this would be to create a normal socket and use C<start_SSL> to upgrade and stop_SSL to downgrade:

```
my $sock = IO::Socket::INET->new(...) or die $!;
... exchange plain data on $sock until starttls command ...
IO::Socket::SSL->start_SSL($sock,%sslargs) or die $SSL_ERROR;
... now $sock is an IO::Socket::SSL object ...
... exchange data with SSL on $sock until stoptls command ...
$sock->stop_SSL or die $SSL_ERROR;
... now $sock is again an IO::Socket::INET object ...
```

But, lots of modules just derive directly from L<IO::Socket::INET>.

While

this base class can be replaced with L<IO::Socket::SSL>, these modules cannot easily support different base classes for SSL and plain data and switch between these classes on a starttls command.

To help in this case, L<IO::Socket::SSL> can be reduced to a plain socket on startup, and connect_SSL/accept_SSL/start_SSL can be used to enable SSL and C<stop_SSL> to talk plain again:

```
my $sock = IO::Socket::SSL->new(
PeerAddr => ...
SSL_startHandshake => 0,
%sslargs
) or die $!;
... exchange plain data on $sock until starttls command ...
$sock->connect_SSL or die $SSL_ERROR;
... now $sock is an IO::Socket::SSL object ...
... exchange data with SSL on $sock until stoptls command ...
$sock->stop_SSL or die $SSL_ERROR;
... $sock is still an IO::Socket::SSL object ...
... but data exchanged again in plain ...
```

=head1 Integration Into Own Modules

L<IO::Socket::SSL> behaves similarly to other L<IO::Socket> modules and thus could be integrated

in the same way, but you have to take special care when using non-blocking I/O (like for handling timeouts) or using select or poll. Please study the documentation on how to deal with these differences.

Also, it is recommended to not set or touch most of the C<SSL_*> options, so that they keep their secure defaults. It is also recommended to let the user override these SSL specific settings without the need of global settings or hacks

like C<set_args_filter_hack>.

The notable exception is C<SSL_verifcn_scheme>.

This should be set to the hostname verification scheme required by the module or protocol.

=head1 Description Of Methods

L<IO::Socket::SSL> inherits from another L<IO::Socket> module.

The choice of the super class depends on the installed modules:

=over 4

=item *

If L<IO::Socket::IP> with at least version 0.20 is installed it will use this module as super class, transparently providing IPv6 and IPv4 support.

=item *

If L<IO::Socket::INET6> is installed it will use this module as super class, transparently providing IPv6 and IPv4 support.

=item *

Otherwise it will fall back to L<IO::Socket::INET>, which is a perl core module. With L<IO::Socket::INET> you only get IPv4 support.

=back

Please be aware that with the IPv6 capable super classes, it will look first for the IPv6 address of a given hostname. If the resolver provides an IPv6 address, but the host cannot be reached by IPv6, there will be no automatic fallback to IPv4.

To avoid these problems you can enforce IPv4 for a specific socket by using the C<Domain> or C<Family> option with the value AF_INET as described in L<IO::Socket::IP>. Alternatively you can enforce IPv4 globally by loading L<IO::Socket::SSL> with the option 'inet4', in which case it will use the IPv4 only class L<IO::Socket::INET> as the super class.

L<IO::Socket::SSL> will provide all of the methods of its super class, but sometimes it will override them to match the behavior expected from SSL or to provide additional

arguments.

The new or changed methods are described below, but please also read the section about SSL specific error handling.

=over 4

=item Error Handling

If an SSL specific error occurs, the global variable C<SSL_ERROR> will be set.

If the error occurred on an existing SSL socket, the method C<errstr> will give access to the latest socket specific error.

Both C<SSL_ERROR> and the C<errstr> method give a dualvar similar to C<\$!>, e.g. providing an error number in numeric context or an error description in string context.

=item B<new(...)>

Creates a new L<IO::Socket::SSL> object. You may use all the friendly options that came bundled with the super class (e.g. L<IO::Socket::IP>, L<IO::Socket::INET>, ...) plus (optionally) the ones described below.

If you don't specify any SSL related options it will do its best in using secure defaults, e.g. choosing good ciphers, enabling proper verification, etc.

=over 2

=item SSL_server

Set this option to a true value if the socket should be used as a server.

If this is not explicitly set it is assumed if the C<Listen> parameter is given when creating the socket.

=item SSL_hostname

This can be given to specify the hostname used for SNI, which is needed if you have multiple SSL hostnames on the same IP address. If not given it will try to determine the hostname from C<PeerAddr>, which will fail if only an IP was given or if this argument is used within C<start_SSL>.

If you want to disable SNI, set this argument to "".

Currently only supported for the client side and will be ignored for the server side.

See section "SNI Support" for details of SNI the support.

=item SSL_startHandshake

If this option is set to false (defaults to true) it will not start the SSL handshake yet. This has to be done later with C<accept_SSL> or C<connect_SSL>. Before the handshake is started read/write/etc. can be used to exchange plain data.

=item SSL_keepSocketOnError

If this option is set to true (defaults to false) it will not close the underlying TCP socket on errors. In most cases there is no real use for this behavior since both sides of the TCP connection will probably have a different idea of the current state of the connection.

=item SSL_ca | SSL_ca_file | SSL_ca_path

Usually you want to verify that the peer certificate has been signed by a trusted certificate authority. In this case you should use this option to specify the file (C<SSL_ca_file>) or directory (C<SSL_ca_path>) containing the certificateZ<>(s) of the trusted certificate authorities.

C<SSL_ca_path> can also be an array or a string containing multiple path, where the path are separated by the platform specific separator. This separator is C<;> on DOS, Windows, Netware, C<,> on VMS and C<:> for all the other systems. If multiple path are given at least one of these must be accessible.

You can also give a list of X509* certificate handles (like you get from L<Net::SSLeasy> or L<IO::Socket::SSL::Utils::PEM_xxx2cert>) with C<SSL_ca>. These will

be added to the CA store before path and file and thus take precedence.

If neither SSL_ca, nor SSL_ca_file or SSL_ca_path are set it will use C<default_ca()> to determine the user-set or system defaults.

If you really don't want to set a CA set SSL_ca_file or SSL_ca_path to C<\undef> or SSL_ca to an empty list. (unfortunately C<"> is used by some modules using L<IO::Socket::SSL> when CA is not explicitly given).

=item SSL_client_ca | SSL_client_ca_file

If verify_mode is VERIFY_PEER on the server side these options can be used to set the list of acceptable CAs for the client. This way the client can select they required certificate from a list of certificates.

The value for these options is similar to C<SSL_ca> and C<SSL_ca_file>.

=item SSL_fingerprint

Sometimes you have a self-signed certificate or a certificate issued by an unknown CA and you really want to accept it, but don't want to disable

verification at all. In this case you can specify the fingerprint of the certificate

as `C<'algo$hex_fingerprint'>`. `C<algo>` is a fingerprint algorithm supported by OpenSSL, e.g. 'sha1','sha256'... and `C<hex_fingerprint>` is the hexadecimal representation of the binary fingerprint. Any colons inside the hex string will be ignored.

If you want to use the fingerprint of the pubkey inside the certificate instead of the certificate use the syntax `C<'algo$pub$hex_fingerprint'>` instead. To get the fingerprint of an established connection you can use `C<get_fingerprint>`.

It is also possible to skip `C<algo$>`, i.e. only specify the fingerprint. In this case the likely algorithms will be automatically detected based on the length of the digest string.

You can specify a list of fingerprints in case you have several acceptable certificates.

If a fingerprint matches the topmost (i.e. leaf) certificate no additional validations can make the verification fail.

`=item SSL_cert_file | SSL_cert | SSL_key_file | SSL_key`

If you create a server you usually need to specify a server certificate which

should be verified by the client. Same is true for client certificates, which should be verified by the server.

The certificate can be given as a file with `SSL_cert_file` or as an internal representation of an X509* object (like you get from `L<Net::SSL>` or `L<IO::Socket::SSL::Utils::PEM_xxx2cert>`) with `SSL_cert`.

If given as a file it will automatically detect the format.

Supported file formats are PEM, DER and PKCS#12, where PEM and PKCS#12 can contain the certificate and the chain to use, while DER can only contain a single certificate.

If given as a list of X509* please note, that the all the chain certificates (e.g. all except the first) will be "consumed" by openssl and will be freed if the SSL context gets destroyed - so you should never free them yourself. But the servers certificate (e.g. the first) will not be consumed by openssl and thus must be freed by the application.

For each certificate a key is need, which can either be given as a file with `SSL_key_file`

or as an internal representation of an EVP_PKEY* object with `SSL_key` (like you get from `L<Net::SSL>` or `L<IO::Socket::SSL::Utils::PEM_xxx2key>`).

If a key was already given within the PKCS#12 file specified by `SSL_cert_file` it will ignore any `SSL_key` or `SSL_key_file`.

If no `SSL_key` or `SSL_key_file` was given it will try to use the PEM file given with `SSL_cert_file` again, maybe it contains the key too.

If your SSL server should be able to use different certificates on the same IP address, depending on the name given by SNI, you can use a hash reference instead of a file with `C<<hostname => cert_file>>`.

If your SSL server should be able to use both RSA and ECDSA certificates for the same domain/IP a similar hash reference like with SNI is given. The domain names used to specify the additional certificates should be `C<hostname%whatever>`, i.e. `C<hostname%ecc>` or similar. This needs at least OpenSSL 1.0.2. To let the server pick the certificate based on the clients cipher preference `C<SSL_honor_cipher_order>` should be set to false.

In case certs and keys are needed but not given it might fall back to builtin defaults, see "Defaults for Cert, Key and CA".

Examples:

```
SSL_cert_file => 'mycert.pem',
SSL_key_file => 'mykey.pem',
```

```
SSL_cert_file => {
  "foo.example.org" => 'foo-cert.pem',
  "foo.example.org%ecc" => 'foo-ecc-cert.pem',
  "bar.example.org" => 'bar-cert.pem',
  # used when nothing matches or client does not support SNI
  " => 'default-cert.pem',
  '%ecc' => 'default-ecc-cert.pem',
},
SSL_key_file => {
  "foo.example.org" => 'foo-key.pem',
  "foo.example.org%ecc" => 'foo-ecc-key.pem',
  "bar.example.org" => 'bar-key.pem',
  # used when nothing matches or client does not support SNI
  " => 'default-key.pem',
  '%ecc' => 'default-ecc-key.pem',
}
```

```
=item SSL_passwd_cb
```

If your private key is encrypted, you might not want the default password prompt from `Net::SSLeay`. This option takes a reference to a subroutine that should return the password required to decrypt your private key.

```
=item SSL_use_cert
```


If this is true, it forces IO::Socket::SSL to use a certificate and key, even if you are setting up an SSL client. If this is set to 0 (the default), then you will only need a certificate and key if you are setting up a server.

SSL_use_cert will implicitly be set if SSL_server is set.

For convenience it is also set if it was not given but a cert was given for use (SSL_cert_file or similar).

=item SSL_version

Sets the version of the SSL protocol used to transmit data.

'SSLv23' uses a handshake compatible with SSL2.0, SSL3.0 and TLS1.x, while 'SSLv2', 'SSLv3', 'TLSv1', 'TLSv1_1', 'TLSv1_2', or 'TLSv1_3' restrict handshake and protocol to the specified version.

All values are case-insensitive. Instead of 'TLSv1_1', 'TLSv1_2', and 'TLSv1_3' one can also use 'TLSv11', 'TLSv12', and 'TLSv13'. Support for 'TLSv1_1', 'TLSv1_2', and 'TLSv1_3' requires recent versions of Net::SSLeay and openssl.

Independent from the handshake format you can limit to set of accepted SSL versions by adding !version separated by ':

The default SSL_version is 'SSLv23:!SSLv3:!SSLv2' which means, that the handshake format is compatible to SSL2.0 and higher, but that the successful handshake is limited to TLS1.0 and higher, that is no SSL2.0 or SSL3.0 because both of these versions have serious security issues and should not be used anymore.

You can also use !TLSv1_1 and !TLSv1_2 to disable TLS versions 1.1 and 1.2 while still allowing TLS version 1.0.

Setting the version instead to 'TLSv1' might break interaction with older clients, which need and SSL2.0 compatible handshake. On the other side some clients just close the connection when they receive a TLS version 1.1 request. In this case setting the version to 'SSLv23:!SSLv2:!SSLv3:!TLSv1_1:!TLSv1_2' might help.

=item SSL_cipher_list

If this option is set the cipher list for the connection will be set to the given value, e.g. something like 'ALL:!LOW:!EXP:!aNULL'.

Look into the OpenSSL documentation (L<<https://www.openssl.org/docs/manmaster/man1/openssl-ciphers.html#CIPHER-STRINGS>>) for more details.

Unless you fail to contact your peer because of no shared ciphers it is

recommended to leave this option at the default setting. The default setting prefers ciphers with forward secrecy, disables anonymous authentication and disables known insecure ciphers like MD5, DES etc. This gives a grade A result at the tests of SSL Labs.

To use the less secure OpenSSL builtin default (whatever this is) set `SSL_cipher_list` to "".

In case different cipher lists are needed for different SNI hosts a hash can be given with the host as key and the cipher suite as value, similar to `B<SSL_cert*>`.

=item `SSL_honor_cipher_order`

If this option is true the cipher order the server specified is used instead of the order proposed by the client. This option defaults to true to make use of our secure cipher list setting.

=item `SSL_dh_file`

To create a server which provides forward secrecy you need to either give the DH parameters or (better, because faster) the ECDH curve. This setting cares about DH parameters.

To support non-elliptic Diffie-Hellman key exchange a suitable file needs to be given here or the `SSL_dh` should be used with an appropriate value. See `dhparam` command in `openssl` for more information.

If neither `C<SSL_dh_file>` nor `C<SSL_dh>` are set a builtin DH parameter with a length of 2048 bit is used to offer DH key exchange by default. If you don't want this (e.g. disable DH key exchange) explicitly set this or the `C<SSL_dh>` parameter to `undef`.

=item `SSL_dh`

Like `SSL_dh_file`, but instead of giving a file you use a preloaded or generated DH*.

=item `SSL_ecdh_curve`

To create a server which provides forward secrecy you need to either give the DH parameters or (better, because faster) the ECDH curve. This setting cares about the ECDH curve(s).

To support Elliptic Curve Diffie-Hellmann key exchange the OID or NID of at least one suitable curve needs to be provided here.

With OpenSSL 1.1.0+ this parameter defaults to C<auto>, which means that it lets OpenSSL pick the best settings. If support for CTX_set_ecdh_auto is implemented in Net::SSLeay (needs at least version 1.86) it will use this to implement the same default. Otherwise it will default to C<prime256v1> (builtin of OpenSSL) in order to offer ECDH key exchange by default.

If setting groups or curves is supported by Net::SSLeay (needs at least version 1.86) then multiple curves can be given here in the order of the preference, i.e. C<P-521:P-384:P-256>. When used at the client side this will include the supported curves as extension in the TLS handshake.

If you don't want to have ECDH key exchange this could be set to undef or set C<SSL_ciphers> to exclude all of these ciphers.

You can check if ECDH support is available by calling
C<< IO::Socket::SSL->can_ecdh >>.

=item SSL_verify_mode

This option sets the verification mode for the peer certificate.

You

may combine SSL_VERIFY_PEER (verify_peer), SSL_VERIFY_FAIL_IF_NO_PEER_CERT (fail verification if no peer certificate exists; ignored for clients),

SSL_VERIFY_CLIENT_ONCE (verify client once; ignored for clients).

See OpenSSL man page for SSL_CTX_set_verify for more information.

The default is SSL_VERIFY_NONE for server (e.g. no check for client certificate) and SSL_VERIFY_PEER for client (check server certificate).

=item SSL_verify_callback

If you want to verify certificates yourself, you can pass a sub reference along with this parameter to do so. When the callback is called, it will be passed:

=over 4

=item 1.

a true/false value that indicates what OpenSSL thinks of the certificate,

=item 2.

a C-style memory address of the certificate store,

=item 3.

a string containing the certificate's issuer attributes and owner attributes,
and

=item 4.

a string containing any errors encountered (0 if no errors).

=item 5.

a C-style memory address of the peer's own certificate (convertible to PEM form with `Net::SSLeay::PEM_get_string_X509()`).

=item 6.

The depth of the certificate in the chain. Depth 0 is the leaf certificate.

=back

The function should return 1 or 0, depending on whether it thinks the certificate is valid or invalid. The default is to let OpenSSL do all of the busy work.

The callback will be called for each element in the certificate chain.

See the OpenSSL documentation for `SSL_CTX_set_verify` for more information.

=item `SSL_verifycn_scheme`

The scheme is used to correctly verify the identity inside the certificate by using the hostname of the peer.

See the information about the verification schemes in `B<verify_hostname>`.

If you don't specify a scheme it will use 'default', but only complain loudly if the name verification fails instead of letting the whole certificate verification fail. THIS WILL CHANGE, e.g. it will let the certificate verification fail in the future if the hostname does not match the certificate !!!! To override the name used in verification use `B<SSL_verifycn_name>`.

The scheme 'default' is a superset of the usual schemes, which will accept the hostname in common name and subjectAltName and allow wildcards everywhere. While using this scheme is way more secure than no name verification at all you better should use the scheme specific to your application protocol, e.g. 'http', 'ftp'...

If you are really sure, that you don't want to verify the identity using the hostname you can use 'none' as a scheme. In this case you'd better have alternative forms of verification, like a certificate fingerprint or do a manual verification later by calling `B<verify_hostname>` yourself.

=item `SSL_verifycn_publicsuffix`

This option is used to specify the behavior when checking wildcard certificates for public suffixes, e.g. no wildcard certificates for *.com or *.co.uk should be accepted, while *.example.com or *.example.co.uk is ok.

If not specified it will simply use the builtin default of `L<IO::Socket::SSL::PublicSuffix>`,
you can create another object with
`from_string` or `from_file` of this module.

To disable verification of public suffix set this option to `C<">`.

=item `SSL_verifycn_name`

Set the name which is used in verification of hostname. If `SSL_verifycn_scheme` is set and no `SSL_verifycn_name` is given it will try to use `SSL_hostname` or `PeerHost` and `PeerAddr` settings and fail if no name can be determined.
If `SSL_verifycn_scheme` is not set it will use a default scheme and warn if it cannot determine a hostname, but it will not fail.

Using `PeerHost` or `PeerAddr` works only if you create the connection directly with `C<< IO::Socket::SSL->new >>`, if an `IO::Socket::INET` object is upgraded with `B<start_SSL>` the name has to be given in `B<SSL_verifycn_name>` or `B<SSL_hostname>`.

=item `SSL_check_crl`

If you want to verify that the peer certificate has not been revoked by the signing authority, set this value to true. OpenSSL will search for the CRL in your `SSL_ca_path`, or use the file specified by `SSL_crl_file`.

See the `Net::SSLeay` documentation for more details.

Note that this functionality appears to be broken with OpenSSL < v0.9.7b, so its use with lower versions will result in an error.

=item `SSL_crl_file`

If you want to specify the CRL file to be used, set this value to the pathname to be used. This must be used in addition to setting `SSL_check_crl`.

=item `SSL_ocsp_mode`

Defines how certificate revocation is done using OCSP (Online Status Revocation Protocol). The default is to send a request for OCSP stapling to the server and if the server sends an OCSP response back the result will be used.

Any other OCSP checking needs to be done manually with `C<ocsp_resolver>`.

The following flags can be combined with `C<|>`:

=over 8

=item SSL_OCSP_NO_STAPLE

Don't ask for OCSP stapling.

This is the default if SSL_verify_mode is VERIFY_NONE.

=item SSL_OCSP_TRY_STAPLE

Try OCSP stapling, but don't complain if it gets no stapled response back.

This is the default if SSL_verify_mode is VERIFY_PEER

(the default).

=item SSL_OCSP_MUST_STAPLE

Consider it a hard error, if the server does not send a stapled OCSP response back. Most servers currently send no stapled OCSP response back.

=item SSL_OCSP_FAIL_HARD

Fail hard on response errors, default is to fail soft like the browsers do.

Soft errors mean, that the OCSP response is not usable, e.g. no response, error response, no valid signature etc.

Certificate revocations inside a verified response are considered hard errors in any case.

Soft errors inside a stapled response are never considered hard, e.g. it is expected that in this case an OCSP request will be send to the responsible OCSP responder.

=item SSL_OCSP_FULL_CHAIN

This will set up the C<ocsp_resolver> so that all certificates from the peer chain will be checked, otherwise only the leaf certificate will be checked against revocation.

=back

=item SSL_ocsp_staple_callback

If this callback is defined, it will be called with the SSL object and the OCSP response

handle obtained from the peer, e.g. C<<\$cb->(\$ssl,\$resp)>>.

If the peer did not provide a stapled OCSP response the function will be called with C<\$resp=undef>.

Because the OCSP response handle is no longer valid after leaving this function it should not be copied or freed. If access to the response is necessary after leaving this function it can be serialized with

C<Net::SSLeay::i2d_OCSP_RESPONSE>.

If no such callback is provided, it will use the default one, which verifies the response and uses it to check if the certificate(s) of the connection got revoked.

=item SSL_ocsp_cache

With this option a cache can be given for caching OCSP responses, which could be shared between different SSL contexts. If not given a cache specific to the SSL context only will be used.

You can either create a new cache with `C<< IO::Socket::SSL::OCSP_Cache->new([size]) >>` or implement your own cache, which needs to have methods `C<put($key,%entry)>` and `C<get($key)>` (returning `C<\%entry>`) where entry is the hash representation of the OCSP response with fields like `C<nextUpdate>`. The default implementation of the cache will consider responses valid as long as `C<nextUpdate>` is less then the current time.

=item SSL_reuse_ctx

If you have already set the above options for a previous instance of `IO::Socket::SSL`, then you can reuse the SSL context of that instance by passing it as the value for the `SSL_reuse_ctx` parameter. You may also create a new instance of the `IO::Socket::SSL::SSL_Context` class, using any context options that you desire without specifying connection options, and pass that here instead.

If you use this option, all other context-related options that you pass in the same call to `new()` will be ignored unless the context supplied was invalid. Note that, contrary to versions of `IO::Socket::SSL` below v0.90, a global SSL context will not be implicitly used unless you use the `set_default_context()` function.

=item SSL_create_ctx_callback

With this callback you can make individual settings to the context after it got created and the default setup was done. The callback will be called with the CTX object from `Net::SSLeay` as the single argument.

Example for limiting the server session cache size:

```
SSL_create_ctx_callback => sub {  
    my $ctx = shift;  
    Net::SSLeay::CTX_sess_set_cache_size($ctx,128);  
}
```

=item SSL_session_cache_size

If you make repeated connections to the same host/port and the SSL renegotiation time is an issue, you can turn on client-side session caching with this option by specifying a positive cache size. For successive connections, pass the SSL_reuse_ctx option to the new() calls (or use set_default_context()) to make use of the cached sessions. The session cache size refers to the number of unique host/port pairs that can be stored at one time; the oldest sessions in the cache will be removed if new ones are added.

This option does not effect the session cache a server has for it's clients, e.g. it does not affect SSL objects with SSL_server set.

Note that session caching with TLS 1.3 needs at least Net::SSLeay 1.86.

=item SSL_session_cache

Specifies session cache object which should be used instead of creating a new. Overrides SSL_session_cache_size. This option is useful if you want to reuse the cache, but not the rest of the context.

A session cache object can be created using
C<< IO::Socket::SSL::Session_Cache->new(cachesize) >>.

Use set_default_session_cache() to set a global cache object.

=item SSL_session_key

Specifies a key to use for lookups and inserts into client-side session cache. Per default ip:port of destination will be used, but sometimes you want to share the same session over multiple ports on the same server (like with FTPS).

=item SSL_session_id_context

This gives an id for the servers session cache. It's necessary if you want clients to connect with a client certificate. If not given but SSL_verify_mode specifies the need for client certificate a context unique id will be picked.

=item SSL_error_trap

When using the accept() or connect() methods, it may be the case that the actual socket connection works but the SSL negotiation fails, as in the case of an HTTP client connecting to an HTTPS server. Passing a subroutine ref attached to this parameter allows you to gain control of the orphaned socket instead of

having it be closed forcibly.

The subroutine, if called, will be passed two parameters:

a reference to the socket on which the SSL negotiation failed and the full text of the error message.

=item SSL_npn_protocols

If used on the server side it specifies list of protocols advertised by SSL server as an array ref, e.g. ['spdy/2','http1.1'].

On the client side it specifies the protocols offered by the client for NPN as an array ref.

See also method C<next_proto_negotiated>.

Next Protocol Negotiation (NPN) is available with Net::SSLeay 1.46+ and openssl-1.0.1+. NPN is unavailable in TLSv1.3 protocol.

To check support you might call C<< IO::Socket::SSL->can_npn()
>>.

If you use this option with an unsupported Net::SSLeay/OpenSSL it will throw an error.

=item SSL_alpn_protocols

If used on the server side it specifies list of protocols supported by the SSL server as an array ref, e.g. ['http/2.0', 'spdy/3.1','http/1.1'].

On the client side it specifies the protocols advertised by the client for ALPN as an array ref.

See also method C<alpn_selected>.

Application-Layer Protocol Negotiation (ALPN) is available with Net::SSLeay 1.56+ and openssl-1.0.2+. More details about the extension are in RFC7301. To check support you might call C<< IO::Socket::SSL->can_alpn() >>. If you use this option with an unsupported Net::SSLeay/OpenSSL it will throw an error.

Note that some client implementations may encounter problems if both NPN and ALPN are specified. Since ALPN is intended as a replacement for NPN, try providing ALPN protocols then fall back to NPN if that fails.

=item SSL_ticket_keycb => [\$sub,\$data] | \$sub

This is a callback used

for stateless session reuse (Session Tickets, RFC 5077).

This callback will be called as C<< \$sub->(\$data,\$key_name) >> where C<\$data> is the argument given to SSL_ticket_keycb (or undef) and C<\$key_name> depends on the mode:

=over 8

=item encrypt ticket

If a ticket needs to be encrypted the callback will be called without C<\$key_name>. In this case it should return C<(\$current_key,\$current_key_name>) where C<\$current_key> is the current key (32 byte random data) and C<\$current_key_name> the name associated with this key (exactly 16 byte). This C<\$current_key_name> will be incorporated into the ticket.

=item decrypt ticket

If a ticket needs to be decrypted the callback will be called with C<\$key_name> as found in the ticket. It should return C<(\$key,\$current_key_name>) where C<\$key> is the key associated with the given C<\$key_name> and C<\$current_key_name> the name associated with the currently active key. If C<\$current_key_name> is different from the given C<\$key_name> the callback will be called again to re-encrypt the ticket with the currently active key.

If no key can be found which matches the given C<\$key_name> then this function should return nothing (empty list).

This mechanism should be used to limit the life time for each key encrypting the ticket. Compromise of a ticket encryption key might lead to decryption of SSL sessions which used session tickets protected by this key.

=back

Example:

```
Net::SSLeay::RAND_bytes(my $oldkey,32);
Net::SSLeay::RAND_bytes(my $newkey,32);
my $oldkey_name = pack("a16",'oldsecret');
my $newkey_name = pack("a16",'newsecret');

my @keys = (
    [ $newkey_name, $newkey ], # current active key
    [ $oldkey_name, $oldkey ], # already expired
);

my $keycb = [ sub {
    my ($mykeys,$name) = @_;

    # return (current_key, current_key_name) if no name given
    return ($mykeys->[0][1],$mykeys->[0][0]) if ! $name;

    # return (matching_key, current_key_name) if we find a
    key matching
    # the given name
```

```

    for(my $i = 0; $i<@$mykeys; $i++) {
    next if $name ne $mykeys->[$i][0];
    return ($mykeys->[$i][1],$mykeys->[0][0]);
    }

```

```

    # no matching key found
    return;
},\@keys ];

```

```

my $srv = IO::Socket::SSL->new(..., SSL_ticket_keycb => $keycb);

```

```

=item SSL_mode_release_buffers 1|0

```

This enables or disables the `SSL_MODE_RELEASE_BUFFERS` option on the SSL object. With this option the read buffer will be released after each `SSL_read` but will need to be reallocated for each new `SSL_read`. If memory usage is a concern this might save lots of memory in the mean time though, about 34k per idle SSL connection according to the documentation in `SSL_CTX_set_mode(3ssl)`.

```

=back

```

```

=item B<accept>

```

This behaves similar to the `accept` function of the underlying socket class, but additionally does the initial SSL handshake. But because the underlying socket class does return a blocking file handle even when `accept` is called on a non-blocking socket, the SSL handshake on the new file object will be done in a blocking way. Please see the section about non-blocking I/O for details. If you don't like this behavior you should do `accept` on the TCP socket and then upgrade it with `C<start_SSL>` later.

```

=item B<connect(...)>

```

This behaves similar to the `connect` function but also does an SSL handshake. Because you cannot give SSL specific arguments to this function, you should better either use `C<new>` to create a connect SSL socket or `C<start_SSL>` to upgrade an established TCP socket to SSL.

```

=item B<close(...)>

```

Contrary to a `close` for a simple INET socket a `close` in SSL also mandates a proper shutdown of the SSL part. This is done by sending a close notify message by both peers.

A naive implementation would thus wait until it receives the close notify message from the peer - which conflicts with the commonly expected semantic that a `close` will not block. The default behavior is thus to only send

a close notify but not wait for the close notify of the peer. If this is required C<SSL_fast_shutdown> need to be explicitly set to false.

There are also cases where a SSL shutdown should not be done at all. This is true for example when forking to let a child deal with the socket and closing the socket in the parent process. A naive explicit C<close> or an implicit close when destroying the socket in the parent would send a close notify to the peer which would make the SSL socket in the client process unusable. In this case an explicit C<close> with C<SSL_no_shutdown> set to true should be done in the parent process.

For more details and other arguments see C<stop_SSL> which gets called from C<close> to shutdown the SSL state of the socket.

=item B<sysread(BUF, LEN, [OFFSET])>

This function behaves from the outside the same as B<sysread> in other L<IO::Socket> objects, e.g. it returns at most LEN bytes of data.

But in reality it reads not only LEN bytes from the underlying socket, but at a single SSL frame. It then

returns up to LEN bytes it decrypted from this SSL frame. If the frame contained more data than requested it will return only LEN data, buffer the rest and return it on further read calls.

This means, that it might be possible to read data, even if the underlying socket is not readable, so using poll or select might not be sufficient.

sysread will only return data from a single SSL frame, e.g. either the pending data from the already buffered frame or it will read a frame from the underlying socket and return the decrypted data. It will not return data spanning several SSL frames in a single call.

Also, calls to sysread might fail, because it must first finish an SSL handshake.

To understand these behaviors is essential, if you write applications which use event loops and/or non-blocking sockets. Please read the specific sections in this documentation.

=item B<syswrite(BUF, [LEN, [OFFSET]])>

This functions behaves from the outside the same as B<syswrite> in other L<IO::Socket>

objects, e.g. it will write at most LEN bytes to the socket, but there is no guarantee, that all LEN bytes are written. It will return the number of bytes written.

Because it basically just calls SSL_write from OpenSSL syswrite will write at most a single SSL frame. This means, that no more than 16.384 bytes, which is

the maximum size of an SSL frame, will be written at once.

For non-blocking sockets SSL specific behavior applies.
Please read the specific section in this documentation.

=item B<peek(BUF, LEN, [OFFSET])>

This function has exactly the same syntax as B<sysread>, and performs nearly the same task but will not advance the read position so that successive calls to peek() with the same arguments will return the same results. This function requires OpenSSL 0.9.6a or later to work.

=item B<pending()>

This function gives you the number of bytes available without reading from the underlying socket object. This function is essential if you work with event loops, please
see the section about polling SSL sockets.

=item B<get_fingerprint([algo,certificate,pubkey])>

This methods returns the fingerprint of the given certificate in the form C<algo\$digest_hex>, where C<algo> is the used algorithm, default 'sha256'.
If no certificate is given the peer certificate of the connection is used.
If C<pubkey> is true it will not return the fingerprint of the certificate but instead the fingerprint of the pubkey inside the certificate as C<algo\$pub\$digest_hex>.

=item B<get_fingerprint_bin([algo,certificate,pubkey])>

This methods returns the binary fingerprint of the given certificate by using the algorithm C<algo>, default 'sha256'.
If no certificate is given the peer certificate of the connection is used.
If C<pubkey> is true it will not return the fingerprint of the certificate but instead the fingerprint of the pubkey inside the certificate.

=item B<get_cipher()>

Returns the string form of the cipher that the IO::Socket::SSL object is using.

=item B<get_sslversion()>

Returns
the string representation of the SSL version of an established connection.

=item B<get_sslversion_int()>

Returns the integer representation of the SSL version of an established connection.

=item B<get_session_reused()>

This returns true if the session got reused and false otherwise. Note that with a reused session no certificates are sent within the handshake and no ciphers are offered and thus functions which rely on this might not work.

=item B<dump_peer_certificate()>

Returns a parsable string with select fields from the peer SSL certificate. This method directly returns the result of the dump_peer_certificate() method of Net::SSLay.

=item B<peer_certificate(\$field;[\$refresh])>

If a peer certificate exists, this function can retrieve values from it. If no field is given the internal representation of certificate from Net::SSLay is returned. If refresh is true it will not use a cached version, but check again in case the certificate of the connection has changed due to renegotiation.

The following fields can be queried:

=over 8

=item authority (alias issuer)

The certificate authority which signed the certificate.

=item owner (alias subject)

The owner of the certificate.

=item commonName (alias cn) - only for Net::SSLay version >=1.30

The common name, usually the server name for SSL certificates.

=item subjectAltNames - only for Net::SSLay version >=1.33

Alternative names for the subject, usually different names for the same server, like example.org, example.com, *.example.com.

It returns a list of (typ,value) with typ GEN_DNS, GEN_IPADD etc (these constants are exported from IO::Socket::SSL).

See Net::SSLay::X509_get_subjectAltNames.

=back

=item B<sock_certificate(\$field)>

This is similar to C<peer_certificate> but will return the sites own certificate. The same arguments for B<\$field> can be used.

If no B<\$field> is given the certificate handle from the underlying OpenSSL will be returned. This handle will only be valid as long as the SSL connection exists and if used afterwards it might result in strange crashes of the application.

=item B<peer_certificates>

This returns all the certificates send by the peer, e.g. first the peers own certificate and then the rest of the chain. You might use B<CERT_asHash> from L<IO::Socket::SSL::Utils> to inspect each of the certificates.

This function depends on a version of Net::SSLeay >= 1.58 .

=item B<get_servername>

This gives the name requested by the client if Server Name Indication (SNI) was used.

=item B<verify_hostname(\$hostname,\$scheme,\$publicsuffix)>

This verifies the given hostname against the peer certificate using the given scheme. Hostname is usually what you specify within the PeerAddr. See the C<SSL_verifycn_publicsuffix> parameter for an explanation of suffix checking and for the possible values.

Verification of hostname against a certificate is different between various applications and RFCs. Some scheme allow wildcards for hostnames, some only in subjectAltNames, and even their different wildcard schemes are possible. RFC 6125 provides a good overview.

To ease the verification the following schemes are predefined (both protocol name and rfcXXXX name can be used):

=over 8

=item rfc2818, xmpp (rfc3920), ftp (rfc4217)

Extended wildcards in subjectAltNames and common name are possible, e.g. *.example.org or even www*.example.org. The common name will be only checked if no DNS names are given in subjectAltNames.

=item http (alias www)

While name checking is defined in rfc2818 the current browsers usually accept also an IP address (w/o wildcards) within the common name as long as no subjectAltNames are defined. Thus this is rfc2818 extended with this feature.

=item smtp (rfc2595), imap, pop3, acap (rfc4642), netconf (rfc5538), syslog (rfc5425), snmp (rfc5953)

Simple wildcards in subjectAltNames are possible, e.g. *.example.org matches www.example.org but not lala.www.example.org. If nothing from subjectAltNames match it checks against the common name, where wildcards are also allowed to match the full leftmost label.

=item ldap (rfc4513)

Simple wildcards are allowed in subjectAltNames, but not in common name. Common name will be checked even if subjectAltNames exist.

=item sip (rfc5922)

No wildcards are allowed and common name is checked even if subjectAltNames exist.

=item gist (rfc5971)

Simple wildcards are allowed in subjectAltNames and common name, but common name will only be checked if there are no DNS names in subjectAltNames.

=item default

This is a superset of all the rules and is automatically used if no scheme is given but a hostname (instead of IP) is known. Extended wildcards are allowed in subjectAltNames and common name and common name is checked always.

=item none

No verification will be done. Actually it does not make any sense to call verify_hostname in this case.

=back

The scheme can be given either by specifying the name for one of the above predefined schemes, or by using a hash which can have the following keys and values:

=over 8

=item check_cn: 0|'always'|'when_only'

Determines if the common name gets checked. If 'always' it will always be checked (like in ldap), if 'when_only' it will only be checked if no names are given in subjectAltNames (like in http), for any other values the common name will not be checked.

=item wildcards_in_alt: 0|'full_label'|'anywhere'

Determines if and where wildcards in subjectAltNames are possible. If 'full_label' only cases like *.example.org will be possible (like in ldap), for 'anywhere' www*.example.org is possible too (like http), dangerous things like but www.*.org or even '*' will not be allowed. For compatibility with older versions 'leftmost' can be given instead of 'full_label'.

=item wildcards_in_cn: 0|'full_label'|'anywhere'

Similar to wildcards_in_alt, but checks the common name. There is no predefined scheme which allows wildcards in common names.

=item ip_in_cn: 0|1|4|6

Determines

if an IP address is allowed in the common name (no wildcards are allowed). If set to 4 or 6 it only allows IPv4 or IPv6 addresses, any other true value allows both.

=item callback: \&coderef

If you give a subroutine for verification it will be called with the arguments (\$hostname,\$commonName,@subjectAltNames), where hostname is the name given for verification, commonName is the result from peer_certificate('cn') and subjectAltNames is the result from peer_certificate('subjectAltNames').

All other arguments for the verification scheme will be ignored in this case.

=back

=item B<next_proto_negotiated()>

This method returns the name of negotiated protocol - e.g. 'http/1.1'. It works for both client and server side of SSL connection.

NPN support is available with Net::SSLeay 1.46+ and openssl-1.0.1+.

To check support you might call `C<< IO::Socket::SSL->can_npn() >>`.

=item B<alpn_selected()>

Returns the protocol negotiated via ALPN as a string, e.g. 'http/1.1', 'http/2.0' or 'spdy/3.1'.

ALPN

support is available with Net::SSLeay 1.56+ and openssl-1.0.2+.

To check support, use `C<< IO::Socket::SSL->can_alpn() >>`.

=item B<errstr()>

Returns the last error (in string form) that occurred. If you do not have a real object to perform this method on, call `IO::Socket::SSL::errstr()` instead.

For read and write errors on non-blocking sockets, this method may include the string `C<SSL wants a read first!>` or `C<SSL wants a write first!>` meaning that the other side is expecting to read from or write to the socket and wants to be satisfied before you get to do anything. But with version 0.98 you are better comparing the global exported variable `$SSL_ERROR` against the exported symbols `SSL_WANT_READ` and `SSL_WANT_WRITE`.

=item B<opened()>

This returns false if the socket could not be opened, 1 if the socket could be opened and the SSL handshake was successful done and -1 if the underlying `IO::Handle` is open, but the SSL handshake failed.

=item B<< IO::Socket::SSL->start_SSL(\$socket,
...) >>

This will convert a glob reference or a socket that you provide to an `IO::Socket::SSL` object. You may also pass parameters to specify context or connection options as with a call to `new()`. If you are using this function on an `accept()`ed socket, you must set the parameter `"SSL_server"` to 1, i.e. `IO::Socket::SSL->start_SSL($socket, SSL_server => 1)`. If you have a class that inherits from `IO::Socket::SSL` and you want the `$socket` to be blessed into your own class instead, use `MyClass->start_SSL($socket)` to achieve the desired effect.

Note that if `start_SSL()` fails in SSL negotiation, `$socket` will remain blessed in its original class. For non-blocking sockets you better just upgrade the socket to `IO::Socket::SSL` and call `accept_SSL` or `connect_SSL` and the upgraded object. To just upgrade the socket set `B<SSL_startHandshake>` explicitly to 0. If you call `start_SSL` w/o this parameter it will revert to blocking behavior for `accept_SSL` and `connect_SSL`.

If given the parameter

"Timeout" it will stop if after the timeout no SSL connection was established. This parameter is only used for blocking sockets, if it is not given the default Timeout from the underlying IO::Socket will be used.

=item B<stop_SSL(...)>

This is the opposite of start_SSL(), connect_SSL() and accept_SSL(), e.g. it will shutdown the SSL connection and return to the class before start_SSL(). It gets the same arguments as close(), in fact close() calls stop_SSL() (but without downgrading the class).

Will return true if it succeeded and undef if failed. This might be the case for non-blocking sockets. In this case \$! is set to EWOULDBLOCK and the ssl error to SSL_WANT_READ or SSL_WANT_WRITE. In this case the call should be retried again with the same arguments once the socket is ready.

For calling from C<stop_SSL> C<SSL_fast_shutdown> default to false, e.g. it waits for the close_notify of the peer. This is necessary in case you want to downgrade the socket and continue to use it as a plain socket.

After stop_SSL the socket can again be used to exchange plain data.

=item B<connect_SSL>, B<accept_SSL>

These functions should be used to do the relevant handshake, if the socket got created with C<new> or upgraded with C<start_SSL> and C<SSL_startHandshake> was set to false.

They will return undef until the handshake succeeded or an error got thrown.

As long as the function returns undef and \$! is set to EWOULDBLOCK one could retry the call after the socket got readable (SSL_WANT_READ) or writeable (SSL_WANT_WRITE).

=item B<ocsp_resolver>

This will create an OCSP resolver object, which can be used to create OCSP requests for the certificates of the SSL connection. Which certificates are verified depends on the setting of C<SSL_ocsp_mode>: by default only the leaf certificate will be checked, but with SSL_OCSP_FULL_CHAIN all chain certificates will be checked.

Because to create an OCSP request the certificate and its issuer certificate need to be known it is not possible to check certificates when the trust chain is incomplete or if the certificate is self-signed.

The OCSP resolver gets created by calling `C<< $ssl->ocsp_resolver >>` and provides the following methods:

`=over 8`

`=item hard_error`

This returns the hard error when checking the OCSP response.

Hard errors are certificate revocations. With the `C<SSL_ocsp_mode>` of `SSL_OCSP_FAIL_HARD` any soft error (e.g. failures to get signed information about the certificates) will be considered a hard error too.

The OCSP resolving will stop on the first hard error.

The method will return `undef` as long as no hard errors occurred and still requests to be resolved. If all requests got resolved and no hard errors occurred the method will return `C<">`.

`=item soft_error`

This returns the soft error(s) which occurred when asking the OCSP responders.

`=item requests`

This will return a hash consisting of `C<(url,request)>`-tuples, e.g. which contain the OCSP request string and the URL where it should be sent too. The

usual way to send such a request is as HTTP POST request with a content-type of `C<application/ocsp-request>` or as a GET request with the base64 and url-encoded request is added to the path of the URL.

After you've handled all these requests and added the response with `C<add_response>` you should better call this method again to make sure, that no more requests are outstanding. `IO::Socket::SSL` will combine multiple OCSP requests for the same server inside a single request, but some server don't give a response to all these requests, so that one has to ask again with the remaining requests.

`=item add_response($uri,$response)`

This method takes the HTTP body of the response which got received when sending the OCSP request to `C<$uri>`. If no response was received or an error occurred one should either retry or consider `C<$response>` as empty which will trigger a soft error.

The method returns the current value of `C<hard_error>`, e.g. a defined value when no more requests need to

be done.

=item resolve_blocking(%args)

This combines C<requests> and C<add_response> which L<HTTP::Tiny> to do all necessary requests in a blocking way. C<%args> will be given to L<HTTP::Tiny> so that you can put proxy settings etc here. L<HTTP::Tiny> will be called with C<verify_SSL> of false, because the OCSP responses have their own signatures so no extra SSL verification is needed.

If you don't want to use blocking requests you need to roll your own user agent with C<requests> and C<add_response>.

=back

=item B<< IO::Socket::SSL->new_from_fd(\$fd, [mode], %sslargs) >>

This will convert a socket identified via a file descriptor into an SSL socket. Note that the argument list does not include a "MODE" argument; if you supply one, it will be thoughtfully ignored (for compatibility with IO::Socket::INET). Instead, a mode of '+' is assumed, and the file descriptor passed must be able to handle such I/O because the initial SSL handshake requires bidirectional communication.

Internally

the given \$fd will be upgraded to a socket object using the C<new_from_fd> method of the super class (L<IO::Socket::INET> or similar) and then C<start_SSL> will be called using the given C<%sslargs>.

If C<\$fd> is already an IO::Socket object you should better call C<start_SSL> directly.

=item B<IO::Socket::SSL::default_ca([path|dir| SSL_ca_file => ..., SSL_ca_path => ...])>

Determines or sets the default CA path.

If existing path or dir or a hash is given it will set the default CA path to this value and never try to detect it automatically.

If C<undef> is given it will forget any stored defaults and continue with detection of system defaults.

If no arguments are given it will start detection of system defaults, unless it has already stored user-set or previously detected values.

The detection of system defaults works similar to OpenSSL, e.g. it will check the directory specified in environment variable SSL_CERT_DIR or the path OPENSSLDIR/certs (SSLCERTS: on VMS) and the file specified in environment variable SSL_CERT_FILE or the path OPENSSLDIR/cert.pem (SSLCERTS:cert.pem on VMS). Contrary to OpenSSL it will check if the SSL_ca_path contains PEM files with the hash as file name and if the SSL_ca_file looks like PEM.

If no usable system default can be found it will try to load and use
L<Mozilla::CA> and if not available give up detection.
The result of the detection will be saved to speed up future calls.

The function returns the saved default CA as hash with SSL_ca_file and
SSL_ca_path.

=item B<IO::Socket::SSL::set_default_context(...)>

You may use this to make IO::Socket::SSL automatically re-use a given context
(unless specifically overridden in a call to new()).

It accepts one argument, which should be either an IO::Socket::SSL object or an
IO::Socket::SSL::SSL_Context object.

See the SSL_reuse_ctx option of new() for more details.

Note that this sets the default context globally, so use with caution (esp. in
mod_perl scripts).

=item B<IO::Socket::SSL::set_default_session_cache(...)>

You

may use this to make IO::Socket::SSL automatically re-use a given session
cache (unless specifically overridden in a call to new()).

It accepts one argument, which should be an IO::Socket::SSL::Session_Cache
object or similar (e.g. something which implements get_session, add_session and
del_session like IO::Socket::SSL::Session_Cache does).

See the SSL_session_cache option of new() for more details.

Note that this sets the default cache globally, so use with caution.

=item B<IO::Socket::SSL::set_defaults(%args)>

With this function one can set defaults for all SSL_* parameter used for
creation of the context, like the SSL_verify* parameter. Any SSL_* parameter can
be given or the following short versions:

=over 8

=item mode - SSL_verify_mode

=item callback - SSL_verify_callback

=item scheme - SSL_verifcn_scheme

=item name - SSL_verifcn_name

=back

=item B<IO::Socket::SSL::set_client_defaults(%args)>

Similar to C<set_defaults>, but only
sets the defaults for client mode.

=item B<IO::Socket::SSL::set_server_defaults(%args)>

Similar to C<set_defaults>, but only sets the defaults for server mode.

=item B<IO::Socket::SSL::set_args_filter_hack('&code|'use_defaults')>

Sometimes one has to use code which uses unwanted or invalid arguments for SSL,
typically disabling SSL verification or setting wrong ciphers or SSL versions.
With this hack it is possible to override these settings and restore sanity.
Example:

```
IO::Socket::SSL::set_args_filter_hack( sub {  
  my ($is_server,$args) = @_;  
  if ( ! $is_server ) {  
    # client settings - enable verification with default CA  
    # and fallback hostname verification etc  
    delete @{$args}{qw(  
      SSL_verify_mode  
      SSL_ca_file  
      SSL_ca_path  
      SSL_verifyscheme  
      SSL_version  
    )};  
    # and add some fingerprints for known certs which are signed by  
    # unknown CAs or are self-signed  
    $args->{SSL_fingerprint} = ...  
  }  
});
```

With the short setting C<set_args_filter_hack('use_defaults')>
it will prefer
the default settings in all cases. These default settings can be modified with
C<set_defaults>, C<set_client_defaults> and C<set_server_defaults>.

=back

The following methods are unsupported (not to mention futile!) and
IO::Socket::SSL will emit a large CROAK() if you are silly enough to use them:

=over 4

=item truncate

=item stat

=item ungetc

=item setbuf

=item setvbuf

=item fdopen

=item send/recv

Note that send() and recv() cannot be reliably trapped by a tied filehandle (such as that used by IO::Socket::SSL) and so may send unencrypted data over the socket. Object-oriented calls to these functions will fail, telling you to use the print/printf/syswrite and read/sysread families instead.

=back

=head1 DEPRECATIONS

The following functions are deprecated and are only retained for compatibility:

=over 2

=item context_init()

use the SSL_reuse_ctx option if you want to re-use a context

=item socketToSSL() and socket_to_SSL()

use IO::Socket::SSL->start_SSL()
instead

=item kill_socket()

use close() instead

=item get_peer_certificate()

use the peer_certificate() function instead.

Used to return X509_Certificate with methods subject_name and issuer_name.
Now simply returns \$self which has these methods (although deprecated).

=item issuer_name()

use peer_certificate('issuer') instead

=item subject_name()

use `peer_certificate( 'subject' )` instead

=back

=head1 EXAMPLES

See the 'example' directory, the tests in 't' and also the tools in 'util'.

=head1 BUGS

If you use `IO::Socket::SSL` together with threads you should load it (e.g. use or require) inside the main thread before creating any other threads which use it. This way it is much faster because it will be initialized only once. Also there are reports that it might crash the other way.

Creating an `IO::Socket::SSL` object in one thread and closing it in another thread will not work.

`IO::Socket::SSL` does not work together with `Storable::fd_retrieve/fd_store`.
See
BUGS file for more information and how to work around the problem.

Non-blocking and timeouts (which are based on non-blocking) are not supported on Win32, because the underlying `IO::Socket::INET` does not support non-blocking on this platform.

If you have a server and it looks like you have a memory leak you might check the size of your session cache. Default for `Net::SSLeay` seems to be 20480, see the example for `SSL_create_ctx_callback` for how to limit it.

TLS 1.3 support regarding session reuse is incomplete.

=head1 SEE ALSO

`IO::Socket::INET`, `IO::Socket::INET6`, `IO::Socket::IP`, `Net::SSLeay`.

=head1 THANKS

Many thanks to all who added patches or reported bugs or helped `IO::Socket::SSL` another way. Please keep reporting bugs and help with patches, even if they just fix the documentation.

Special thanks to the team of `Net::SSLeay` for the good cooperation.

=head1 AUTHORS

Steffen Ullrich, <sullr at cpan.org> is the current maintainer.

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(Note the lack of an "i" at the end of "behrooz")

Marko Asplund, <marko.asplund at kronodoc.fi>, was the original author of IO::Socket::SSL.

Patches incorporated from various people, see file Changes.

=head1 COPYRIGHT

The original versions of this module are Copyright (C) 1999-2002 Marko Asplund.

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Found in path(s):

* /libio-socket-ssl-perl-2-067-orig-tar-gz/IO-Socket-SSL-2.067/lib/IO/Socket/SSL.pod

1.253 libwww-perl 6.43-1

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

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

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commands you use may be called something other than `show w' and `show
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1.254 tcp-wrappers 7.6.q-30

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NAME

CGI::Fast - CGI Interface for Fast CGI

<div>

</div>

SYNOPSIS

```
use CGI::Fast
```

```
    socket_path => '9000',
```

```
    socket_perm => 0777,
```

```
    listen_queue => 50;
```

```
use CGI qw/ :standard /;
```

```
$COUNTER = 0;
```

```
# optional, will default to STDOUT, STDERR
```

```
CGI::Fast->file_handles({
```

```
    cgi_output_file_handle => IO::Handle->new,
```

```
    cgi_error_file_handle => IO::Handle->new,
```

```
});
```

```
while ($q = CGI::Fast->new) {
    process_request($q);
}
```

DESCRIPTION

CGI::Fast is a subclass of the CGI object created by CGI.pm. It is specialized to work with the FCGI module, which greatly speeds up CGI scripts by turning them into persistently running server processes. Scripts that perform time-consuming initialization processes, such as loading large modules or opening persistent database connections, will see large performance improvements.

Note that as CGI::Fast is based on CGI.pm it is no longer advised as a way to write Perl web apps. See <https://metacpan.org/pod/CGI#CGI.pm-HAS-BEEN-REMOVED-FROM-THE-PERL-CORE> for more information about this

OTHER PIECES OF THE PUZZLE

In order to use CGI::Fast you'll need the FCGI module. See <http://www.cpan.org/> for details.

WRITING FASTCGI PERL SCRIPTS

FastCGI scripts are persistent: one or more copies of the script are started up when the server initializes, and stay around until the server exits or they die a natural death. After performing whatever one-time initialization it needs, the script enters a loop waiting for incoming connections, processing the request, and waiting some more.

A typical FastCGI script will look like this:

```
#!/perl
use CGI::Fast;
do_some_initialization();
while ($q = CGI::Fast->new) {
    process_request($q);
}
```

Each time there's a new request, CGI::Fast returns a CGI object to your loop. The rest of the time your script waits in the call to new(). When the server requests that your script be terminated, new() will return undef. You can

of course exit earlier if you choose. A new version of the script will be respawned to take its place (this may be necessary in order to avoid Perl memory leaks in long-running scripts).

CGI.pm's default CGI object mode also works. Just modify the loop this way:

```
while (CGI::Fast->new) {  
    process_request();  
}
```

Calls to `header()`, `start_form()`, etc. will all operate on the current request.

INSTALLING FASTCGI SCRIPTS

See the FastCGI developer's kit documentation for full details. On the Apache server, the following line must be added to `srm.conf`:

```
AddType application/x-httpd-fcgi .fcgi
```

FastCGI scripts must end in the extension `.fcgi`. For each script you install, you must add something like the following to `srm.conf`:

```
FastCgiServer /usr/etc/httpd/fcgi-bin/file_upload.fcgi -processes 2
```

This instructs Apache to launch two copies of `file_upload.fcgi` at startup time.

USING FASTCGI SCRIPTS AS CGI SCRIPTS

Any script that works correctly as a FastCGI script will also work correctly when installed as a vanilla CGI script. However it will not see any performance benefit.

EXTERNAL FASTCGI SERVER INVOCATION

FastCGI supports a TCP/IP transport mechanism which allows FastCGI scripts to run external to the webserver, perhaps on a remote machine. To configure the webserver to connect to an external FastCGI server, you would add the following to your `srm.conf`:

```
FastCgiExternalServer /usr/etc/httpd/fcgi-bin/file_upload.fcgi -host sputnik:8888
```

Two environment variables

affect how the `CGI::Fast` object is created,
allowing `CGI::Fast` to be used as an external FastCGI server. (See `FCGI`
documentation for `FCGI::OpenSocket` for more information.)

You can set these as ENV variables or imports in the use `CGI::Fast` statement.
If the ENV variables are set then these will be favoured so you can override
the import statements on the command line, etc.

- `FCGI\SOCKET_PATH` / `socket\_path`

The address (TCP/IP) or path (UNIX Domain) of the socket the external FastCGI
script to which bind and listen for incoming connections from the web server.

- `FCGI\SOCKET_PERM` / `socket\_perm`

Permissions for UNIX Domain socket.

- `FCGI\LISTEN_QUEUE` / `listen\_queue`

Maximum length of the queue of pending connections, defaults to 100.

For example:

```
use CGI::Fast
    socket_path => "sputnik:8888",
    listen_queue => "50"
;
```

```
use CGI qw/ :standard /;
```

```
do_some_initialization();
```

```
while ($q = CGI::Fast->new) {
    process_request($q);
}
```

Or:

```
use CGI::Fast;
```

```
use CGI qw/ :standard /;
```

```
do_some_initialization();
```

```
$ENV{FCGI_SOCKET_PATH} = "sputnik:8888";
$ENV{FCGI_LISTEN_QUEUE} = 50;
```

```
while ($q = CGI::Fast->new) {
    process_request($q);
}
```

```
}
```

Note the importance of having use CGI after use CGI::Fast as this will prevent any CGI import pragmas being overwritten by CGI::Fast. You can use CGI::Fast as a drop in replacement like so:

```
use CGI::Fast qw/ :standard /
```

FILE HANDLES

FCGI defaults to using STDOUT and STDERR as its output filehandles - this may lead to unexpected redirect of output if you migrate scripts from CGI.pm to CGI::Fast. To get around this you can use the file_handles method, which you must do ****before**** the first call to CGI::Fast->new. For example using IO::Handle:

```
CGI::Fast->file_handles({
    fcgi_output_file_handle => IO::Handle->new,
    fcgi_error_file_handle => IO::Handle->new,
});

while (CGI::Fast->new) {
    ..
}
```

Overriding STDIN using the `fcgi\_input\_file\_handle` key is also possible, however doing so is likely to break at least POST requests.

CAVEATS

I haven't tested this very much.

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Address bug reports and comments to:

<https://github.com/leejo/cgi-fast>

BUGS

This section intentionally left blank.

SEE ALSO

[CGI::Carp](https://metacpan.org/pod/CGI::Carp), [CGI](https://metacpan.org/pod/CGI)

Found in path(s):

* /libcgi-fast-perl-2-15-orig-tar-gz/CGI-Fast-2.15/README.md

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abstract: unknown

author:

- unknown

build_requires:

File::Temp: '0'

Test::More: '0'

configure_requires: {}

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150010'

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: '1.4'

name: CGI-Fast

no_index:

directory:

- t

- inc

- t

requires:

CGI: '4'

Carp: '0'

FCGI: '0.67'

if: '0'

perl: '5.008001'

resources:

bugtracker: <https://github.com/leejo/cgi-fast/issues>

homepage: <https://metacpan.org/module/CGI::Fast>

license: <http://dev.perl.org/licenses/>

repository: <https://github.com/leejo/cgi-fast>

version: '2.15'

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

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=head1 NAME

CGI::Fast - CGI Interface for Fast CGI

=for html

```
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<a href='https://coveralls.io/r/leejo/cgi-fast?branch=master'><img src='https://coveralls.io/repos/leejo/cgi-fast/badge.png?branch=master' alt='Coverage Status' /></a>
```

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$COUNTER = 0;

# optional, will default to STDOUT, STDERR
CGI::Fast->file_handles({
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```

Two environment variables affect how the C<CGI::Fast> object is created, allowing C<CGI::Fast> to be used as an external FastCGI server. (See C<FCGI> documentation for C<FCGI::OpenSocket> for more information.)

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=over

=item FCGI_SOCKET_PATH / socket_path

The address (TCP/IP) or path (UNIX Domain) of the socket the external FastCGI script to which bind and listen for incoming connections from the web server.

=item FCGI_SOCKET_PERM / socket_perm

Permissions for UNIX Domain socket.

=item FCGI_LISTEN_QUEUE / listen_queue

Maximum length of the queue of pending connections, defaults to 100.

=back

For example:

```
use CGI::Fast
    socket_path => "sputnik:8888",
    listen_queue => "50"
;

use CGI qw/ :standard /;

do_some_initialization();

while ($q = CGI::Fast->new) {
    process_request($q);
}
```

Or:

```
use CGI::Fast;
use CGI qw/ :standard /;

do_some_initialization();

$ENV{FCGI_SOCKET_PATH} = "sputnik:8888";
$ENV{FCGI_LISTEN_QUEUE} = 50;

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}
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```
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    fcgi_output_file_handle => IO::Handle->new,
    fcgi_error_file_handle => IO::Handle->new,
});
```

```
while (CGI::Fast->new) {  
    ..  
}
```

Overriding STDIN using the C<fcgi_input_file_handle>
key is also possible,
however doing so is likely to break at least POST requests.

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=head1 BUGS

This section intentionally left blank.

=head1 SEE ALSO

L<CGI::Carp>, L<CGI>

=cut

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1.256 libseccomp 2.5.1-1ubuntu1~20.04.2

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.258 iptables-persistent 1.0.14ubuntu1

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1.260 python-zipp 1.0.0-1

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1.261 kmod 27-1ubuntu2

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1.262 popt 1.16-14

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The current Debian maintainer are maximilian attems <maks@debian.org> and Michael Prokop <mika@debian.org>.

The current ubuntu release can be found at:
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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.

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=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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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>
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    </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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1.265 cryptsetup 2.2.2-3ubuntu2.4

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

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1.267 glibc 2.31-0ubuntu9.7

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1.272 arptables 1.8.4

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Upstream-Name: XZ Utils

Upstream-Contact:

Lasse Collin <lasse.collin@tukaani.org>

<https://tukaani.org/xz/lists.html>

Source:

<https://tukaani.org/xz>

<https://git.tukaani.org/xz.git>

Comment:

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To: Jonathan Nieder <jrnieder@gmail.com>

Subject: Re: XZ utils for Debian

Date: Sun, 19 Jul 2009 13:28:23 +0300

Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

.
[...]

.
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Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,

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Origin: configure.ac from XZ Utils,

visibility.m4 serial 1 (gettext-0.15),

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This package was put together by Matthias Klose <doko@debian.org>, from the following sources:

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support/man2html.c

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1.278 libsepol 3.0-1ubuntu0.1

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Here is a list of the main contributors to lm-sensors version 3.

- * Frodo Looijgaard
Original author of libsensors, sensors-detect, sensors and isadump.
- * Merlin Hughes
Original author of sensord.
- * Bob Schlaermann
Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.

* Mark M. Hoffman

Many improvements to the libsensors configuration file scanner.

* Jean Delvare

New libsensors API, and migration of sensors and sensord thereto.

Many optimizations in libsensors and sensors.

Configuration file converter.

Rewrite of sensors-detect.

Support for multiple configuration files in libsensors.

1.280 rsyslog 8.2001.0-1ubuntu1.3

1.280.1 Available under license :

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```
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it
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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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```
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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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1.283 e2fsprogs 1.45.5-2ubuntu1.1

1.283.1 Available under license :

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

<http://sourceforge.net/projects/e2fsprogs>

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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On Debian systems, the complete text of the GNU Lesser (Library) General Public License can be found in /usr/share/common-licenses/LGPL-2. 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)
```

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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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- + Copyright (C) Andrew Tridgell 1999-2005
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Theodore Ts'o
23-June-2007

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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```
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#+STARTUP: showall
```

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.286 libhttp-daemon-perl 6.06-1ubuntu0.1

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1.287 libxslt 1.1.34-4ubuntu0.20.04.1

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1.288 packaging 16.8

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1.289 pcre 10.34-7ubuntu0.1

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1.290 pcre 8.39-12ubuntu0.1

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1.291 audit 2.8.5-2ubuntu6

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

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

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

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1.294 zlib 1.2.11.dfsg-2ubuntu1.5

1.294.1 Available under license :

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

```
/* gun.c -- simple gunzip to give an example of the use of inflateBack()
 * Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 * Version 1.7 12 August 2012 Mark Adler */
```

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c
No license file was found, but licenses were detected in source scan.

```
/* gzwrite.c -- zlib functions for writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c
No license file was found, but licenses were detected in source scan.

```
/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib_how.html
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```
/* unzip.c -- IO for uncompress .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )
```

Copyright (C) 1998-2010 Gilles Vollant (minizip) (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications of Unzip for Zip64
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip
Copyright (C) 2009-2010 Mathias Svensson (<http://result42.com>)

For more info read MiniZip_info.txt

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.
Code woven in by Terry Thorsen 1/2003.

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See the accompanying
file LICENSE, version 2000-Apr-09 or later
(the contents of which are also included in zip.h) for terms of use.
If, for some reason, all these files are missing, the Info-ZIP license
also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the
non-echoing password parts) were originally written in Europe. The
whole source package can be freely distributed, including from the USA.
(Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from
Roger Schlafly, described by Phil Katz in the file appnote.txt. This
file (appnote.txt) is distributed with the PKZIP program (even in the
version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is
now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G
should only read the compressed/uncompressed size from the Zip64 format if
the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method
BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c

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Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2

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Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3

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/* inflate.c -- zlib decompression

* Copyright (C) 1995-2016 Mark Adler

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*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c

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

/* inffback.c -- inflate using a call-back interface

* Copyright (C) 1995-2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffback.c

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/* gzlog.h

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version 2.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h

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

/* uncompr.c -- decompress a memory buffer

* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c

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

/* inflate.h -- internal inflate state definition

* Copyright (C) 1995-2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

*/

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

/* zip.h -- IO on .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - (<http://www.winimage.com/zLibDll/minizip.html>)

Copyright (C) 1998-2010 Gilles Vollant (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications for Zip64 support
Copyright (C) 2009-2010 Mathias Svensson (<http://result42.com>)

For more info read MiniZip_info.txt

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Changes

See header of zip.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h

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

/*

* gzlog.c

* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved

* For conditions of distribution and use, see copyright notice in gzlog.h

* version 2.2, 14 Aug 2012

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c

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

/* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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*/

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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c

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ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact zlib@gzip.org). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minigzip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.11 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory `contrib/`.

zlib is available in Java using the `java.util.zip` package, documented at

<http://java.sun.com/developer/technicalArticles/Programming/compression/>

.

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/> .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html> .

zlib is built into tcl: <http://wiki.tcl.tk/4610> .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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jloup@gzip.org madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate *not* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README

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

/* fitblk.c: example of fitting compressed output to a specified size

Not copyrighted -- provided to the public domain

Version 1.1 25 November 2004 Mark Adler */

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c

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

/* gzread.c -- zlib functions for reading gzip files

* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c

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

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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jloup@gzip.org madler@alumni.caltech.edu

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

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h

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

/* inftrees.h -- header to use inftrees.c

* Copyright (C) 1995-2005, 2010 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h

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```
/* deflate.c -- compress data using the deflation algorithm
* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c
```

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

```
/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h
```

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

```
/* zconf.h -- configuration of the zlib compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
```

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
```

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein
```

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

```
/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
```

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

```
/* gzlib.c -- zlib functions common to reading and writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c
```

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

```
/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c
```

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

```
/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infrees.c
```

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

```
/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
```

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

```
/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c
```

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

```
/*
Additional tools for Minizip
Code: Xavier Roche '2004
License: Same as ZLIB (www.gzip.org)
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c
```

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

```
/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c

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

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (<http://www.winimage.com/zLibDll/minizip.html>)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.
All possible work was done for compatibility.

Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal (<http://www.gdal.org/>)

That was used as a starting point. And after that ZIP64 support was added to zip.c
some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1

* Added ZIP64 support for unzip (by Even Rouault)
* Added ZIP64 support for zip (by Mathias Svensson)
* Reverted some changed that Even Rouault did.
* Bunch of patches received from Gilles Vollant that he received for MiniZip from various users.
* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
* Added BZIP Compress method for zip
* Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip

Mathias Svensson - ZIP64 zip support

Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout <http://result42.com/projects/ZipFileLayout>

Command line tool for Windows that shows the layout and information of the headers in a zip archive.

Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note <http://www.pkware.com/documents/casestudies/APPNOTE.TXT>

Zip File specification

Notes.

* To be able to use BZip compression method in

zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64_info.txt

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

/* compress.c -- compress a memory buffer

* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c

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

/* gzclose.c -- zlib gzclose() function

* Copyright (C) 2004, 2010 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c

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

/* unzip.h -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - (<http://www.winimage.com/zLibDll/minizip.html>)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson (<http://result42.com>)

For more info read MiniZip_info.txt

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3. This notice may not be removed or altered from any source distribution.

Changes

See header of unzip64.c

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h

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

/* zran.c -- example of zlib/gzip stream indexing and random access

* Copyright (C) 2005, 2012 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

Version 1.1 29 Sep 2012 Mark Adler */

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c

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

/* inffast.c -- fast decoding

* Copyright (C) 1995-2017 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c

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

/* crc32.c -- compute the CRC-32 of a data stream

* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*

* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster

* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing

* tables for updating the shift register in one step with three exclusive-ors

* instead of four steps with four exclusive-ors. This results in about a

* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c

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

/* adler32.c -- compute the Adler-32 checksum of a data stream

* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c

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

/* zutil.h -- internal interface and configuration of the compression library

* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h

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

/* gzguts.h -- zlib internal header definitions for gz* operations

* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h

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

/* zpipe.c: example of proper use of zlib's inflate() and deflate()

Not copyrighted -- provided to the public domain

Version 1.4 11 December 2005 Mark Adler */

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c

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

/* gzappend -- command to append to a gzip file

Copyright (C) 2003, 2012 Mark Adler, all rights reserved

version 1.2, 11 Oct 2012

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3. This notice may not be removed or altered from any source distribution.

Mark Adler madler@alumni.caltech.edu

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c

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

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

<http://zlib.net/> which may have more recent information.

The latest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at <http://zlib.net/>.

3. Where can I get a Visual Basic interface to zlib?

See

* <http://marknelson.us/1997/01/01/zlib-engine/>

* win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual

Basic, check that this parameter is passed by reference

("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

Before making the call, make sure that `avail_in` and `avail_out` are not zero. When setting the parameter `flush` equal to `Z_FINISH`, also make sure that `avail_out` is big enough to allow processing all pending input. Note that a `Z_BUF_ERROR` is not fatal--another call to `deflate()` or `inflate()` can be made with more input or output space. A `Z_BUF_ERROR` may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when `strm.avail_out` returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in `zlib.h`. Examples of zlib usage are in the files `test/example.c` and `test/minigzip.c`, with more in `examples/`.

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at zlib@gzip.org. Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files `libz.*` in `/usr/lib`, `/usr/local/lib` or `/usr/X11R6/lib`. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the `contrib/delphi` directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory `contrib/minizip` in the zlib distribution.

12.

Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h`.

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16.

Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdflib.com/>. To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/>.

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See

<http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The `gz*` functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using `deflateInit2()`. You can also request that inflate decode the gzip format using `inflateInit2()`. Read `zlib.h` for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's `gz*` functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's `*Init*` functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in `zlib.h`.

23. Is zlib under the GNU license?

No. Please read the license in `zlib.h`.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the `ZLIB_VERSION` and `ZLIB_VERNUM` #defines in `zlib.h`. In particular, the final version number needs to be changed to "f", and an identification string should be appended to `ZLIB_VERSION`. Version numbers x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in `zlib.h` you should change `ZLIB_VERNUM` to 0x123f, and `ZLIB_VERSION` to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in `deflate.c` and `inftrees.c`.

For altered source distributions, you should also note the origin and nature of the changes in `zlib.h`, as well as in `ChangeLog` and `README`, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with `zlib.h` and `zconf.h` is also a source distribution, and so you should change `ZLIB_VERSION` and `ZLIB_VERNUM` and note the origin and nature of the changes in `zlib.h` as you would for a full source distribution.

25.

Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's `contrib/blast` directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use `Z_FULL_FLUSH`, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use `Z_FULL_FLUSH` too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for

random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work
with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total_in and strm.total_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output

will not exceed 8K. On the other hand, if zlib is compiled to use `snprintf()` or `vsprintf()`, which should normally be the case, then there is no vulnerability. The `./configure` script will display warnings if an insecure variation of `sprintf()` will be used by `gzprintf()`. Also the `zlibCompileFlags()` function will return information on what variant of `sprintf()` is used by `gzprintf()`.

If you don't have `snprintf()` or `vsprintf()` and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the `java.util.zip` package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: <http://zlib.net/>.

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses `malloc()` by default for allocations, whereas earlier versions used `calloc()`, which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the `comp.compression` FAQ for pointers to various

formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use GnuPG, <http://www.gnupg.org/>, which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.

Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

1.295 d-bus 1.12.16-2ubuntu2.3

1.295.1 Available under license :

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1.298 libjson-perl 4.02000-2

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NAME

JSON - JSON (JavaScript Object Notation) encoder/decoder

SYNOPSIS

```
use JSON; # imports encode_json, decode_json, to_json and from_json.
```

```
# simple and fast interfaces (expect/generate UTF-8)
```

```
$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;  
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;
```

```
# OO-interface
```

```
$json = JSON->new->allow_nonref;
```

```
$json_text = $json->encode( $perl_scalar );  
$perl_scalar = $json->decode( $json_text );
```

```
$pretty_printed = $json->pretty->encode( $perl_scalar ); # pretty-printing
```

VERSION

2.93

DESCRIPTION

This module is a thin wrapper for JSON::XS-compatible modules with a few additional features. All the backend modules convert a Perl data structure to a JSON text as of RFC4627 (which we know is obsolete but we still stick to; see below for an option to support part of RFC7159) and vice versa. This module uses JSON::XS by default, and when JSON::XS is not available, this module falls back on JSON::PP, which is in the Perl core since 5.14. If JSON::PP is not available either, this module then falls back on

JSON::backportPP (which is actually JSON::PP in a different .pm file) bundled in the same distribution as this module. You can also explicitly specify to use Cpanel::JSON::XS, a fork of JSON::XS by Reini Urban.

All these backend modules have slight incompatibilities between them, including extra features that other modules don't support, but as long as you use only common features (most important ones are described below), migration from backend to backend should be reasonably easy. For details, see each backend module you use.

CHOOSING BACKEND

This module respects an environmental variable called "PERL_JSON_BACKEND" when it decides a backend module to use. If this environmental variable is not set, it tries to load JSON::XS, and if JSON::XS is not available, it falls back on JSON::PP, and then JSON::backportPP if JSON::PP is not available either.

If you always don't want it to fall back on pure perl modules, set the variable like this ("export" may be "setenv", "set" and the likes, depending on your environment):

```
> export PERL_JSON_BACKEND=JSON::XS
```

If you prefer Cpanel::JSON::XS to JSON::XS, then:

```
> export PERL_JSON_BACKEND=Cpanel::JSON::XS,JSON::XS,JSON::PP
```

You may also want to set this variable at the top of your test files, in order not to be bothered with incompatibilities between backends (you need to wrap this in "BEGIN", and set before actually "use"-ing JSON module, as it decides its backend as soon as it's loaded):

```
BEGIN { $ENV{PERL_JSON_BACKEND}='JSON::backportPP'; }  
use JSON;
```

USING OPTIONAL FEATURES

There are a few options you can set when you "use" this module:

-support_by_pp

```
BEGIN { $ENV{PERL_JSON_BACKEND} = 'JSON::XS' }
```

```
use JSON -support_by_pp;
```

```
my $json = JSON->new;  
# escape_slash is for JSON::PP only.  
$json->allow_nonref->escape_slash->encode("/");
```

With this option, this module loads its pure perl backend along with its XS backend (if available), and lets the XS backend to watch if you set a flag only JSON::PP supports. When you do, the internal JSON::XS object is replaced with a newly created JSON::PP object with the setting copied from the XS object, so that you can use JSON::PP flags (and its slower "decode"/"encode" methods) from then on. In other words, this is not something that allows you to hook JSON::XS to change its behavior while keeping its speed. JSON::XS and JSON::PP objects are quite different (JSON::XS object is a blessed scalar reference, while JSON::PP object is a blessed hash reference), and can't share their internals.

To avoid needless overhead (by copying settings), you are advised not to use this option and just to use JSON::PP explicitly when you need JSON::PP features.

```
-convert_blessed_universally  
use JSON -convert_blessed_universally;
```

```
my $json = JSON->new->allow_nonref->convert_blessed;  
my $object = bless {foo => 'bar'}, 'Foo';  
$json->encode($object); # => {"foo":"bar"}
```

JSON::XS-compatible backend modules don't encode blessed objects by default (except for their boolean values, which are typically blessed JSON::PP::Boolean objects). If you need to encode a data structure that may contain objects, you usually need to look into the structure and replace objects with alternative non-blessed values, or enable "convert_blessed" and provide a "TO_JSON" method for each object's (base) class that may be found in the structure, in order to let the methods replace the objects with whatever scalar values the methods return.

If you need to serialise data structures that may contain arbitrary objects, it's probably better to use other serialisers (such as Sereal or Storable for example), but if you do want to use this module for that purpose, "-convert_blessed_universally" option may help, which tweaks "encode" method of the backend to install "UNIVERSAL::TO_JSON" method (locally) before encoding, so that all the objects that don't have their own "TO_JSON" method can fall back on the

method in the "UNIVERSAL" namespace. Note that you still need to enable "convert_blessed" flag to actually encode objects in a data structure, and "UNIVERSAL::TO_JSON" method installed by this option only converts blessed hash/array references into their unblessed clone (including private keys/values that are not supposed to be exposed). Other blessed references will be converted into null.

This feature is experimental and may be removed in the future.

-no_export

When you don't want to import functional interfaces from a module, you usually supply "()" to its "use" statement.

```
use JSON (); # no functional interfaces
```

If you don't want to import functional interfaces, but you also want to use any of the above options, add "-no_export" to the option list.

```
# no functional interfaces, while JSON::PP support is enabled.
use JSON -support_by_pp, -no_export;
```

FUNCTIONAL INTERFACE

This section is taken from JSON::XS. "encode_json" and "decode_json" are exported by default.

This module also exports "to_json" and "from_json" for backward compatibility. These are slower, and may expect/generate different stuff from what "encode_json" and "decode_json" do, depending on their options. It's better just to use Object-Oriented interfaces than using these two functions.

encode_json

```
$json_text = encode_json $perl_scalar
```

Converts the given Perl data structure to a UTF-8 encoded, binary string (that is, the string contains octets only). Croaks on error.

This function call is functionally identical to:

```
$json_text = JSON->new->utf8->encode($perl_scalar)
```

Except being faster.

decode_json

```
$perl_scalar = decode_json $json_text
```

The opposite of "encode_json": expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference. Croaks on error.

This function call is functionally identical to:

```
$perl_scalar = JSON->new->utf8->decode($json_text)
```

Except being faster.

to_json

```
$json_text = to_json($perl_scalar[, $optional_hashref])
```

Converts the given Perl data structure to a Unicode string by default. Croaks on error.

Basically, this function call is functionally identical to:

```
$json_text = JSON->new->encode($perl_scalar)
```

Except being slower.

You can pass an optional hash reference to modify its behavior, but that may change what "to_json" expects/generates (see "ENCODING/CODESET FLAG NOTES" for details).

```
$json_text = to_json($perl_scalar, {utf8 => 1, pretty => 1})  
# => JSON->new->utf8(1)->pretty(1)->encode($perl_scalar)
```

from_json

```
$perl_scalar = from_json($json_text[, $optional_hashref])
```

The opposite of "to_json": expects a Unicode string and tries to parse it, returning the resulting reference. Croaks on error.

Basically, this function call is functionally identical to:

```
$perl_scalar = JSON->new->decode($json_text)
```

You can pass an optional hash reference to modify its behavior, but that may change what "from_json" expects/generates (see "ENCODING/CODESET FLAG NOTES" for details).

```
$perl_scalar = from_json($json_text, {utf8 => 1})
```

```
# => JSON->new->utf8(1)->decode($json_text)
```

JSON::is_bool

```
$is_boolean = JSON::is_bool($scalar)
```

Returns true if the passed scalar represents either JSON::true or JSON::false, two constants that act like 1 and 0 respectively and are also used to represent JSON "true" and "false" in Perl strings.

See MAPPING, below, for more information on how JSON values are mapped to Perl.

COMMON OBJECT-ORIENTED INTERFACE

This section is also taken from JSON::XS.

The object oriented interface lets you configure your own encoding or decoding style, within the limits of supported formats.

new

```
$json = JSON->new
```

Creates a new JSON::XS-compatible backend object that can be used to de/encode JSON strings. All boolean flags described below are by default *disabled*.

The mutators for flags all return the backend object again and thus calls can be chained:

```
my $json = JSON->new->utf8->space_after->encode({a => [1,2]})  
=> {"a": [1, 2]}
```

ascii

```
$json = $json->ascii([$enable])
```

```
$enabled = $json->get_ascii
```

If \$enable is true (or missing), then the "encode" method will not generate characters outside the code range 0..127 (which is ASCII). Any Unicode characters outside that range will be escaped using either a single \uXXXX (BMP characters) or a double \uHHHH\uLLLLL escape sequence, as per RFC4627. The resulting encoded JSON text can be treated as a native Unicode string, an ascii-encoded, latin1-encoded or UTF-8 encoded string, or any other superset of ASCII.

If \$enable is false, then the "encode" method will not escape Unicode characters unless required by the JSON syntax or other flags. This results in a faster and more compact format.

See also the section **ENCODING/CODESET FLAG NOTES** later in this document.

The main use for this flag is to produce JSON texts that can be transmitted over a 7-bit channel, as the encoded JSON texts will not contain any 8 bit characters.

```
JSON->new->ascii(1)->encode([chr 0x10401])
=> ["\ud801\udc01"]
```

latin1

```
$json = $json->latin1([$enable])
```

```
$enabled = $json->get_latin1
```

If \$enable is true (or missing), then the "encode" method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range 0..255. The resulting string can be treated as a latin1-encoded JSON text or a native Unicode string. The "decode" method will not be affected in any way by this flag, as "decode" by default expects Unicode, which is a strict superset of latin1.

If \$enable is false, then the "encode" method will not escape Unicode characters unless required by the JSON syntax or other flags.

See also the section **ENCODING/CODESET FLAG NOTES** later in this document.

The main use for this flag is efficiently encoding binary data as JSON text, as most octets will not be escaped, resulting in a smaller encoded size. The disadvantage is that the resulting JSON text is encoded in latin1 (and must correctly be treated as such when storing and transferring), a rare encoding for JSON. It is therefore most useful when you want to store data structures known to contain binary data efficiently in files or databases, not when talking to other JSON encoders/decoders.

```
JSON->new->latin1->encode(["\x{89}\x{abc}"])
=> ["\x{89}\u0abc"] # (perl syntax, U+abc escaped, U+89 not)
```

utf8

```
$json = $json->utf8([$enable])
```

```
$enabled = $json->get_utf8
```

If `$enable` is true (or missing), then the "encode" method will encode the JSON result into UTF-8, as required by many protocols, while the "decode" method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range 0..255, they are thus useful for bitwise/binary I/O. In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If `$enable` is false, then the "encode" method will return the JSON string as a (non-encoded) Unicode string, while "decode" expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

See also the section **ENCODING/CODESET FLAG NOTES** later in this document.

Example, output UTF-16BE-encoded JSON:

```
use Encode;
$jsoncontext = encode "UTF-16BE", $json->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```
use Encode;
$object = $json->new->decode (decode "UTF-32LE", $jsoncontext);
```

```
pretty
$json = $json->pretty([$enable])
```

This enables (or disables) all of the "indent", "space_before" and "space_after" (and in the future possibly more) flags in one call to generate the most readable (or most compact) form possible.

```
indent
$json = $json->indent([$enable])
```

```
$enabled = $json->get_indent
```

If `$enable` is true (or missing), then the "encode" method will use a multiline format as output, putting every array member or object/hash key-value pair into its own line, indenting them properly.

If \$enable is false, no newlines or indenting will be produced, and the resulting JSON text is guaranteed not to contain any "newlines".

This setting has no effect when decoding JSON texts.

space_before

```
$json = $json->space_before([$enable])
```

```
$enabled = $json->get_space_before
```

If \$enable is true (or missing), then the "encode" method will add an extra optional space before the ":" separating keys from values in JSON objects.

If \$enable is false, then the "encode" method will not add any extra space at those places.

This setting has no effect when decoding JSON texts. You will also most likely combine this setting with "space_after".

Example, space_before enabled, space_after and indent disabled:

```
{"key" : "value"}
```

space_after

```
$json = $json->space_after([$enable])
```

```
$enabled = $json->get_space_after
```

If \$enable is true (or missing), then the "encode" method will add an extra optional space after the ":" separating keys from values in JSON objects and extra whitespace after the "," separating key-value pairs and array members.

If

\$enable is false, then the "encode" method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

```
{"key": "value"}
```

relaxed

```
$json = $json->relaxed([$enable])
```

```
$enable = $json->get_relaxed
```

If \$enable is true (or missing), then "decode" will accept some extensions to normal JSON syntax (see below). "encode" will not be affected in anyway. *Be aware that this option makes you accept invalid JSON texts as if they were valid!*. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If \$enable is false (the default), then "decode" will only accept valid JSON texts.

Currently accepted extensions are:

- * list items can have an end-comma

JSON *separates* array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

```
[
  1,
  2, <- this comma not normally allowed
]
{
  "k1": "v1",
  "k2": "v2", <- this comma not normally allowed
}
```

- * shell-style '#'-comments

Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

```
[
  1, # this comment not allowed in JSON
  # neither this one...
]
```

canonical

```
$json = $json->canonical([$enable])
```

```
$enabled = $json->get_canonical
```

If \$enable is true (or missing), then the "encode" method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If \$enable is false, then the "encode" method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script, and can change even within the same run from 5.18 onwards).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

This setting has currently no effect on tied hashes.

allow_nonref

```
$json = $json->allow_nonref([$enable])
```

```
$enabled = $json->get_allow_nonref
```

If \$enable is true (or missing), then the "encode" method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, "decode" will accept those JSON values instead of croaking.

If \$enable is false, then the "encode" method will croak if it isn't passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, "decode" will croak if given something that is not a JSON object or array.

Example, encode a Perl scalar as JSON value with enabled "allow_nonref", resulting in an invalid JSON text:

```
JSON->new->allow_nonref->encode ("Hello, World!")  
=> "Hello, World!"
```

allow_unknown

```
$json = $json->allow_unknown([$enable])
```

```
$enabled = $json->get_allow_unknown
```


If `$enable` is true (or missing), then "encode" will **not** throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON "null" value. Note that blessed objects are not included here and are handled separately by `<allow_nonref>`.

If `$enable` is false (the default), then "encode" will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect "decode" in any way, and it is recommended to leave it off unless you know your communications partner.

`allow_blessed`

```
$json = $json->allow_blessed([$enable])
```

```
$enabled = $json->get_allow_blessed
```

See "OBJECT SERIALISATION" for details.

If `$enable` is true (or missing), then the "encode" method will not barf when it encounters a blessed reference that it cannot convert otherwise. Instead, a JSON "null" value is encoded instead of the object.

If `$enable` is false (the default), then "encode" will throw an exception when it encounters a blessed object that it cannot convert otherwise.

This setting has no effect on "decode".

`convert_blessed`

```
$json = $json->convert_blessed([$enable])
```

```
$enabled = $json->get_convert_blessed
```

See "OBJECT SERIALISATION" for details.

If `$enable` is true (or missing), then "encode", upon encountering a blessed object, will check for the availability of the "TO_JSON" method on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object.

The "TO_JSON" method may safely call die if it wants. If "TO_JSON"

returns other blessed objects, those will be handled in the same way. "TO_JSON" must take care of not causing an endless recursion cycle (== crash) in this case. The name of "TO_JSON" was chosen because other methods called by the Perl core (== not by the user of the object) are usually in upper case letters and to avoid collisions with any "to_json" function or method.

If \$enable is false (the default), then "encode" will not consider this type of conversion.

This setting has no effect on "decode".

filter_json_object

```
$json = $json->filter_json_object([$coderef])
```

When \$coderef is specified, it will be called from "decode" each time it decodes a JSON object. The only argument is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (i.e. a copy of that scalar to avoid aliasing) is inserted into the deserialised data structure. If it returns an empty list (NOTE: **not** "undef", which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.

When \$coderef is omitted or undefined, any existing callback will be removed and "decode" will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

```
my $js = JSON->new->filter_json_object (sub { 5 });
# returns [5]
$js->decode ('[{}]'); # the given subroutine takes a hash reference.
# throw an exception because allow_nonref is not enabled
# so a lone 5 is not allowed.
$js->decode ('{"a":1, "b":2}');
```

filter_json_single_key_object

```
$json = $json->filter_json_single_key_object($key [=> $coderef])
```

Works remotely similar to "filter_json_object", but is only called for JSON objects having a single key named \$key.

This \$coderef is called before the one specified via "filter_json_object", if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted

into the data structure. If it returns nothing (not even "undef" but the empty list), the callback from "filter_json_object" will be called next, as if no single-key callback were specified.

If \$coderef is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.

As this callback gets called less often than the "filter_json_object" one, decoding speed will not usually suffer as much. Therefore, single-key objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are "__class_whatever__", or "\$__dollars_are_rarely_used__\$" or "}ugly_brace_placement", or even things like "__class_md5sum(classname)__", to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form "{ "__widget__" => <id> }" into the corresponding \$WIDGET{<id>} object:

```
# return whatever is in $WIDGET{5}:
JSON
->new
->filter_json_single_key_object (__widget__ => sub {
    $WIDGET{ $_[0] }
})
->decode ('{"__widget__": 5')

# this can be used with a TO_JSON method in some "widget" class
# for serialisation to json:
sub WidgetBase::TO_JSON {
    my ($self) = @_;

    unless ($self->{id}) {
        $self->{id} = ..get..some..id..;
        $WIDGET{$self->{id}} = $self;
    }

    { __widget__ => $self->{id} }
}

max_depth
$json = $json->max_depth([$maximum_nesting_depth])
```

```
$max_depth = $json->get_max_depth
```

Sets the maximum nesting level (default 512) accepted while encoding or decoding. If a higher nesting level is detected in JSON text or a Perl data structure, then the encoder and decoder will stop and croak at that point.

Nesting level is defined by number of hash- or arrayrefs that the encoder needs to traverse to reach a given point or the number of "{" or "[" characters without their matching closing parenthesis crossed to reach a given character in a string.

Setting the maximum depth to one disallows any nesting, so that ensures that the object is only a single hash/object or array.

If no argument is given, the highest possible setting will be used, which is rarely useful.

max_size

```
$json = $json->max_size([$maximum_string_size])
```

```
$max_size = $json->get_max_size
```

Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is 0, meaning no limit.

When "decode" is called on a string that is longer than this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on "encode" (yet).

If no argument is given, the limit check will be deactivated (same as when 0 is specified).

encode

```
$json_text = $json->encode($perl_scalar)
```

Converts the given Perl value or data structure to its JSON representation. Croaks on error.

decode

```
$perl_scalar = $json->decode($json_text)
```

The opposite of "encode": expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

decode_prefix

```
($perl_scalar, $characters) = $json->decode_prefix($json_text)
```

This works like the "decode" method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

This is useful if your JSON texts are not delimited by an outer protocol and you need to know where the JSON text ends.

```
JSON->new->decode_prefix("[1] the tail")  
=> ([1], 3)
```

ADDITIONAL METHODS

The following methods are for this module only.

backend

```
$backend = $json->backend
```

Since 2.92, "backend" method returns an abstract backend module used currently, which should be JSON::Backend::XS (which inherits JSON::XS or Cpanel::JSON::XS), or JSON::Backend::PP (which inherits JSON::PP), not to monkey-patch the actual backend module globally.

If you need to know what is used actually, use "isa", instead of string comparison.

is_xs

```
$boolean = $json->is_xs
```

Returns true if the backend inherits JSON::XS or Cpanel::JSON::XS.

is_pp

```
$boolean = $json->is_pp
```

Returns true if the backend inherits JSON::PP.

property

```
$settings = $json->property()
```

Returns a reference to a hash that holds all the common flag settings.

```
$json = $json->property('utf8' => 1)  
$value  
= $json->property('utf8') # 1
```

You can use this to get/set a value of a particular flag.

INCREMENTAL PARSING

This section is also taken from JSON::XS.

In some cases, there is the need for incremental parsing of JSON texts. While this module always has to keep both JSON text and resulting Perl data structure in memory at one time, it does allow you to parse a JSON stream incrementally. It does so by accumulating text until it has a full JSON object, which it then can decode. This process is similar to using "decode_prefix" to see if a full JSON object is available, but is much more efficient (and can be implemented with a minimum of method calls).

This module will only attempt to parse the JSON text once it is sure it has enough text to get a decisive result, using a very simple but truly incremental parser. This means that it sometimes won't stop as early as the full parser, for example, it doesn't detect mismatched parentheses. The only thing it guarantees is that it starts decoding as soon as a syntactically valid JSON text has been seen. This means you need to set resource limits (e.g. "max_size") to ensure the parser will stop parsing in the presence of syntax errors.

The following methods implement this incremental parser.

`incr_parse`

```
$json->incr_parse( [$string] ) # void context
```

```
$obj_or_undef = $json->incr_parse( [$string] ) # scalar context
```

```
@obj_or_empty = $json->incr_parse( [$string] ) # list context
```

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If `$string` is given, then this string is appended to the already existing JSON fragment stored in the `$json` object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly **one** JSON object. If that is successful, it will

return this object, otherwise it will return "undef". If there is a parse error, this method will croak just as "decode" would do (one can then use "incr_skip" to skip the erroneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators (other than whitespace) between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return them.

```
my @objs = JSON->new->incr_parse ("[5][7][1,2]");
```

incr_text

```
$lvalue_string = $json->incr_text
```

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This **only** works when a preceding call to "incr_parse" in **scalar context** successfully returned an object. Under all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it **will** fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

That means you can only use this function to look at or manipulate text before or after complete JSON objects, not while the parser is in the middle of parsing a JSON object.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

incr_skip

```
$json->incr_skip
```

This will reset the state of the incremental parser and will remove the parsed text from the input buffer so far.

This is

useful after "incr_parse" died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

The difference to "incr_reset" is that only text until the parse error occurred is removed.

```
incr_reset
$json->incr_reset
```

This completely resets the incremental parser, that is, after this call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to ignore any trailing data, which means you have to reset the parser after each successful decode.

MAPPING

Most of this section is also taken from JSON::XS.

This section describes how the backend modules map Perl values to JSON values and vice versa. These mappings are designed to "do the right thing" in most circumstances automatically, preserving round-tripping characteristics (what you put in comes out as something equivalent).

For the more enlightened:
note that in the following descriptions,
lowercase **perl** refers to the Perl interpreter, while uppercase **Perl** refers to the abstract Perl language itself.

JSON -> PERL

object

A JSON object becomes a reference to a hash in Perl. No ordering of object keys is preserved (JSON does not preserve object key ordering itself).

array

A JSON array becomes a reference to an array in Perl.

string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

number

A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and

might represent more values exactly
than floating point
numbers.

If the number consists of digits only, this module will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, this module only guarantees precision up to but
not including the least
significant bit.

true, false

These JSON atoms become "JSON::true" and "JSON::false", respectively. They are overloaded to act almost exactly like the numbers 1 and 0. You can check whether a scalar is a JSON boolean by using the "JSON::is_bool" function.

null

A JSON null atom becomes "undef" in Perl.

shell-style comments ("# *text*")

As a nonstandard extension to the JSON syntax that is enabled by the "relaxed" setting, shell-style comments are allowed. They can start anywhere outside strings and go till the end of the line.

PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

hash references

Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will

usually be encoded in a pseudo-random order.

This module can

optionally sort the hash keys (determined by the `*canonical*` flag), so the same data structure will serialise to the same JSON text (given same settings and version of the same backend), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

array references

Perl array references become JSON arrays.

other references

Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers 0 and 1, which get turned into "false" and "true" atoms in JSON. You can also use "JSON::false" and "JSON::true" to improve readability.

```
encode_json [\0,JSON::true]    # yields [false,true]
```

JSON::true, JSON::false, JSON::null

These special values become JSON true and JSON false values, respectively. You can also use "\1" and "\0" directly

if you
want.

blessed objects

Blessed objects are not directly representable in JSON, but "JSON::XS" allows various ways of handling objects. See "OBJECT SERIALISATION", below, for details.

simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: this module will encode undefined scalars as JSON "null" values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

```
# dump as number
encode_json [2]          # yields [2]
encode_json [-3.0e17]     # yields [-3e+17]
my $value = 5; encode_json [$value] # yields [5]

# used as string, so dump as string
print $value;
encode_json [$value]      # yields ["5"]
```

```
# undef becomes null
encode_json [undef]      # yields [null]
```

You can force
the type to be a string by stringifying it:

```
my $x = 3.1; # some variable containing a number
"$x";      # stringified
$x .= "";  # another, more awkward way to stringify
print $x;  # perl does it for you, too, quite often
```

You can force the type to be a number by numifying it:

```
my $x = "3"; # some variable containing a string
$x += 0;     # numify it, ensuring it will be dumped as a number
$x *= 1;     # same thing, the choice is yours.
```

You can not currently force the type in other, less obscure,
ways. Tell me if you need this capability (but don't forget to
explain why it's needed :).

Note that numerical precision has the same meaning as under
Perl (so binary to decimal conversion follows the same rules
as in Perl, which can differ to other languages). Also, your
perl interpreter might expose extensions to the floating point
numbers of your platform, such as
infinities or NaN's - these
cannot be represented in JSON, and it is an error to pass
those in.

OBJECT SERIALISATION

As for Perl objects, this module only supports a pure JSON
representation (without the ability to deserialise the object
automatically again).

SERIALISATION

What happens when this module encounters a Perl object depends on
the "allow_blessed" and "convert_blessed" settings, which are used
in this order:

1. "convert_blessed" is enabled and the object has a "TO_JSON"
method.

In this case, the "TO_JSON" method of the object is invoked in
scalar context. It must return a single scalar that can be
directly encoded into JSON. This scalar replaces the object in
the JSON text.

For example, the following "TO_JSON" method will convert all

URI objects to JSON strings when serialised. The fact that these values originally were URI objects is lost.

```
sub URI::TO_JSON {  
    my ($uri) = @_;  
  
    $uri->as_string  
}
```

2. "allow_blessed" is enabled.

The object will be serialised as a JSON null value.

3. none of the above

If none of the settings are enabled or the respective methods are missing, this module throws an exception.

ENCODING/CODESET FLAG NOTES

This section is taken from JSON::XS.

The interested reader might have seen a number of flags that signify encodings or codesets - "utf8", "latin1" and "ascii". There seems to be some confusion on what these do, so here is a short comparison:

"utf8" controls whether the JSON text created by "encode" (and expected by "decode") is UTF-8 encoded or not, while "latin1" and "ascii" only control whether "encode" escapes character values outside their respective codeset range. Neither of these flags conflict with each other, although some combinations make less sense than others.

Care has been taken to make all flags symmetrical with respect to "encode" and "decode", that is, texts encoded with any combination of these flag values will be correctly decoded when the same flags are used - in general, if you use different flag settings while encoding vs. when decoding you likely have a bug somewhere.

Below comes a verbose discussion of these flags. Note that a "codeset" is simply an abstract set of character-codepoint pairs, while an encoding takes those codepoint numbers and *encodes* them, in our case into octets. Unicode is (among other things) a codeset, UTF-8 is an encoding, and ISO-8859-1 (= latin 1) and ASCII are both codesets *and* encodings at the same time, which can be confusing.

"utf8" flag disabled

When "utf8" is disabled (the default), then "encode"/"decode"

generate and expect Unicode strings, that is, characters with high ordinal Unicode values (> 255) will be encoded as such characters, and likewise such characters are decoded as-is, no changes to them will be done, except "(re-)interpreting" them

as Unicode codepoints or Unicode characters, respectively (to Perl, these are the same thing in strings unless you do funny/weird/dumb stuff).

This is useful when you want to do the encoding yourself (e.g. when you want to have UTF-16 encoded JSON texts) or when some other layer does the encoding for you (for example, when printing to a terminal using a filehandle that transparently encodes to UTF-8 you certainly do NOT want to UTF-8 encode your data first and have Perl encode it another time).

"utf8" flag enabled

If the "utf8"-flag is enabled, "encode"/"decode" will encode all characters using the corresponding UTF-8 multi-byte sequence, and will expect your input strings to be encoded as UTF-8, that is, no "character" of the input string must have any value > 255, as UTF-8 does not allow that.

The "utf8" flag therefore switches between two modes: disabled means you will get a Unicode string in Perl, enabled means you get an UTF-8 encoded octet/binary string in Perl.

"latin1" or "ascii" flags enabled

With "latin1" (or "ascii") enabled, "encode" will escape characters with ordinal values > 255 (> 127 with "ascii") and encode the remaining characters as specified by the "utf8" flag.

If "utf8" is disabled, then the result is also correctly encoded in those character sets (as both are proper subsets of Unicode, meaning that a Unicode string with all character values < 256 is the same thing as a ISO-8859-1 string, and a Unicode string with all character values < 128 is the same thing as an ASCII string in Perl).

If "utf8" is enabled, you still get a correct UTF-8-encoded string, regardless of these flags, just some more characters will be escaped using "\uXXXX" then before.

Note that ISO-8859-1-*encoded* strings are not compatible with UTF-8 encoding, while

ASCII-encoded strings are. That is

because the ISO-8859-1 encoding is NOT a subset of UTF-8 (despite the ISO-8859-1 *codeset* being a subset of Unicode), while ASCII is.

Surprisingly, "decode" will ignore these flags and so treat all input values as governed by the "utf8" flag. If it is disabled, this allows you to decode ISO-8859-1- and ASCII-encoded strings, as both strict subsets of Unicode. If it is enabled, you can correctly decode UTF-8 encoded strings.

So neither "latin1" nor "ascii" are incompatible with the "utf8" flag - they only govern when the JSON output engine escapes a character or not.

The main use for "latin1" is to relatively efficiently store binary data as JSON, at the expense of breaking compatibility with most JSON decoders.

The main use for "ascii" is to force the output to not contain characters with values > 127, which means you can interpret the resulting

string as UTF-8, ISO-8859-1, ASCII, KOI8-R or

most about any character set and 8-bit-encoding, and still get the same data structure back. This is useful when your channel for JSON transfer is not 8-bit clean or the encoding might be mangled in between (e.g. in mail), and works because ASCII is a proper subset of most 8-bit and multibyte encodings in use in the world.

BACKWARD INCOMPATIBILITY

Since version 2.90, stringification (and string comparison) for "JSON::true" and "JSON::false" has not been overloaded. It shouldn't matter as long as you treat them as boolean values, but a code that expects they are stringified as "true" or "false" doesn't work as you have expected any more.

```
if (JSON::true eq 'true') { # now fails
```

```
print "The result is $JSON::true now."; # => The result is 1 now.
```

And now these boolean values don't inherit JSON::Boolean, either. When you need to test a value is a JSON boolean value or not, use "JSON::is_bool" function, instead of testing the value inherits a particular boolean class or not.

BUGS

Please report bugs on backend selection and additional features this module provides to RT or GitHub issues for this module:

<https://rt.cpan.org/Public/Dist/Display.html?Queue=JSON>
<https://github.com/makamaka/JSON/issues>

Please report bugs and feature requests on decoding/encoding and boolean behaviors to the author of the backend module you are using.

SEE ALSO

JSON::XS, Cpanel::JSON::XS, JSON::PP for backends.

JSON::MaybeXS, an alternative that prefers Cpanel::JSON::XS.

"RFC4627"(<<http://www.ietf.org/rfc/rfc4627.txt>>)

AUTHOR

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JSON::XS was written by Marc Lehmann <[schmorp\[at\]schmorp.de](mailto:schmorp[at]schmorp.de)>

The release of this new version owes to the courtesy of Marc Lehmann.

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Found in path(s):

* /libjson-perl-4-02000-orig-1-tar-gz/JSON-4.02/README

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

=pod

=head1 NAME

JSON::PP56 - Helper module in using JSON::PP in Perl 5.6

=head1 DESCRIPTION

JSON::PP calls internally.

=head1 AUTHOR

Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>

=head1 COPYRIGHT AND LICENSE

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=cut

Found in path(s):

* /libjson-perl-4-02000-orig-1-tar-gz/JSON-4.02/lib/JSON/backportPP/Compat5006.pm

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

=pod

=head1 NAME

JSON::PP5005 - Helper module in using JSON::PP in Perl 5.005

=head1 DESCRIPTION

JSON::PP calls internally.

=head1 AUTHOR

Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>

=head1 COPYRIGHT AND LICENSE

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=cut

Found in path(s):

* /libjson-perl-4-02000-orig-1-tar-gz/JSON-4.02/lib/JSON/backportPP/Compat5005.pm

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

=pod

=head1 NAME

JSON::PP - JSON::XS compatible pure-Perl module.

=head1 SYNOPSIS

```
use JSON::PP;

# exported functions, they croak on error
# and expect/generate UTF-8

$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;

# OO-interface

$json = JSON::PP->new->ascii->pretty->allow_nonref;

$pretty_printed_json_text = $json->encode( $perl_scalar );
$perl_scalar = $json->decode( $json_text );

# Note that JSON version 2.0 and above will automatically use
# JSON::XS or JSON::PP, so you should be able to just:

use JSON;
```

=head1 VERSION

4.02

=head1 DESCRIPTION

JSON::PP is a pure perl JSON decoder/encoder, and (almost) compatible to much faster L<JSON::XS> written by Marc Lehmann in C. JSON::PP works as a fallback module when you use L<JSON> module without having installed JSON::XS.

Because of this fallback feature of JSON.pm, JSON::PP tries not to be more JavaScript-friendly than JSON::XS (i.e. not to escape extra characters such as U+2028 and U+2029, etc), in order for you not to lose such JavaScript-friendliness silently when you use JSON.pm and install JSON::XS for speed or by accident. If you need JavaScript-friendly RFC7159-compliant pure perl module, try L<JSON::Tiny>, which is derived from L<Mojolicious> web framework and is also smaller and faster than JSON::PP.

JSON::PP has been in the Perl core since Perl 5.14, mainly for CPAN toolchain modules to parse META.json.

=head1 FUNCTIONAL INTERFACE

This section is taken from JSON::XS almost verbatim. C<encode_json> and C<decode_json> are exported by default.

=head2 encode_json

```
$json_text = encode_json $perl_scalar
```

Converts the given Perl data structure to a UTF-8 encoded, binary string (that is, the string contains octets only). Croaks on error.

This function call is functionally identical to:

```
$json_text = JSON::PP->new->utf8->encode($perl_scalar)
```

Except
being faster.

=head2 decode_json

```
$perl_scalar = decode_json $json_text
```

The opposite of C<encode_json>: expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference. Croaks on error.

This function call is functionally identical to:

```
$perl_scalar = JSON::PP->new->utf8->decode($json_text)
```

Except being faster.

=head2 JSON::PP::is_bool

```
$is_boolean = JSON::PP::is_bool($scalar)
```

Returns true if the passed scalar represents either JSON::PP::true or JSON::PP::false, two constants that act like C<1> and C<0> respectively and are also used to represent JSON C<true> and C<false> in Perl strings.

See L<MAPPING>, below, for more information on how JSON values are mapped to Perl.

=head1 OBJECT-ORIENTED INTERFACE

This section is also taken from JSON::XS.

The object oriented interface lets you configure your own encoding or decoding style, within the limits of supported formats.

```
=head2 new
```

```
$json  
= JSON::PP->new
```

Creates a new JSON::PP object that can be used to de/encode JSON strings. All boolean flags described below are by default I<disabled> (with the exception of C<allow_nonref>, which defaults to I<enabled> since version C<4.0>).

The mutators for flags all return the JSON::PP object again and thus calls can be chained:

```
my $json = JSON::PP->new->utf8->space_after->encode({a => [1,2]})  
=> {"a": [1, 2]}
```

```
=head2 ascii
```

```
$json = $json->ascii([$enable])
```

```
$enabled = $json->get_ascii
```

If C<\$enable> is true (or missing), then the C<encode> method will not generate characters outside the code range C<0..127> (which is ASCII). Any Unicode characters outside that range will be escaped using either a single \uXXXX (BMP characters) or a double \uHHHH\uLLLLL escape sequence, as per RFC4627. The resulting encoded JSON text can be treated as a native Unicode string, an ascii-encoded, latin1-encoded or UTF-8 encoded string, or any other superset of ASCII.

If C<\$enable> is false, then the C<encode> method will not escape Unicode characters unless required by the JSON syntax or other flags. This results in a faster and more compact format.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is to produce JSON texts that can be transmitted over a 7-bit channel, as the encoded JSON texts will not contain any 8 bit characters.

```
JSON::PP->new->ascii(1)->encode([chr 0x10401])  
=> ["\ud801\udc01"]
```

=head2 latin1

```
$json = $json->latin1([$enable])
```

```
$enabled = $json->get_latin1
```

If C<\$enable> is true (or missing), then the C<encode> method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range C<0..255>. The resulting string can be treated as a latin1-encoded JSON text or a native Unicode string. The C<decode> method will not be affected in any way by this flag, as C<decode> by default expects Unicode, which is a strict superset of latin1.

If

C<\$enable> is false, then the C<encode> method will not escape Unicode characters unless required by the JSON syntax or other flags.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is efficiently encoding binary data as JSON text, as most octets will not be escaped, resulting in a smaller encoded size. The disadvantage is that the resulting JSON text is encoded in latin1 (and must correctly be treated as such when storing and transferring), a rare encoding for JSON. It is therefore most useful when you want to store data structures known to contain binary data efficiently in files or databases, not when talking to other JSON encoders/decoders.

```
JSON::PP->new->latin1->encode(["\x{89}\x{abc}"]  
=> ["\x{89}\u0abc"]) # (perl syntax, U+abc escaped, U+89 not)
```

=head2 utf8

```
$json = $json->utf8([$enable])
```

```
$enabled = $json->get_utf8
```

If C<\$enable> is true (or missing), then the C<encode> method will encode the

JSON result into UTF-8, as required by many protocols, while the C<decode> method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range C<0..255>, they are thus useful for bitwise/binary I/O. In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If C<\$enable> is false, then the C<encode> method will return the JSON string as a (non-encoded) Unicode string, while C<decode> expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs

to be done yourself, e.g. using the Encode module.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

Example, output UTF-16BE-encoded JSON:

```
use Encode;
$json = encode "UTF-16BE", JSON::PP->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```
use Encode;
$object = JSON::PP->new->decode (decode "UTF-32LE", $json);
```

```
=head2
pretty
```

```
$json = $json->pretty([$enable])
```

This enables (or disables) all of the C<indent>, C<space_before> and C<space_after> (and in the future possibly more) flags in one call to generate the most readable (or most compact) form possible.

```
=head2 indent
```

```
$json = $json->indent([$enable])
```

```
$enabled = $json->get_indent
```

If C<\$enable> is true (or missing), then the C<encode> method will use a multiline format as output, putting every array member or object/hash key-value pair into its own line, indenting them properly.

If C<\$enable> is false, no newlines or indenting will be produced, and the resulting JSON text is guaranteed not to contain any C<newlines>.

This setting has no effect when decoding JSON texts.

The default indent space length is three.

You can use C<indent_length> to change the length.

```
=head2 space_before
```

```
$json = $json->space_before([$enable])
```

```
$enabled = $json->get_space_before
```

If C<\$enable> is true (or missing), then the C<encode>

method will add an extra optional space before the C<:> separating keys from values in JSON objects.

If C<\$enable> is false, then the C<encode> method will not add any extra space at those places.

This setting has no effect when decoding JSON texts. You will also most likely combine this setting with C<space_after>.

Example, space_before enabled, space_after and indent disabled:

```
{"key": "value"}
```

=head2 space_after

```
$json = $json->space_after([$enable])
```

```
$enabled = $json->get_space_after
```

If C<\$enable> is true (or missing), then the C<encode> method will add an extra optional space after the C<:> separating keys from values in JSON objects and extra whitespace after the C<,> separating key-value pairs and array members.

If C<\$enable> is false, then the C<encode> method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

```
{"key": "value"}
```

=head2 relaxed

```
$json = $json->relaxed([$enable])
```

```
$enabled = $json->get_relaxed
```

If C<\$enable> is true (or missing), then C<decode> will accept some extensions to normal JSON syntax (see below). C<encode> will not be affected in anyway. I<Be aware that this option makes you accept invalid JSON texts as if they were valid!>. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If C<\$enable> is false (the default), then C<decode> will only accept valid JSON texts.

Currently accepted extensions are:

=over 4

=item * list items can have an end-comma

JSON I<separates> array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

```
[
  1,
  2, <- this comma not normally allowed
]
{
  "k1": "v1",
  "k2": "v2", <- this comma
not normally allowed
}
```

=item * shell-style '#'-comments

Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

```
[
  1, # this comment not allowed in JSON
    # neither this one...
]
```

=item * C-style multiple-line '/* */'-comments (JSON::PP only)

Whenever JSON allows whitespace, C-style multiple-line comments are additionally allowed. Everything between C<*/> and C<*/> is a comment, after which more white-space and comments are allowed.

```
[
  1, /* this comment not allowed in JSON */
    /* neither this one... */
]
```

=item * C++-style one-line '//'-comments (JSON::PP only)

Whenever JSON allows whitespace, C++-style one-line comments are additionally allowed. They are terminated by the first carriage-return or line-feed

character, after which more white-space and comments are allowed.

```
[
  1, // this comment
  not allowed in JSON
  // neither this one...
]
```

=item * literal ASCII TAB characters in strings

Literal ASCII TAB characters are now allowed in strings (and treated as C<\t>).

```
[
  "Hello\tWorld",
  "Hello<TAB>World", # literal <TAB> would not normally be allowed
]
```

=back

=head2 canonical

```
$json = $json->canonical([$enable])
```

```
$enabled = $json->get_canonical
```

If C<\$enable> is true (or missing), then the C<encode> method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If C<\$enable> is false, then the C<encode> method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script, and can change even within the same run from 5.18 onwards).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

This setting has currently no effect on tied hashes.

=head2 allow_nonref

```
$json = $json->allow_nonref([$enable])
```



```
$enabled = $json->get_allow_nonref
```

Unlike other boolean options, this option is enabled by default beginning with version C<4.0>.

If C<\$enable> is true (or missing), then the C<encode> method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, C<decode> will accept those JSON values instead of croaking.

If C<\$enable> is false, then the C<encode> method will croak if it isn't passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, C<decode> will croak if given something that is not a JSON object or array.

Example, encode a Perl scalar as JSON value without enabled C<allow_nonref>, resulting in an error:

```
JSON::PP->new->allow_nonref(0)->encode  
("Hello, World!")  
=> hash- or arrayref expected...
```

```
=head2 allow_unknown
```

```
$json = $json->allow_unknown([$enable])
```

```
$enabled = $json->get_allow_unknown
```

If C<\$enable> is true (or missing), then C<encode> will I<not> throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON C<null> value. Note that blessed objects are not included here and are handled separately by C<allow_blessed>.

If C<\$enable> is false (the default), then C<encode> will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect C<decode> in any way, and it is recommended to leave it off unless you know your communications partner.

```
=head2 allow_blessed
```

```
$json = $json->allow_blessed([$enable])
```

```
$enabled = $json->get_allow_blessed
```

See L<OBJECT SERIALISATION> for details.

If C<\$enable> is true (or missing), then the C<encode> method will not barf when it encounters a blessed reference that it cannot convert otherwise. Instead, a JSON C<null> value is encoded instead of the object.

If C<\$enable> is false (the default), then C<encode> will throw an exception when it encounters a blessed object that it cannot convert otherwise.

This setting has no effect on C<decode>.

```
=head2 convert_blessed
```

```
$json = $json->convert_blessed([$enable])
```

```
$enabled = $json->get_convert_blessed
```

See L<OBJECT SERIALISATION> for details.

If C<\$enable> is true (or missing), then C<encode>, upon encountering a blessed object, will check for the availability of the C<TO_JSON> method on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object.

The C<TO_JSON> method may safely call die if it wants. If C<TO_JSON> returns other blessed objects, those will be handled in the same way. C<TO_JSON> must take care of not causing an endless recursion cycle (== crash) in this case. The name of C<TO_JSON> was chosen because other methods called by the Perl core (== not by the user of the object) are usually in upper case letters and to avoid collisions with any C<to_json> function or method.

If C<\$enable> is false (the default), then C<encode> will not consider this type of conversion.

This setting has no effect on C<decode>.

```
=head2 allow_tags
```

```
$json = $json->allow_tags([$enable])
```

```
$enabled = $json->get_allow_tags
```

See L<OBJECT SERIALISATION> for details.

If C<\$enable> is true (or missing), then C<encode>, upon encountering a blessed object, will check for the availability of the C<FREEZE> method on

the object's class. If found, it will be used to serialise the object into a nonstandard tagged JSON value (that JSON decoders cannot decode).

It also causes C<decode> to parse such tagged JSON values and deserialise them via a call to the C<THAW> method.

If C<\$enable> is false (the default), then C<encode> will not consider this type of conversion, and tagged JSON values will cause a parse error in C<decode>, as if tags were not part of the grammar.

```
=head2 boolean_values
```

```
$json->boolean_values([$false, $true])
```

```
($false, $true) = $json->get_boolean_values
```

By default, JSON booleans will be decoded as overloaded C<\$JSON::PP::false> and C<\$JSON::PP::true> objects.

With this method you can specify your own boolean values for decoding - on decode, JSON C<false> will be decoded as a copy of C<\$false>, and JSON C<true> will be decoded as C<\$true> ("copy" here is the same thing as assigning a value to another variable, i.e. C<\$copy = \$false>).

This is useful when you want to pass a decoded data structure directly to other serialisers like YAML, Data::MessagePack and so on.

Note that this works only when you C<decode>. You can set incompatible boolean objects (like L<boolean>), but when you C<encode> a data structure with such boolean objects, you still need to enable C<convert_blessed> (and add a C<TO_JSON> method if necessary).

Calling this method without any arguments will reset the booleans to their default values.

C<get_boolean_values> will return both C<\$false> and C<\$true> values, or the empty list when they are set to the default.

```
=head2 filter_json_object
```

```
$json = $json->filter_json_object([$coderef])
```

When C<\$coderef> is specified, it will be called from C<decode> each time it decodes a JSON object. The only argument is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (or rather a copy of it) is

inserted into the deserialised data structure. If it returns an empty list (NOTE: I<not> C<undef>, which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.

When C<\$coderef> is omitted or undefined, any existing callback will be removed and C<decode> will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

```
my $js = JSON::PP->new->filter_json_object(sub
{ 5 });
# returns [5]
$js->decode('{}');
# returns 5
$js->decode '{"a":1, "b":2}';
```

=head2 filter_json_single_key_object

```
$json = $json->filter_json_single_key_object($key [=> $coderef])
```

Works remotely similar to C<filter_json_object>, but is only called for JSON objects having a single key named C<\$key>.

This C<\$coderef> is called before the one specified via C<filter_json_object>, if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted into the data structure. If it returns nothing (not even C<undef> but the empty list), the callback from C<filter_json_object> will be called next, as if no single-key callback were specified.

If C<\$coderef> is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.

As this callback gets called less often than the C<filter_json_object> one, decoding speed will not usually suffer as much.

Therefore, single-key objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are C<__class_whatever__>, or C<\$__dollars_are_rarely_used__\$> or C<{}ugly_brace_placement>, or even things like C<__class_md5sum(classname)__>, to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form C<< { "__widget__" => <id> } >>
into the corresponding C<< \$WIDGET{<id>} >> object:

```
# return whatever is in $WIDGET{5}:
JSON::PP
->new
->filter_json_single_key_object (__widget__ => sub {
    $WIDGET{ $_[0] }
})
->decode ('{"__widget__": 5')

# this can be used with a TO_JSON method in some "widget" class
# for serialisation to
json:
sub WidgetBase::TO_JSON {
    my ($self) = @_;

    unless ($self->{id}) {
        $self->{id} = ..get..some..id..;
        $WIDGET{$self->{id}} = $self;
    }

    { __widget__ => $self->{id} }
}
```

=head2 shrink

```
$json = $json->shrink([$enable])
```

```
$enabled = $json->get_shrink
```

If C<\$enable> is true (or missing), the string returned by C<encode> will
be shrunk (i.e. downgraded if possible).

The actual definition of what shrink does might change in future versions,
but it will always try to save space at the expense of time.

If C<\$enable> is false, then JSON::PP does nothing.

=head2 max_depth

```
$json = $json->max_depth([$maximum_nesting_depth])
```

```
$max_depth = $json->get_max_depth
```

Sets the maximum nesting level (default C<512>) accepted while encoding
or decoding. If a higher nesting level is detected in JSON text or a Perl

data structure, then the encoder and decoder will stop and croak at that point.

Nesting level is defined by number of hash- or arrayrefs that the encoder needs to traverse to reach a given point or the number of C<{> or C<[> characters without their matching closing parenthesis crossed to reach a given character in a string.

Setting the maximum depth to one disallows any nesting, so that ensures that the object is only a single hash/object or array.

If no argument is given, the highest possible setting will be used, which is rarely useful.

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

```
=head2 max_size
```

```
$json = $json->max_size([$maximum_string_size])
```

```
$max_size = $json->get_max_size
```

Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is C<0>, meaning no limit. When C<decode> is called on a string that is longer than this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on C<encode> (yet).

If no argument is given, the limit check will be deactivated (same as when C<0> is specified).

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

```
=head2 encode
```

```
$json_text = $json->encode($perl_scalar)
```

Converts the given Perl value or data structure to its JSON representation. Croaks on error.

```
=head2 decode
```

```
$perl_scalar = $json->decode($json_text)
```

The opposite of C<encode>: expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

=head2 decode_prefix

```
($perl_scalar, $characters) = $json->decode_prefix($json_text)
```

This works like the C<decode> method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

This is useful if your JSON texts are not delimited by an outer protocol and you need to know where the JSON text ends.

```
JSON::PP->new->decode_prefix ("[1] the tail")  
=> ([1], 3)
```

=head1 FLAGS FOR JSON::PP ONLY

The

following flags and properties are for JSON::PP only. If you use any of these, you can't make your application run faster by replacing JSON::PP with JSON::XS. If you need these and also speed boost, you might want to try L<Cpanel::JSON::XS>, a fork of JSON::XS by Reini Urban, which supports some of these (with a different set of incompatibilities). Most of these historical flags are only kept for backward compatibility, and should not be used in a new application.

=head2 allow_singlequote

```
$json = $json->allow_singlequote([$enable])  
$enabled = $json->get_allow_singlequote
```

If C<\$enable> is true (or missing), then C<decode> will accept invalid JSON texts that contain strings that begin and end with single quotation marks. C<encode> will not be affected in any way. I<Be aware that this option makes you accept invalid JSON texts as if they were valid!>. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If

C<\$enable> is false (the default), then C<decode> will only accept valid JSON texts.

```
$json->allow_singlequote->decode(qq|{"foo":"bar"}|);  
$json->allow_singlequote->decode(qq|{'foo':"bar"}|);  
$json->allow_singlequote->decode(qq|{'foo':'bar'}|);
```

=head2 allow_barekey

```
$json = $json->allow_barekey([$enable])  
$enabled = $json->get_allow_barekey
```

If C<\$enable> is true (or missing), then C<decode> will accept invalid JSON texts that contain JSON objects whose names don't begin and end with quotation marks. C<encode> will not be affected in any way. I<Be aware that this option makes you accept invalid JSON texts as if they were valid!>. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If C<\$enable> is false (the default), then C<decode> will only accept valid JSON texts.

```
$json->allow_barekey->decode(qq|{foo:"bar"}|);
```

=head2 allow_bignum

```
$json = $json->allow_bignum([$enable])  
$enabled = $json->get_allow_bignum
```

If C<\$enable> is true (or missing), then C<decode> will convert big integers Perl cannot handle as integer into L<Math::BigInt> objects and convert floating numbers into L<Math::BigFloat> objects. C<encode> will convert C<Math::BigInt> and C<Math::BigFloat> objects into JSON numbers.

```
$json->allow_nonref->allow_bignum;  
$bigfloat = $json->decode('2.0000000000000000000000000001');  
print $json->encode($bigfloat);  
# => 2.00000000000000000000000000000000000000000000001
```

See also L<MAPPING>.

=head2 loose

```
$json = $json->loose([$enable])  
$enabled = $json->get_loose
```

If C<\$enable> is true (or missing), then C<decode> will accept invalid JSON texts that contain unescaped [`\x00-\x1f\x22\x5c`] characters. C<encode> will not be affected in any way. I<Be aware that this option makes you accept invalid JSON texts as if they were valid!>. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files

etc.)

If C<\$enable> is false (the default), then C<decode> will only accept valid JSON texts.

```
$json->loose->decode(qq["abc
    def"]);
```

=head2 escape_slash

```
$json = $json->escape_slash([$enable])
$enabled = $json->get_escape_slash
```

If C<\$enable> is true (or missing), then C<encode> will explicitly escape I<slash> (solidus; C<U+002F>) characters to reduce the risk of XSS (cross site scripting) that may be caused by C<< </script> >> in a JSON text, with the cost of bloating the size of JSON texts.

This option may be useful when you embed JSON in HTML, but embedding arbitrary JSON in HTML (by some HTML template toolkit or by string interpolation) is risky in general. You must escape necessary characters in correct order, depending on the context.

C<decode> will not be affected in any way.

=head2 indent_length

```
$json = $json->indent_length($number_of_spaces)
$length = $json->get_indent_length
```

This option is only useful when you also enable C<indent> or C<pretty>.

JSON::XS indents with three spaces when you C<encode> (if requested by C<indent> or C<pretty>), and the number cannot be changed.

JSON::PP allows you to change/get the number of indent spaces with these mutator/accessor. The default number of spaces is three (the same as JSON::XS), and the acceptable range is from C<0> (no indentation; it'd be better to disable indentation by C<indent(0)>) to C<15>.

=head2 sort_by

```
$json = $json->sort_by($code_ref)
$json = $json->sort_by($subroutine_name)
```

If you just want to sort keys (names) in JSON objects when you C<encode>, enable C<canonical> option (see above) that allows you to sort object keys alphabetically.

If you do need to sort non-alphabetically for whatever reasons, you can give a code reference (or a subroutine name) to C<sort_by>, then the argument will be passed to Perl's C<sort> built-in function.

As the sorting is done in the JSON::PP scope, you usually need to prepend C<JSON::PP::> to the subroutine name, and the special variables C<\$a> and C<\$b> used in the subroutine used by C<sort> function.

Example:

```
my %ORDER = (id => 1, class => 2, name => 3);
$json->sort_by(sub {
    ($ORDER{$JSON::PP::a} // 999) <=> ($ORDER{$JSON::PP::b} // 999)
    or $JSON::PP::a cmp $JSON::PP::b
});
print $json->encode([
    {name => 'CPAN', id => 1, href => 'http://cpan.org'}
]);
# [{"id":1,"name":"CPAN","href":"http://cpan.org"}]
```

Note that C<sort_by> affects all the plain hashes in the data structure. If you need finer control, C<tie> necessary hashes with a module that implements ordered hash (such as L<Hash::Ordered> and L<Tie::IxHash>). C<canonical> and C<sort_by> don't affect the key order in C<tie>d hashes.

```
use Hash::Ordered;
tie my %hash, 'Hash::Ordered',
    (name => 'CPAN', id => 1, href => 'http://cpan.org');
print $json->encode([\%hash]);
# [{"name":"CPAN","id":1,"href":"http://cpan.org"}] # order is kept
```

=head1 INCREMENTAL PARSING

This section is also taken from JSON::XS.

In some cases, there is the need for incremental parsing of JSON texts. While this module always has to keep both JSON text and resulting Perl data structure in memory at one time, it does allow you to parse a JSON stream incrementally. It does so by accumulating text until it has a full JSON object, which it then can decode. This process is similar to using C<decode_prefix> to see if a full JSON object is available, but is much more efficient (and can be implemented with a minimum of method calls).

JSON::PP will only attempt to parse the JSON text once it is sure it has enough text to get a decisive result, using a very simple but truly incremental parser. This means that it sometimes won't stop as early as the full parser, for example, it doesn't detect mismatched parentheses. The only thing it guarantees is that it starts decoding as soon as a syntactically valid JSON text has been seen. This means you need to set resource limits (e.g.

C<max_size>) to ensure the parser will stop parsing in the presence of syntax errors.

The following methods implement this incremental parser.

=head2 incr_parse

```
$json->incr_parse( [$string] ) # void context
```

```
$obj_or_undef = $json->incr_parse( [$string] ) # scalar context
```

```
@obj_or_empty = $json->incr_parse( [$string] ) # list context
```

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If C<\$string> is given, then this string is appended to the already existing JSON fragment stored in the C<\$json> object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly I<one> JSON object. If that is successful, it will return this object, otherwise it will return C<undef>.

If there is a parse error, this method will croak just as C<decode> would do (one can then use C<incr_skip> to skip the erroneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators (other than whitespace) between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return

them.

```
my @objs = JSON::PP->new->incr_parse ("[5][7][1,2]");
```

```
=head2 incr_text
```

```
$lvalue_string = $json->incr_text
```

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This I<only> works when a preceding call to C<incr_parse> in I<scalar context> successfully returned an object. Under all other circumstances you must not call this function (I mean it, although in simple tests it might actually work, it I<will> fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

That means you can only use this function to look at or manipulate text before or after complete JSON objects, not while the parser is in the middle of parsing a JSON object.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

```
=head2 incr_skip
```

```
$json->incr_skip
```

This will reset the state of the incremental parser and will remove the parsed text from the input buffer so far. This is useful after C<incr_parse> died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

The difference to C<incr_reset> is that only text until the parse error occurred is removed.

```
=head2 incr_reset
```

```
$json->incr_reset
```

This completely resets the incremental parser, that is, after this call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to ignore any trailing data, which means you have to reset the parser after

each successful decode.

=head1 MAPPING

Most of this section is also taken from JSON::XS.

This section describes how JSON::PP maps Perl values to JSON values and vice versa. These mappings are designed to "do the right thing" in most circumstances automatically, preserving round-tripping characteristics (what you put in comes out as something equivalent).

For the more enlightened: note that in the following descriptions, lowercase I<perl> refers to the Perl interpreter, while uppercase I<Perl> refers to the abstract Perl language itself.

=head2 JSON -> PERL

=over 4

=item object

A JSON object

becomes a reference to a hash in Perl. No ordering of object keys is preserved (JSON does not preserve object key ordering itself).

=item array

A JSON array becomes a reference to an array in Perl.

=item string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

=item number

A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, JSON::PP will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve

the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, JSON::PP only guarantees precision up to but not including the least significant bit.

When C<allow_bignum> is enabled, big integer values and any numeric values will be converted into L<Math::BigInt> and L<Math::BigFloat> objects respectively, without becoming string scalars or losing precision.

=item true, false

These JSON atoms become C<JSON::PP::true> and C<JSON::PP::false>, respectively. They are overloaded to act almost exactly like the numbers C<1> and C<0>. You can check whether a scalar is a JSON boolean by using the C<JSON::PP::is_bool> function.

=item null

A JSON null atom becomes C<undef> in Perl.

=item shell-style comments (C<< # I<text> >>)

As a nonstandard extension to the JSON syntax that is enabled by the C<relaxed> setting, shell-style comments are allowed. They can start anywhere outside strings and go till the end of the line.

=item tagged values (C<< (I<tag>)I<value> >>).

Another nonstandard extension to the JSON syntax, enabled with the C<allow_tags> setting, are tagged values. In this implementation, the I<tag> must be a perl package/class name encoded as a JSON string, and the I<value> must be a JSON array encoding optional constructor arguments.

See L<OBJECT SERIALISATION>, below, for details.

=back

=head2 PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

=over 4

=item hash references

Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order. JSON::PP can optionally sort the hash keys (determined by the I<canonical> flag and/or I<sort_by> property), so the same data structure will serialise to the same JSON text (given same settings and version of JSON::PP), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

=item array references

Perl array references become JSON arrays.

=item other references

Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers C<0> and C<1>, which get turned into C<false> and C<true> atoms in JSON. You can also use C<JSON::PP::false> and C<JSON::PP::true> to improve readability.

```
to_json [\0, JSON::PP::true]    # yields [false,true]
```

=item

JSON::PP::true, JSON::PP::false

These special values become JSON true and JSON false values, respectively. You can also use C<\1> and C<\0> directly if you want.

=item JSON::PP::null

This special value becomes JSON null.

=item blessed objects

Blessed objects are not directly representable in JSON, but C<JSON::PP>

allows various ways of handling objects. See L<OBJECT SERIALISATION>, below, for details.

=item simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: JSON::PP will encode undefined scalars as JSON C<null> values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

```
# dump as number
encode_json [2]          # yields [2]
encode_json [-3.0e17]     # yields [-3e+17]
my $value = 5; encode_json [$value] # yields [5]
```

```
# used as string, so dump as string
print $value;
encode_json [$value]
    # yields ["5"]
```

```
# undef becomes null
encode_json [undef]      # yields [null]
```

You can force the type to be a JSON string by stringifying it:

```
my $x = 3.1; # some variable containing a number
"$x";       # stringified
$x .= "";   # another, more awkward way to stringify
print $x;   # perl does it for you, too, quite often
            # (but for older perls)
```

You can force the type to be a JSON number by numifying it:

```
my $x = "3"; # some variable containing a string
$x += 0;     # numify it, ensuring it will be dumped as a number
$x *= 1;     # same thing, the choice is yours.
```

You can not currently force the type in other, less obscure, ways.

Since version 2.91_01, JSON::PP uses a different number detection logic that converts a scalar that is possible to turn into a number safely. The new logic is slightly faster, and tends to help people who use older perl or who want to encode complicated data structure. However, this may results

in a different JSON text from the one JSON::XS encodes (and thus may break tests that compare entire JSON texts). If you do need the previous behavior for compatibility or for finer control, set PERL_JSON_PP_USE_B environmental variable to true before you

C<use> JSON::PP (or JSON.pm).

Note that numerical precision has the same meaning as under Perl (so binary to decimal conversion follows the same rules as in Perl, which can differ to other languages). Also, your perl interpreter might expose extensions to the floating point numbers of your platform, such as infinities or NaN's - these cannot be represented in JSON, and it is an error to pass those in.

JSON::PP (and JSON::XS) trusts what you pass to C<encode> method (or C<encode_json> function) is a clean, validated data structure with values that can be represented as valid JSON values only, because it's not from an external data source (as opposed to JSON texts you pass to C<decode> or C<decode_json>, which JSON::PP considers tainted and doesn't trust). As JSON::PP doesn't know exactly what you and consumers of your JSON texts want the unexpected values to be (you may want to convert them into null, or to stringify them with or without normalisation (string representation of infinities/NaN may vary depending on platforms), or to croak without conversion), you're advised to do what you and your consumers need before you encode, and also not to numify values that may start with values that look like a number (including infinities/NaN), without validating.

=back

=head2 OBJECT SERIALISATION

As JSON cannot directly represent Perl objects, you have to choose between a pure JSON representation (without the ability to deserialise the object automatically again), and a nonstandard extension to the JSON syntax, tagged values.

=head3 SERIALISATION

What happens when C<JSON::PP> encounters a Perl object depends on the C<allow_blessed>, C<convert_blessed>, C<allow_tags> and C<allow_bignum> settings, which are used in this order:

=over 4

=item 1. C<allow_tags> is enabled and the object has a C<FREEZE> method.

In this case, C<JSON::PP> creates a tagged JSON value, using a nonstandard extension to the JSON syntax.

This works by invoking the C<FREEZE> method on the object, with the first

argument being the object to serialise, and the second argument being the constant string C<JSON> to distinguish it from other serialisers.

The C<FREEZE> method can return any number of values (i.e. zero or more). These values and the package/classname of the object will then be encoded as a tagged JSON value in the following format:

```
("classname")[FREEZE return values...]
```

e.g.:

```
("URI")["http://www.google.com/"]  
("MyDate")[2013,10,29]  
("ImageData::JPEG")["Z3...VICg=="]
```

For example, the hypothetical C<My::Object> C<FREEZE> method might use the objects C<type> and C<id> members to encode the object:

```
sub My::Object::FREEZE {  
    my ($self, $serialiser) = @_;  
  
    ($self->{type}, $self->{id})  
}
```

=item 2. C<convert_blessed> is enabled and the object has a C<TO_JSON> method.

In this case, the C<TO_JSON> method of the object is invoked in scalar context. It must return a single scalar that can be directly encoded into JSON. This scalar replaces the object in the JSON text.

For example, the following C<TO_JSON> method will convert all L<URI> objects to JSON strings when serialised. The fact that these values originally were L<URI> objects is lost.

```
sub URI::TO_JSON {  
    my ($uri) = @_;  
    $uri->as_string  
}
```

=item 3. C<allow_bignum> is enabled and the object is a C<Math::BigInt> or C<Math::BigFloat>.

The object will be serialised as a JSON number value.

=item 4. C<allow_blessed> is enabled.

The object will be serialised as a JSON null value.

=item 5. none of the above

If none of the settings are enabled or the respective methods are missing, C<JSON::PP> throws an exception.

=back

=head3 DESERIALISATION

For deserialisation there are only two cases to consider:

either

nonstandard tagging was used, in which case C<allow_tags> decides, or objects cannot be automatically be deserialised, in which case you can use postprocessing or the C<filter_json_object> or C<filter_json_single_key_object> callbacks to get some real objects out of your JSON.

This section only considers the tagged value case: a tagged JSON object is encountered during decoding and C<allow_tags> is disabled, a parse error will result (as if tagged values were not part of the grammar).

If C<allow_tags> is enabled, C<JSON::PP> will look up the C<THAW> method of the package/classname used during serialisation (it will not attempt to load the package as a Perl module). If there is no such method, the decoding will fail with an error.

Otherwise, the C<THAW> method is invoked with the classname as first argument, the constant string C<JSON> as second argument, and all the values from the JSON array (the values originally returned by the C<FREEZE> method) as remaining arguments.

The

method must then return the object. While technically you can return any Perl scalar, you might have to enable the C<allow_nonref> setting to make that work in all cases, so better return an actual blessed reference.

As an example, let's implement a C<THAW> function that regenerates the C<My::Object> from the C<FREEZE> example earlier:

```
sub My::Object::THAW {  
    my ($class, $serialiser, $type, $id) = @_;  
  
    $class->new (type => $type, id => $id)  
}
```

=head1 ENCODING/CODESET FLAG NOTES

This section is taken from JSON::XS.

The interested reader might have seen a number of flags that signify encodings or codesets - `C<utf8>`, `C<latin1>` and `C<ascii>`. There seems to be some confusion on what these do, so here is a short comparison:

`C<utf8>` controls whether the JSON text created by `C<encode>` (and expected by `C<decode>`) is UTF-8 encoded or not, while `C<latin1>` and `C<ascii>` only control whether `C<encode>` escapes character values outside their respective codeset range. Neither of these flags conflict with each other, although some combinations make less sense than others.

Care has been taken to make all flags symmetrical with respect to `C<encode>` and `C<decode>`, that is, texts encoded with any combination of these flag values will be correctly decoded when the same flags are used - in general, if you use different flag settings while encoding vs. when decoding you likely have a bug somewhere.

Below comes a verbose discussion of these flags. Note that a "codeset" is simply an abstract set of character-codepoint pairs, while an encoding takes those codepoint numbers and I<encodes> them, in our case into octets. Unicode is (among other things) a codeset, UTF-8 is an encoding, and ISO-8859-1 (= latin 1) and ASCII are both codesets I<and> encodings at the same time, which can be confusing.

=over 4

=item `C<utf8>` flag disabled

When `C<utf8>` is disabled (the default), then `C<encode>/C<decode>` generate and expect Unicode strings, that is, characters with high ordinal Unicode values (> 255) will be encoded as such characters, and likewise such characters are decoded as-is, no changes to them will be done, except "(re-)interpreting" them as Unicode codepoints or Unicode characters, respectively (to Perl, these are the same thing in strings unless you do funny/weird/dumb stuff).

This is useful when you want to do the encoding yourself (e.g. when you want to have UTF-16 encoded JSON texts) or when some other layer does the encoding for you (for example, when printing to a terminal using a filehandle that transparently encodes to UTF-8 you certainly do NOT want to UTF-8 encode your data first and have Perl encode it another time).

=item `C<utf8>` flag enabled

If the `C<utf8>`-flag is enabled, `C<encode>/C<decode>` will encode all characters using the corresponding UTF-8 multi-byte sequence, and will

expect your input strings to be encoded as UTF-8, that is, no "character" of the input string must have any value > 255, as UTF-8 does not allow that.

The

`C<utf8>` flag therefore switches between two modes: disabled means you will get a Unicode string in Perl, enabled means you get an UTF-8 encoded octet/binary string in Perl.

=item `C<latin1>` or `C<ascii>` flags enabled

With `C<latin1>` (or `C<ascii>`) enabled, `C<encode>` will escape characters with ordinal values > 255 (> 127 with `C<ascii>`) and encode the remaining characters as specified by the `C<utf8>` flag.

If `C<utf8>` is disabled, then the result is also correctly encoded in those character sets (as both are proper subsets of Unicode, meaning that a Unicode string with all character values < 256 is the same thing as a ISO-8859-1 string, and a Unicode string with all character values < 128 is the same thing as an ASCII string in Perl).

If `C<utf8>` is enabled, you still get a correct UTF-8-encoded string, regardless of these flags, just some more characters will be escaped using `C<\uXXXX>` then before.

Note that ISO-8859-1-`I<encoded>` strings are not compatible with UTF-8 encoding, while

ASCII-encoded strings are. That is because the ISO-8859-1 encoding is NOT a subset of UTF-8 (despite the ISO-8859-1 `I<codeset>` being a subset of Unicode), while ASCII is.

Surprisingly, `C<decode>` will ignore these flags and so treat all input values as governed by the `C<utf8>` flag. If it is disabled, this allows you to decode ISO-8859-1- and ASCII-encoded strings, as both strict subsets of Unicode. If it is enabled, you can correctly decode UTF-8 encoded strings.

So neither `C<latin1>` nor `C<ascii>` are incompatible with the `C<utf8>` flag - they only govern when the JSON output engine escapes a character or not.

The main use for `C<latin1>` is to relatively efficiently store binary data as JSON, at the expense of breaking compatibility with most JSON decoders.

The main use for `C<ascii>` is to force the output to not contain characters with values > 127, which means you can interpret the resulting string as UTF-8, ISO-8859-1, ASCII, KOI8-R or most about any character set and 8-bit-encoding,

and still get the same data structure back. This is useful when your channel for JSON transfer is not 8-bit clean or the encoding

might be mangled in between (e.g. in mail), and works because ASCII is a proper subset of most 8-bit and multibyte encodings in use in the world.

=back

=head1 BUGS

Please report bugs on a specific behavior of this module to RT or GitHub issues (preferred):

L<<https://github.com/makamaka/JSON-PP/issues>>

L<<https://rt.cpan.org/Public/Dist/Display.html?Queue=JSON-PP>>

As for new features and requests to change common behaviors, please ask the author of JSON::XS (Marc Lehmann, E<lt>schmorp[at]schmorp.deE<gt>) first, by email (important!), to keep compatibility among JSON.pm backends.

Generally speaking, if you need something special for you, you are advised to create a new module, maybe based on L<JSON::Tiny>, which is smaller and written in a much cleaner way than this module.

=head1 SEE ALSO

The F<json_pp> command line utility for quick experiments.

L<JSON::XS>,
L<Cpanel::JSON::XS>, and L<JSON::Tiny> for faster alternatives.
L<JSON> and L<JSON::MaybeXS> for easy migration.

L<JSON::backportPP::Compat5005> and L<JSON::backportPP::Compat5006> for older perl users.

RFC4627 (L<<http://www.ietf.org/rfc/rfc4627.txt>>)

RFC7159 (L<<http://www.ietf.org/rfc/rfc7159.txt>>)

RFC8259 (L<<http://www.ietf.org/rfc/rfc8259.txt>>)

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=head1 COPYRIGHT AND LICENSE

Most of the documentation is taken from JSON::XS by Marc Lehmann

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):

* /libjson-perl-4-02000-orig-1-tar-gz/JSON-4.02/lib/JSON/backportPP.pm

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

=head1 NAME

JSON::PP::Boolean - dummy module providing JSON::PP::Boolean

=head1 SYNOPSIS

do not "use" yourself

=head1 DESCRIPTION

This module exists only to provide overload resolution for Storable and similar modules. See L<JSON::PP> for more info about this class.

=head1 AUTHOR

This idea is from L<JSON::XS::Boolean> written by Marc Lehmann <schmorp[at]schmorp.de>

=head1 LICENSE

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):

* /libjson-perl-4-02000-orig-1-tar-gz/JSON-4.02/lib/JSON/backportPP/Boolean.pm

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

=head1 NAME

JSON - JSON (JavaScript Object Notation) encoder/decoder

=head1 SYNOPSIS

use JSON; # imports encode_json, decode_json, to_json and from_json.

```
# simple and fast interfaces (expect/generate UTF-8)
```

```
$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;  
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;
```

```
# OO-interface
```

```
$json = JSON->new->allow_nonref;
```

```
$json_text = $json->encode( $perl_scalar );  
$perl_scalar = $json->decode( $json_text );
```

```
$pretty_printed = $json->pretty->encode( $perl_scalar ); # pretty-printing
```

```
=head1 VERSION
```

4.02

```
=head1 DESCRIPTION
```

This module is a thin wrapper for L<JSON::XS>-compatible modules with a few additional features. All the backend modules convert a Perl data structure to a JSON text and vice versa. This module uses L<JSON::XS> by default, and when JSON::XS is not available, falls back on L<JSON::PP>, which is in the Perl core since

5.14. If JSON::PP is not available either, this module then falls back on JSON::backportPP (which is actually JSON::PP in a different .pm file) bundled in the same distribution as this module. You can also explicitly specify to use L<Cpanel::JSON::XS>, a fork of JSON::XS by Reini Urban.

All these backend modules have slight incompatibilities between them, including extra features that other modules don't support, but as long as you use only common features (most important ones are described below), migration from backend to backend should be reasonably easy. For details, see each backend module you use.

```
=head1 CHOOSING BACKEND
```

This module respects an environmental variable called C<PERL_JSON_BACKEND> when it decides a backend module to use. If this environmental variable is not set, it tries to load JSON::XS, and if JSON::XS is not available, it falls back on JSON::PP, and then JSON::backportPP if JSON::PP is not available either.

If you always don't want it to fall back on pure

perl modules, set the variable like this (C<export> may be C<setenv>, C<set> and the likes, depending on your environment):

```
> export PERL_JSON_BACKEND=JSON::XS
```

If you prefer Cpanel::JSON::XS to JSON::XS, then:

```
> export PERL_JSON_BACKEND=Cpanel::JSON::XS,JSON::XS,JSON::PP
```

You may also want to set this variable at the top of your test files, in order not to be bothered with incompatibilities between backends (you need to wrap this in C<BEGIN>, and set before actually C<use>-ing JSON module, as it decides its backend as soon as it's loaded):

```
BEGIN { $ENV{PERL_JSON_BACKEND}='JSON::backportPP'; }  
use JSON;
```

=head1 USING OPTIONAL FEATURES

There are a few options you can set when you C<use> this module. These historical options are only kept for backward compatibility, and should not be used in a new application.

=over

=item -support_by_pp

```
BEGIN { $ENV{PERL_JSON_BACKEND} = 'JSON::XS' }
```

```
use JSON -support_by_pp;
```

```
my $json = JSON->new;
```

```
# escape_slash is for
```

```
JSON::PP only.
```

```
$json->allow_nonref->escape_slash->encode("/");
```

With this option, this module loads its pure perl backend along with its XS backend (if available), and lets the XS backend to watch if you set a flag only JSON::PP supports. When you do, the internal JSON::XS object is replaced with a newly created JSON::PP object with the setting copied from the XS object, so that you can use JSON::PP flags (and its slower C<decode>/C<encode> methods) from then on. In other words, this is not something that allows you to hook JSON::XS to change its behavior while keeping its speed. JSON::XS and JSON::PP objects are quite different (JSON::XS object is a blessed scalar reference, while JSON::PP object is a blessed hash reference), and can't share their internals.

To avoid needless overhead (by copying settings), you are advised not to use this option and just to use JSON::PP explicitly when you need JSON::PP features.

```
=item -convert_blessed_universally
```

```
use JSON -convert_blessed_universally;
```

```
my $json = JSON->new->allow_nonref->convert_blessed;
my $object = bless {foo => 'bar'}, 'Foo';
$json->encode($object); # => {"foo":"bar"}
```

JSON::XS-compatible backend modules don't encode blessed objects by default (except for their boolean values, which are typically blessed JSON::PP::Boolean objects). If you need to encode a data structure that may contain objects, you usually need to look into the structure and replace objects with alternative non-blessed values, or enable C<convert_blessed> and provide a C<TO_JSON> method for each object's (base) class that may be found in the structure, in order to let the methods replace the objects with whatever scalar values the methods return.

If you need to serialise data structures that may contain arbitrary objects, it's probably better to use other serialisers (such as L<Sereal> or L<Storable> for example), but if you do want to use this module for that purpose, C<-convert_blessed_universally> option may help, which tweaks

C<encode> method of the backend to install C<UNIVERSAL::TO_JSON> method (locally) before encoding, so that all the objects that don't have their own C<TO_JSON> method can fall back on the method in the C<UNIVERSAL> namespace. Note that you still need to enable C<convert_blessed> flag to actually encode objects in a data structure, and C<UNIVERSAL::TO_JSON> method installed by this option only converts blessed hash/array references into their unblessed clone (including private keys/values that are not supposed to be exposed). Other blessed references will be converted into null.

This feature is experimental and may be removed in the future.

```
=item -no_export
```

When you don't want to import functional interfaces from a module, you usually supply C<()> to its C<use> statement.

```
use JSON (); # no functional interfaces
```

If you don't want to import functional interfaces, but you also want to

use any of the above options, add C<-no_export> to the option list.

```
# no functional interfaces,  
while JSON::PP support is enabled.  
use JSON -support_by_pp, -no_export;
```

=back

=head1 FUNCTIONAL INTERFACE

This section is taken from JSON::XS. C<encode_json> and C<decode_json> are exported by default.

This module also exports C<to_json> and C<from_json> for backward compatibility. These are slower, and may expect/generate different stuff from what C<encode_json> and C<decode_json> do, depending on their options. It's better just to use Object-Oriented interfaces than using these two functions.

=head2 encode_json

```
$json_text = encode_json $perl_scalar
```

Converts the given Perl data structure to a UTF-8 encoded, binary string (that is, the string contains octets only). Croaks on error.

This function call is functionally identical to:

```
$json_text = JSON->new->utf8->encode($perl_scalar)
```

Except being faster.

=head2 decode_json

```
$perl_scalar = decode_json $json_text
```

The opposite of C<encode_json>: expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference. Croaks on error.

This function call is functionally identical to:

```
$perl_scalar = JSON->new->utf8->decode($json_text)
```

Except being faster.

=head2 to_json

```
$json_text = to_json($perl_scalar[, $optional_hashref])
```

Converts the given Perl data structure to a Unicode string by default. Croaks on error.

Basically, this function call is functionally identical to:

```
$json_text = JSON->new->encode($perl_scalar)
```

Except being slower.

You can pass an optional hash reference to modify its behavior, but that may change what C<to_json> expects/generates (see C<ENCODING/CODESET FLAG NOTES> for details).

```
$json_text = to_json($perl_scalar, {utf8 => 1, pretty => 1})  
# => JSON->new->utf8(1)->pretty(1)->encode($perl_scalar)
```

=head2 from_json

```
$perl_scalar = from_json($json_text[, $optional_hashref])
```

The opposite of C<to_json>: expects a Unicode string and tries to parse it, returning the resulting reference. Croaks on error.

Basically,
this function call is functionally identical to:

```
$perl_scalar = JSON->new->decode($json_text)
```

You can pass an optional hash reference to modify its behavior, but that may change what C<from_json> expects/generates (see C<ENCODING/CODESET FLAG NOTES> for details).

```
$perl_scalar = from_json($json_text, {utf8 => 1})  
# => JSON->new->utf8(1)->decode($json_text)
```

=head2 JSON::is_bool

```
$is_boolean = JSON::is_bool($scalar)
```

Returns true if the passed scalar represents either JSON::true or JSON::false, two constants that act like C<1> and C<0> respectively and are also used to represent JSON C<true> and C<false> in Perl strings.

See L<MAPPING>, below, for more information on how JSON values are mapped to Perl.

=head1 COMMON OBJECT-ORIENTED INTERFACE

This section is also taken from JSON::XS.

The object oriented interface lets you configure your own encoding or decoding style, within the limits of supported formats.

=head2 new

```
$json = JSON->new
```

Creates

a new JSON::XS-compatible backend object that can be used to de/encode JSON strings. All boolean flags described below are by default I<disabled> (with the exception of C<allow_nonref>, which defaults to I<enabled> since version C<4.0>).

The mutators for flags all return the backend object again and thus calls can be chained:

```
my $json = JSON->new->utf8->space_after->encode({a => [1,2]})
=> {"a": [1, 2]}
```

=head2 ascii

```
$json = $json->ascii([$enable])
```

```
$enabled = $json->get_ascii
```

If C<\$enable> is true (or missing), then the C<encode> method will not generate characters outside the code range C<0..127> (which is ASCII). Any Unicode characters outside that range will be escaped using either a single \uXXXX (BMP characters) or a double \uHHHH\uLLLLL escape sequence, as per RFC4627. The resulting encoded JSON text can be treated as a native Unicode string, an ascii-encoded, latin1-encoded or UTF-8 encoded string, or any other superset of ASCII.

If C<\$enable> is false, then the C<encode> method will not escape Unicode characters unless required by the JSON syntax or other flags. This results in a faster and more compact format.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is to produce JSON texts that can be transmitted over a 7-bit channel, as the encoded JSON texts will not contain any 8 bit characters.

```
JSON->new->ascii(1)->encode([chr 0x10401])  
=> ["\ud801\udc01"]
```

```
=head2 latin1
```

```
$json = $json->latin1([$enable])
```

```
$enabled = $json->get_latin1
```

If C<\$enable> is true (or missing), then the C<encode> method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range C<0..255>. The resulting string can be treated as a latin1-encoded JSON text or a native Unicode string. The C<decode> method will not be affected in any way by this flag, as C<decode> by default expects Unicode, which is a strict superset of latin1.

If C<\$enable> is false, then the C<encode> method will not escape Unicode characters unless required by the JSON syntax or other flags.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is efficiently encoding binary data as JSON text, as most octets will not be escaped, resulting in a smaller encoded size. The disadvantage is that the resulting JSON text is encoded in latin1 (and must correctly be treated as such when storing and transferring), a rare encoding for JSON. It is therefore most useful when you want to store data structures known to contain binary data efficiently in files or databases, not when talking to other JSON encoders/decoders.

```
JSON->new->latin1->encode(["\x{89}\x{abc}"])  
=> ["\x{89}\u0abc"] # (perl syntax, U+abc escaped, U+89 not)
```

```
=head2 utf8
```

```
$json = $json->utf8([$enable])
```

```
$enabled = $json->get_utf8
```

If C<\$enable> is true (or missing), then the C<encode> method will encode the JSON result into UTF-8, as required by many protocols, while the C<decode> method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range C<0..255>, they are thus useful for bitwise/binary I/O. In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If C<\$enable> is false, then the C<encode> method will return the JSON string as a (non-encoded) Unicode string, while C<decode> expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

Example, output UTF-16BE-encoded JSON:

```
use Encode;
$jsoncontext = encode "UTF-16BE", JSON->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```
use Encode;
$object = JSON->new->decode (decode "UTF-32LE", $jsoncontext);
```

=head2 pretty

```
$json =
$json->pretty([$enable])
```

This enables (or disables) all of the C<indent>, C<space_before> and C<space_after> (and in the future possibly more) flags in one call to generate the most readable (or most compact) form possible.

=head2 indent

```
$json = $json->indent([$enable])
```

```
$enabled = $json->get_indent
```

If C<\$enable> is true (or missing), then the C<encode> method will use a multiline format as output, putting every array member or object/hash key-value pair into its own line, indenting them properly.

If C<\$enable> is false, no newlines or indenting will be produced, and the resulting JSON text is guaranteed not to contain any C<newlines>.

This setting has no effect when decoding JSON texts.

=head2 space_before

```
$json = $json->space_before([$enable])
```

```
$enabled = $json->get_space_before
```

If C<\$enable> is true (or missing), then the C<encode> method will add an extra optional space before the C<:> separating keys from values in JSON objects.

If C<\$enable> is false,
then the C<encode> method will not add any extra
space at those places.

This setting has no effect when decoding JSON texts. You will also
most likely combine this setting with C<space_after>.

Example, space_before enabled, space_after and indent disabled:

```
{"key" : "value"}
```

=head2 space_after

```
$json = $json->space_after([$enable])
```

```
$enabled = $json->get_space_after
```

If C<\$enable> is true (or missing), then the C<encode> method will add an extra optional space after the C<:> separating keys from values in JSON objects and extra whitespace after the C<,> separating key-value pairs and array members.

If C<\$enable> is false, then the C<encode> method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

```
{"key": "value"}
```

=head2 relaxed

```
$json = $json->relaxed([$enable])
```

```
$enabled = $json->get_relaxed
```

If C<\$enable> is true (or missing), then
C<decode> will accept some
extensions to normal JSON syntax (see below). C<encode> will not be
affected in any way. I<Be aware that this option makes you accept invalid
JSON texts as if they were valid!>. I suggest only to use this option to
parse application-specific files written by humans (configuration files,
resource files etc.)

If C<\$enable> is false (the default), then C<decode> will only accept valid JSON texts.

Currently accepted extensions are:

=over 4

=item * list items can have an end-comma

JSON I<separates> array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

```
[
  1,
  2, <- this comma not normally allowed
]
{
  "k1": "v1",
  "k2": "v2", <- this comma not normally allowed
}
```

=item * shell-style '#'-comments

Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

```
[
  1, # this comment not allowed in JSON
    # neither this one...
]
```

=back

=head2 canonical

```
$json = $json->canonical([$enable])
```

```
$enabled = $json->get_canonical
```

If C<\$enable> is true (or missing), then the C<encode> method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If C<\$enable> is false, then the C<encode> method will output key-value pairs in the order Perl stores them (which will likely change between runs

of the same script, and can change even within the same run from 5.18 onwards).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

This setting has currently no effect on tied hashes.

```
=head2 allow_nonref
```

```
$json = $json->allow_nonref([$enable])
```

```
$enabled = $json->get_allow_nonref
```

Unlike other boolean options, this option is enabled by default beginning with version C<4.0>.

If C<\$enable> is true (or missing), then the C<encode> method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, C<decode> will accept those JSON values instead of croaking.

If C<\$enable> is false, then the C<encode> method will croak if it isn't passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, C<decode> will croak if given something that is not a JSON object or array.

Example, encode a Perl scalar as JSON value with enabled C<allow_nonref>, resulting in an invalid JSON text:

```
JSON->new->allow_nonref->encode ("Hello, World!")  
=> "Hello, World!"
```

```
=head2  
allow_unknown
```

```
$json = $json->allow_unknown([$enable])
```

```
$enabled = $json->get_allow_unknown
```

If C<\$enable> is true (or missing), then C<encode> will I<not> throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON C<null> value. Note

that blessed objects are not included here and are handled separately by `C<allow_blessed>`.

If `C<$enable>` is false (the default), then `C<encode>` will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect `C<decode>` in any way, and it is recommended to leave it off unless you know your communications partner.

```
=head2 allow_blessed
```

```
$json = $json->allow_blessed([$enable])
```

```
$enabled = $json->get_allow_blessed
```

See L<OBJECT SERIALISATION> for details.

If `C<$enable>` is true (or missing), then the `C<encode>` method will not barf when it encounters a blessed reference that it cannot convert otherwise. Instead, a JSON `C<null>` value is encoded instead of the object.

If `C<$enable>` is false (the default), then `C<encode>` will throw an exception when it encounters a blessed object that it cannot convert otherwise.

This setting has no effect on `C<decode>`.

```
=head2 convert_blessed
```

```
$json = $json->convert_blessed([$enable])
```

```
$enabled = $json->get_convert_blessed
```

See L<OBJECT SERIALISATION> for details.

If `C<$enable>` is true (or missing), then `C<encode>`, upon encountering a blessed object, will check for the availability of the `C<TO_JSON>` method on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object.

The `C<TO_JSON>` method may safely call die if it wants. If `C<TO_JSON>` returns other blessed objects, those will be handled in the same way. `C<TO_JSON>` must take care of not causing an endless recursion cycle (== crash) in this case. The name of `C<TO_JSON>` was chosen because other methods called by the Perl core (== not

by the user of the object) are usually in upper case letters and to avoid collisions with any `C<to_json>`

function or method.

If C<\$enable> is false (the default), then C<encode> will not consider this type of conversion.

This setting has no effect on C<decode>.

=head2 allow_tags (since version 3.0)

```
$json = $json->allow_tags([$enable])
```

```
$enabled = $json->get_allow_tags
```

See L<OBJECT SERIALISATION> for details.

If C<\$enable> is true (or missing), then C<encode>, upon encountering a blessed object, will check for the availability of the C<FREEZE> method on the object's class. If found, it will be used to serialise the object into a nonstandard tagged JSON value (that JSON decoders cannot decode).

It also causes C<decode> to parse such tagged JSON values and deserialise them via a call to the C<THAW> method.

If C<\$enable> is false (the default), then C<encode> will not consider this type of conversion, and tagged JSON values will cause a parse error in C<decode>, as if tags were not part of the grammar.

=head2 boolean_values (since version 4.0)

```
$json->boolean_values([$false, $true])
```

```
($false, $true) = $json->get_boolean_values
```

By default, JSON booleans will be decoded as overloaded C<\$JSON::false> and C<\$JSON::true> objects.

With this method you can specify your own boolean values for decoding - on decode, JSON C<false> will be decoded as a copy of C<\$false>, and JSON C<true> will be decoded as C<\$true> ("copy" here is the same thing as assigning a value to another variable, i.e. C<\$copy = \$false>).

This is useful when you want to pass a decoded data structure directly to other serialisers like YAML, Data::MessagePack and so on.

Note that this works only when you C<decode>. You can set incompatible boolean objects (like L<boolean>), but when you C<encode> a data structure with such boolean objects, you still need to enable C<convert_blessed>

(and add a C<TO_JSON> method if necessary).

Calling this method without any arguments will reset the
booleans
to their default values.

C<get_boolean_values> will return both C<\$false> and C<\$true> values, or
the empty list when they are set to the default.

=head2 filter_json_object

```
$json = $json->filter_json_object([$coderef])
```

When C<\$coderef> is specified, it will be called from C<decode> each
time it decodes a JSON object. The only argument is a reference to
the newly-created hash. If the code references returns a single scalar
(which need not be a reference), this value (or rather a copy of it) is
inserted into the deserialised data structure. If it returns an empty
list (NOTE: I<not> C<undef>, which is a valid scalar), the original
deserialised hash will be inserted. This setting can slow down decoding
considerably.

When C<\$coderef> is omitted or undefined, any existing callback will
be removed and C<decode> will not change the deserialised hash in any
way.

Example, convert all JSON objects into the integer 5:

```
my $js = JSON->new->filter_json_object(sub { 5 });  
#  
returns [5]  
$js->decode('{}');  
# returns 5  
$js->decode '{"a":1, "b":2}');
```

=head2 filter_json_single_key_object

```
$json = $json->filter_json_single_key_object($key [=> $coderef])
```

Works remotely similar to C<filter_json_object>, but is only called for
JSON objects having a single key named C<\$key>.

This C<\$coderef> is called before the one specified via
C<filter_json_object>, if any. It gets passed the single value in the JSON
object. If it returns a single value, it will be inserted into the data
structure. If it returns nothing (not even C<undef> but the empty list),
the callback from C<filter_json_object> will be called next, as if no
single-key callback were specified.

If C<\$coderef> is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.

As this callback gets called less often than the C<filter_json_object> one, decoding speed will not usually suffer as much. Therefore, single-key objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are C<__class_whatever__>, or C<\$__dollars_are_rarely_used__\$> or C<{}ugly_brace_placement>, or even things like C<__class_md5sum(classname)__>, to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form C<< { "__widget__" => <id> } >> into the corresponding C<< \$WIDGET{<id>} >> object:

```
# return whatever is in $WIDGET{5}:
JSON
->new
->filter_json_single_key_object (__widget__ => sub {
    $WIDGET{ $_[0] }
})
->decode ('{"__widget__": 5')

# this can be used with a TO_JSON method in some "widget" class
# for serialisation to json:
sub WidgetBase::TO_JSON {
    my
($self) = @_;

    unless ($self->{id}) {
        $self->{id} = ..get..some..id..;
        $WIDGET{$self->{id}} = $self;
    }

    { __widget__ => $self->{id} }
}

=head2 max_depth

$json = $json->max_depth([$maximum_nesting_depth])

$max_depth = $json->get_max_depth
```

Sets the maximum nesting level (default C<512>) accepted while encoding or decoding. If a higher nesting level is detected in JSON text or a Perl data structure, then the encoder and decoder will stop and croak at that point.

Nesting level is defined by number of hash- or arrayrefs that the encoder needs to traverse to reach a given point or the number of C<{> or C<[> characters without their matching closing parenthesis crossed to reach a given character in a string.

Setting the maximum depth to one disallows any nesting, so that ensures that the object is only a single hash/object or array.

If no argument is given, the highest possible setting will be used, which is rarely useful.

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

```
=head2 max_size
```

```
$json = $json->max_size([$maximum_string_size])
```

```
$max_size = $json->get_max_size
```

Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is C<0>, meaning no limit. When C<decode> is called on a string that is longer than this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on C<encode> (yet).

If no argument is given, the limit check will be deactivated (same as when C<0> is specified).

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

```
=head2 encode
```

```
$json_text = $json->encode($perl_scalar)
```

Converts the given Perl value or data structure to its JSON representation. Croaks on error.

```
=head2 decode
```

```
$perl_scalar = $json->decode($json_text)
```

The opposite of `C<encode>`: expects a JSON text and tries to parse it, returning the resulting simple scalar or reference.

Croaks on error.

=head2 decode_prefix

```
($perl_scalar, $characters) = $json->decode_prefix($json_text)
```

This works like the `C<decode>` method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

This is useful if your JSON texts are not delimited by an outer protocol and you need to know where the JSON text ends.

```
JSON->new->decode_prefix("[1] the tail")  
=> ([1], 3)
```

=head1 ADDITIONAL METHODS

The following methods are for this module only.

=head2 backend

```
$backend = $json->backend
```

Since 2.92, `C<backend>` method returns an abstract backend module used currently, which should be `JSON::Backend::XS` (which inherits `JSON::XS` or `Cpanel::JSON::XS`), or `JSON::Backend::PP` (which inherits `JSON::PP`), not to monkey-patch the actual backend module globally.

If you need to know what is used actually, use `C<isa>`, instead of string comparison.

=head2
is_xs

```
$boolean = $json->is_xs
```

Returns true if the backend inherits `JSON::XS` or `Cpanel::JSON::XS`.

=head2 is_pp

```
$boolean = $json->is_pp
```

Returns true if the backend inherits `JSON::PP`.

=head2 property


```
$settings = $json->property()
```

Returns a reference to a hash that holds all the common flag settings.

```
$json = $json->property('utf8' => 1)
$value = $json->property('utf8') # 1
```

You can use this to get/set a value of a particular flag.

```
=head2 boolean
```

```
$boolean_object = JSON->boolean($scalar)
```

Returns `$JSON::true` if `$scalar` contains a true value, `$JSON::false` otherwise. You can use this as a full-qualified function (`C<JSON::boolean($scalar)>`).

```
=head1 INCREMENTAL PARSING
```

This section is also taken from `JSON::XS`.

In some cases, there is the need for incremental parsing of JSON texts. While this module always has to keep both JSON text and resulting Perl data structure in memory at one time, it does allow you to parse a JSON stream incrementally. It does so by accumulating text until it has a full JSON object, which it then can decode. This process is similar to using `C<decode_prefix>` to see if a full JSON object is available, but is much more efficient (and can be implemented with a minimum of method calls).

This module will only attempt to parse the JSON text once it is sure it has enough text to get a decisive result, using a very simple but truly incremental parser. This means that it sometimes won't stop as early as the full parser, for example, it doesn't detect mismatched parentheses. The only thing it guarantees is that it starts decoding as soon as a syntactically valid JSON text has been seen. This means you need to set resource limits (e.g. `C<max_size>`) to ensure the parser will stop parsing in the presence of syntax errors.

The following methods implement this incremental parser.

```
=head2 incr_parse
```

```
$json->incr_parse( [$string] ) # void context
```

```
$obj_or_undef = $json->incr_parse( [$string] ) # scalar context
```

```
@obj_or_empty = $json->incr_parse( [$string] ) # list context
```

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If C<\$string> is given, then this string is appended to the already existing JSON fragment stored in the C<\$json> object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly I<one> JSON object. If that is successful, it will return this object, otherwise it will return C<undef>. If there is a parse error, this method will croak just as C<decode> would do (one can then use C<incr_skip> to skip the erroneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators (other than whitespace) between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return them.

```
my @objs = JSON->new->incr_parse ("[5][7][1,2]");
```

```
=head2 incr_text
```

```
$lvalue_string = $json->incr_text
```

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This I<only> works when a preceding call to C<incr_parse> in I<scalar context> successfully returned an object. Under all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it I<will> fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

That

means you can only use this function to look at or manipulate text before or after complete JSON objects, not while the parser is in the middle of parsing a JSON object.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

```
=head2 incr_skip
```

```
$json->incr_skip
```

This will reset the state of the incremental parser and will remove the parsed text from the input buffer so far. This is useful after C<incr_parse> died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

The difference to C<incr_reset> is that only text until the parse error occurred is removed.

```
=head2 incr_reset
```

```
$json->incr_reset
```

This completely resets the incremental parser, that is, after this call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to ignore any trailing data, which means you have to reset the parser after each successful decode.

```
=head1 MAPPING
```

Most of this section is also taken from JSON::XS.

This section describes how the backend modules map Perl values to JSON values and vice versa. These mappings are designed to "do the right thing" in most circumstances automatically, preserving round-tripping characteristics (what you put in comes out as something equivalent).

For the more enlightened: note that in the following descriptions, lowercase I<perl> refers to the Perl interpreter, while uppercase I<Perl> refers to the abstract Perl language itself.

```
=head2 JSON -> PERL
```

=over 4

=item object

A JSON object becomes a reference to a hash in Perl. No ordering of object keys is preserved (JSON does not preserve object key ordering itself).

=item array

A JSON array becomes a reference to an array in Perl.

=item string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

=item number

A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, this module will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision

(in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, this module only guarantees precision up to but not including the least significant bit.

=item true, false

These JSON atoms become C<JSON::true> and C<JSON::false>, respectively. They are overloaded to act almost exactly like the numbers

C<1> and C<0>. You can check whether a scalar is a JSON boolean by using the C<JSON::is_bool> function.

=item null

A JSON null atom becomes C<undef> in Perl.

=item shell-style comments (C<< # I<text> >>)

As a nonstandard extension to the JSON syntax that is enabled by the C<relaxed> setting, shell-style comments are allowed. They can start anywhere outside strings and go till the end of the line.

=item tagged values (C<< (I<tag>)I<value> >>).

Another nonstandard extension to the JSON syntax, enabled with the C<allow_tags> setting, are tagged values. In this implementation, the I<tag> must be a perl package/class name encoded as a JSON string, and the I<value> must be a JSON array encoding optional constructor arguments.

See L<OBJECT SERIALISATION>, below, for details.

=back

=head2 PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

=over 4

=item hash references

Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order. This module can optionally sort the hash keys (determined by the I<canonical> flag), so the same data structure will serialise to the same JSON text (given same settings and version of the same backend), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

=item array references

Perl array references become JSON arrays.

=item other references

Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers C<0> and C<1>, which get turned into C<false> and C<true> atoms in JSON. You can also use C<JSON::false> and C<JSON::true> to improve readability.

```
encode_json [\0,JSON::true]    # yields [false,true]
```

=item JSON::true, JSON::false, JSON::null

These special values become JSON true and JSON false values, respectively. You can also use C<\1> and C<\0> directly if you want.

=item blessed objects

Blessed objects are not directly representable in JSON, but C<JSON::XS> allows various ways of handling objects. See L<OBJECT SERIALISATION>, below, for details.

=item simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: this module will encode undefined scalars as JSON

C<null> values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

```
# dump as number
encode_json [2]          # yields [2]
encode_json [-3.0e17]     # yields [-3e+17]
my $value = 5; encode_json [$value] # yields [5]
```

```
# used as string, so dump as string
print $value;
encode_json [$value]      # yields ["5"]
```

```
# undef becomes null
encode_json [undef]      # yields [null]
```

You can force the type to be a string by stringifying it:

```
my $x = 3.1; # some variable containing a number
"$x";       # stringified
$x .= "";   # another, more awkward way to stringify
print $x;   # perl does it for you, too, quite often
```

You can force the type to be a number by numifying it:

```
my $x = "3"; # some variable containing a string
$x += 0;    # numify it, ensuring it will be dumped as a number
$x *= 1;    # same thing, the choice is yours.
```

You

can not currently force the type in other, less obscure, ways. Tell me if you need this capability (but don't forget to explain why it's needed :).

Since version 2.91_01, JSON::PP uses a different number detection logic that converts a scalar that is possible to turn into a number safely.

The new logic is slightly faster, and tends to help people who use older perl or who want to encode complicated data structure. However, this may results in a different JSON text from the one JSON::XS encodes (and thus may break tests that compare entire JSON texts). If you do need the previous behavior for better compatibility or for finer control, set PERL_JSON_PP_USE_B environmental variable to true before you C<use> JSON.

Note that numerical precision has the same meaning as under Perl (so binary to decimal conversion follows the same rules as in Perl, which can differ to other languages). Also, your perl interpreter might expose extensions to the floating point numbers of your platform, such as infinities or NaN's - these cannot be represented in JSON, and it is an error to pass those in.

JSON.pm backend modules trust what you pass to C<encode> method (or C<encode_json> function) is a clean, validated data structure with values that can be represented as valid JSON values only, because it's not from an external data source (as opposed to JSON texts you pass to C<decode> or C<decode_json>, which JSON backends consider tainted and don't trust). As JSON backends don't know exactly what you and consumers of your JSON texts want the unexpected values to be (you may want to convert them into null, or to stringify them with or without normalisation (string representation of infinities/NaN may vary depending on platforms), or to croak without conversion), you're advised to do what you and your consumers need before you encode, and also not to numify values that may start with values that look like a number (including infinities/NaN), without validating.

=back

=head2 OBJECT
SERIALISATION

As JSON cannot directly represent Perl objects, you have to choose between a pure JSON representation (without the ability to deserialise the object automatically again), and a nonstandard extension to the JSON syntax, tagged values.

=head3 SERIALISATION

What happens when this module encounters a Perl object depends on the C<allow_blessed>, C<convert_blessed> and C<allow_tags> settings, which are used in this order:

=over 4

=item 1. C<allow_tags> is enabled and the object has a C<FREEZE> method.

In this case, C<JSON> creates a tagged JSON value, using a nonstandard extension to the JSON syntax.

This works by invoking the C<FREEZE> method on the object, with the first argument being the object to serialise, and the second argument being the constant string C<JSON> to distinguish it from other serialisers.

The C<FREEZE> method can return any number of values (i.e. zero or more). These values and the package/classname of the object will then be encoded as a tagged JSON value in the following format:

```
("classname")[FREEZE return values...]
```

e.g.:

```
("URI")["http://www.google.com/"]  
("MyDate")["2013,10,29"]  
("ImageData::JPEG")["Z3...VlCg=="]
```

For example, the hypothetical C<My::Object> C<FREEZE> method might use the objects C<type> and C<id> members to encode the object:

```
sub My::Object::FREEZE {  
    my ($self, $serialiser) = @_;  
  
    ($self->{type}, $self->{id})  
}
```

=item 2. C<convert_blessed> is enabled and the object has a C<TO_JSON> method.

In this case, the C<TO_JSON> method of the object is invoked in scalar context. It must return a single scalar that can be directly encoded into

JSON. This scalar replaces the object in the JSON text.

For example, the following C<TO_JSON> method will convert all L<URI> objects to JSON strings when serialised. The fact that these values originally were L<URI> objects is lost.

```
sub URI::TO_JSON {  
    my ($uri) = @_;  
    $uri->as_string  
}
```

=item 3. C<allow_blessed> is enabled.

The
object will be serialised as a JSON null value.

=item 4. none of the above

If none of the settings are enabled or the respective methods are missing, this module throws an exception.

=back

=head3 DESERIALISATION

For deserialisation there are only two cases to consider: either nonstandard tagging was used, in which case C<allow_tags> decides, or objects cannot be automatically be deserialised, in which case you can use postprocessing or the C<filter_json_object> or C<filter_json_single_key_object> callbacks to get some real objects out of your JSON.

This section only considers the tagged value case: a tagged JSON object is encountered during decoding and C<allow_tags> is disabled, a parse error will result (as if tagged values were not part of the grammar).

If C<allow_tags> is enabled, this module will look up the C<THAW> method of the package/classname used during serialisation (it will not attempt to load the package as a Perl module). If there is no such method, the decoding
will fail with an error.

Otherwise, the C<THAW> method is invoked with the classname as first argument, the constant string C<JSON> as second argument, and all the values from the JSON array (the values originally returned by the C<FREEZE> method) as remaining arguments.

The method must then return the object. While technically you can return

any Perl scalar, you might have to enable the C<allow_nonref> setting to make that work in all cases, so better return an actual blessed reference.

As an example, let's implement a C<THAW> function that regenerates the C<My::Object> from the C<FREEZE> example earlier:

```
sub My::Object::THAW {  
    my ($class, $serialiser, $type, $id) = @_;  
  
    $class->new (type => $type, id => $id)  
}
```

=head1 ENCODING/CODESET FLAG NOTES

This section is taken from JSON::XS.

The interested reader might have seen a number of flags that signify encodings or codesets - C<utf8>, C<latin1> and C<ascii>. There seems to be some confusion on what these do, so here is a short comparison:

C<utf8> controls whether the JSON text created by C<encode> (and expected by C<decode>) is UTF-8 encoded or not, while C<latin1> and C<ascii> only control whether C<encode> escapes character values outside their respective codeset range. Neither of these flags conflict with each other, although some combinations make less sense than others.

Care has been taken to make all flags symmetrical with respect to C<encode> and C<decode>, that is, texts encoded with any combination of these flag values will be correctly decoded when the same flags are used - in general, if you use different flag settings while encoding vs. when decoding you likely have a bug somewhere.

Below comes a verbose discussion of these flags. Note that a "codeset" is simply an abstract set of character-codepoint pairs, while an encoding takes those codepoint numbers and I<encodes> them, in our case into octets. Unicode is (among other things) a codeset, UTF-8 is an encoding, and ISO-8859-1

(= latin 1) and ASCII are both codesets I<and> encodings at the same time, which can be confusing.

=over 4

=item C<utf8> flag disabled

When C<utf8> is disabled (the default), then C<encode>/C<decode> generate and expect Unicode strings, that is, characters with high ordinal Unicode

values (> 255) will be encoded as such characters, and likewise such characters are decoded as-is, no changes to them will be done, except "(re-)interpreting" them as Unicode codepoints or Unicode characters, respectively (to Perl, these are the same thing in strings unless you do funny/weird/dumb stuff).

This is useful when you want to do the encoding yourself (e.g. when you want to have UTF-16 encoded JSON texts) or when some other layer does the encoding for you (for example, when printing to a terminal using a filehandle that transparently encodes to UTF-8 you certainly do NOT want to UTF-8 encode your data first and have Perl encode it another time).

=item C<utf8> flag enabled

If the C<utf8>-flag is enabled, C<encode>/C<decode> will encode all characters using the corresponding UTF-8 multi-byte sequence, and will expect your input strings to be encoded as UTF-8, that is, no "character" of the input string must have any value > 255, as UTF-8 does not allow that.

The C<utf8> flag therefore switches between two modes: disabled means you will get a Unicode string in Perl, enabled means you get an UTF-8 encoded octet/binary string in Perl.

=item C<latin1> or C<ascii> flags enabled

With C<latin1> (or C<ascii>) enabled, C<encode> will escape characters with ordinal values > 255 (> 127 with C<ascii>) and encode the remaining characters as specified by the C<utf8> flag.

If C<utf8> is disabled, then the result is also correctly encoded in those character sets (as both are proper subsets of Unicode, meaning that a Unicode string with all character values < 256 is the same thing as a ISO-8859-1 string, and a Unicode string with all character values < 128 is the same thing as an ASCII string in Perl).

If C<utf8> is enabled, you still get a correct UTF-8-encoded string, regardless of these flags, just some more characters will be escaped using C<\uXXXX> then before.

Note that ISO-8859-1-I<encoded> strings are not compatible with UTF-8 encoding, while ASCII-encoded strings are. That is because the ISO-8859-1 encoding is NOT a subset of UTF-8 (despite the ISO-8859-1 I<codeset> being a subset of Unicode), while ASCII is.

Surprisingly, C<decode> will ignore these flags and so treat all input

values as governed by the `C<utf8>` flag. If it is disabled, this allows you to decode ISO-8859-1- and ASCII-encoded strings, as both strict subsets of Unicode. If it is enabled, you can correctly decode UTF-8 encoded strings.

So neither `C<latin1>` nor `C<ascii>` are incompatible with the `C<utf8>` flag - they only govern when the JSON output engine escapes a character or not.

The main use for `C<latin1>` is to relatively efficiently store binary data as JSON, at the expense of breaking compatibility with most JSON decoders.

The main use for `C<ascii>` is to force the output to not contain characters with values > 127 , which means you can interpret the resulting string as UTF-8, ISO-8859-1, ASCII, KOI8-R or most about any character set and 8-bit-encoding, and still get the same data structure back. This is useful when your channel for JSON transfer is not 8-bit clean or the encoding might be mangled in between (e.g. in mail), and works because ASCII is a proper subset of most 8-bit and multibyte encodings in use in the world.

=back

=head1 BACKWARD INCOMPATIBILITY

Since version 2.90, stringification (and string comparison) for `C<JSON::true>` and `C<JSON::false>` has not been overloaded. It shouldn't matter as long as you treat them as boolean values, but a code that expects they are stringified as "true" or "false" doesn't work as you have expected any more.

```
if (JSON::true eq 'true') { # now fails
```

```
    print "The result is $JSON::true now."; # => The result is
1 now.
```

And now these boolean values don't inherit `JSON::Boolean`, either. When you need to test a value is a JSON boolean value or not, use `C<JSON::is_bool>` function, instead of testing the value inherits a particular boolean class or not.

=head1 BUGS

Please report bugs on backend selection and additional features this module provides to RT or GitHub issues for this module:

L<<https://rt.cpan.org/Public/Dist/Display.html?Queue=JSON>>

L<<https://github.com/makamaka/JSON/issues>>

As for bugs on a specific behavior, please report to the author of the backend module you are using.

As for new features and requests to change common behaviors, please ask the author of JSON::XS (Marc Lehmann, E<lt>schmorp[at]schmorp.deE<gt>) first, by email (important!), to keep compatibility among JSON.pm backends.

=head1 SEE ALSO

L<JSON::XS>, L<Cpanel::JSON::XS>, L<JSON::PP> for backends.

L<JSON::MaybeXS>, an alternative that prefers Cpanel::JSON::XS.

C<RFC4627>(L<http://www.ietf.org/rfc/rfc4627.txt>)

RFC7159

(L<http://www.ietf.org/rfc/rfc7159.txt>)

RFC8259 (L<http://www.ietf.org/rfc/rfc8259.txt>)

=head1 AUTHOR

Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>

JSON::XS was written by Marc Lehmann E<lt>schmorp[at]schmorp.deE<gt>

The release of this new version owes to the courtesy of Marc Lehmann.

=head1 CURRENT MAINTAINER

Kenichi Ishigaki, E<lt>ishigaki[at]cpan.orgE<gt>

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=cut

Found in path(s):

* /libjson-perl-4-02000-orig-1-tar-gz/JSON-4.02/lib/JSON.pm

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```

use strict;
use warnings;
use Benchmark qw( cmpthese timethese );

our $VERSION = '1.00';

my $wanttime = $ARGV[1] || 5;

use JSON qw( -support_by_pp -no_export ); # for JSON::PP::Boolean inheritance
use JSON::PP ();
use JSON::XS ();
use utf8;

my $pp = JSON::PP->new->utf8;
my $xs = JSON::XS->new->utf8;

local $/;

my $json = <>;
my $perl = JSON::XS::decode_json $json;
my $result;

printf( "JSON::PP %s\n", JSON::PP->VERSION );
printf( "JSON::XS %s\n", JSON::XS->VERSION );

print "-----\n";
print "->encode()\n";
print "-----\n";

$result = timethese( -$wanttime,
    {
        'JSON::PP' => sub { $pp->encode( $perl ) },
        'JSON::XS' => sub { $xs->encode( $perl ) },
    },
    'none'
);
cmpthese( $result );

print "-----\n";
print "->pretty->canonical->encode()\n";
print "-----\n";

$pp->pretty->canonical;
$xs->pretty->canonical;

$result

```

```

= timethese( -$wanttime,
{
    'JSON::PP' => sub { $pp->encode( $perl ) },
    'JSON::XS' => sub { $xs->encode( $perl ) },
},
'none'
);
cmpthese( $result );

print "-----\n";

__END__

=pod

=head1 SYNOPSIS

    bench_encode.pl json-file
# or
    bench_encode.pl json-file minimum-time

=head1 DESCRIPTION

L<JSON::PP> and L<JSON::XS> encoding benchmark.

=head1 AUTHOR

makamaka

=head1 LISENCE

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Found in path(s):
* /libjson-perl-4-02000-orig-1-tar-gz/JSON-4.02/eg/bench_encode.pl
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---
abstract: 'JSON (JavaScript Object Notation) encoder/decoder'
author:
- 'Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>'
build_requires:
    ExtUtils::MakeMaker: '0'
configure_requires:

```

ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>
version: '1.4'
name: JSON
no_index:
directory:
- t
- inc
recommends:
JSON::XS: '2.34'
requires:
Test::More: '0'
resources:
bugtracker: <https://github.com/makamaka/JSON/issues>
repository: <https://github.com/makamaka/JSON>
version: '4.02'
x_serialization_backend: 'CPAN::Meta::YAML version 0.012'

Found in path(s):

* /libjson-perl-4-02000-orig-1-tar-gz/JSON-4.02/META.yml

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use strict;
use warnings;
use Benchmark qw(cmpthese timethese);

our \$VERSION = '1.00';

my \$wanttime = \$ARGV[1] || 5;

use JSON qw(-support_by_pp -no_export); # for JSON::PP::Boolean inheritance
use JSON::PP ();
use JSON::XS ();
use utf8;

my \$pp = JSON::PP->new->utf8;
my \$xs = JSON::XS->new->utf8;

local \$/;

my \$json = <>;
my \$perl = JSON::XS::decode_json \$json;
my \$result;


```
printf( "JSON::PP %s\n", JSON::PP->VERSION );
printf( "JSON::XS %s\n", JSON::XS->VERSION );
```

```
print "-----\n";
print "->decode()\n";
print "-----\n";
```

```
$result = timethese( -$wanttime,
    {
        'JSON::PP' => sub { $pp->decode( $json ) },
        'JSON::XS' => sub { $xs->decode( $json ) },
    },
    'none'
);
cmpthese( $result );
```

```
print "-----\n";
```

```
__END__
```

```
=pod
```

```
=head1 SYNOPSIS
```

```
bench_decode.pl json-file
# or
bench_decode.pl json-file
minimum-time
```

```
=head1 DESCRIPTION
```

L<JSON::PP> and L<JSON::XS> decoding benchmark.

```
=head1 AUTHOR
```

makamaka

```
=head1 LISENCE
```

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```
=cut
```

Found in path(s):

1.299 libcommon-sense-perl 3.74-2build6

1.299.1 Available under license :

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1.300 libksba 1.3.5-2ubuntu0.20.04.2

1.300.1 Available under license :

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Version 3, 29 June 2007

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1.301 python-setuptools 45.2.0-1ubuntu0.1

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

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

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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
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now	PSF		yes

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2.1.2	2.1.1	2002	PSF	yes
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2.2 and above	2.1.1	2001-now		
PSF	yes			

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```
python -m validate_pyproject.pre_compile --output-dir=setuputils/config/_validate_pyproject --enable-plugins  
setuputils.distutils --very-verbose
```

Please avoid changing it manually.

You can report issues or suggest changes directly to `validate-pyproject`
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- <https://github.com/abravalheri/validate-pyproject/issues>

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`fastjsonschema`
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`validate-pyproject`

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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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D3DES (V5.09) -

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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1.307 libdata-dump-perl 1.23-1

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1.308 libnet-smtp-ssl-perl 1.04-1

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1.309 libcurses-ui-perl 0.9609-1

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1.310 libhtml-format-perl 2.12-1

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1.311 libmnl 1.0.4-2

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Upstream-Contact: Pablo Neira Ayuso <pablo@netfilter.org>

Source: <http://www.netfilter.org/projects/libmnl/files>

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1.312 libhttp-negotiate-perl 6.01-1

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Source: <https://metacpan.org/release/HTTP-Negotiate>

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The "UK English Wordlist With Frequency Classification" is also in the Public Domain:

Date: Sat, 08 Jul 2000 20:27:21

+0100

From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

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> Wordlist With Frequency Classification" word list as it seems to
> be lacking any copyright notice.

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"copyright" was avoided. Locally-written documentation was one
source. An earlier version of the list resided in a filespace called
PUBLIC on the University mainframe, because it was considered public
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Date: Tue, 11 Jul 2000 19:31:34 +0100

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The 35 level includes frequency classes 2-6 and words appearing in at
least 11 of 12 dictionaries as indicated in the 12Dicts package. All
words from the 12Dicts package have had likely inflections added via
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<kevina@users.sourceforge.net>

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Alan Beale <biljir@pobox.com> also deserves special credit as he has,

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

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

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

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

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

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License.

Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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

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

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X-Debianized-By: Thibaut Paumard <paumard@users.sourceforge.net>

X-Debianized-Date: Wed, 06 Feb 2008 10:51:16 +0100

X-Source-Downloaded-From:

<http://intgat.tigress.co.uk/rmy/uml/zerofree-1.0.1.tgz>

X-Upstream-Author: Ron M. Yorston <rmy@tigress.co.uk>

Files: *

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1.315 libwww-robotrules-perl 6.02-1

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Upstream-Name: WWW-RobotRules
Upstream-Contact: Gisle Aas <gisle@activestate.com>
Source: <https://metacpan.org/release/WWW-RobotRules>

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1.316 npth 1.6-1

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Version 2.1, February 1999

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a

portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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

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

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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.

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

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Upstream-Name: nPth

Upstream-Contact: Werner Koch <wk@gnupg.org>

Source: <ftp://ftp.gnupg.org/gcrypt/npth/>

Files: *

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Files: debian/*

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1.317 mpfr 4.0.2-1

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Version 3, 29 June 2007

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1.319 libpkit 0.23.20-1ubuntu0.1

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1.320 argon2 0~20171227-0.2

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1.321 linux-kernel 5.4.0-146.163

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```
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/* nicstar.c v0.22 Jawaidd Bazyar (bazyar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaidd Bazyar, Interlink Advertising Services Inc.

* <http://www.hypermall.com/>

* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

* interrupts us (except possibly for removal/insertion of the cable?)

* 10/4/97 - began heavy inline documentation of the code. Corrected typos

* and spelling mistakes.

- * 10/5/97 - added code to handle PHY interrupts, disable PHY on
- * loss of link, and correctly re-enable PHY when link is
- * re-established. (put back CFG_PHYIE)
- *
- * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
- *
- * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
- *
- * Linux driver for the IDT77201 NICStAR PCI ATM controller.
- * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
- * see init_nicstar() for PHY initialization to change this. This driver
- * expects the Linux ATM stack to support scatter-gather
- lists
- * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
- *
- * Implementing minimal-copy of received data:
- * IDT always receives data into a small buffer, then large buffers
- * as needed. This means that data must always be copied to create
- * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
- * Fix is simple: make large buffers large enough to hold entire
- * SDU, and leave <small_buffer_data> bytes empty at the start. Then
- * copy small buffer contents to head of large buffer.
- * Trick is to avoid fragmenting Linux, due to need for a lot of large
- * buffers. This is done by 2 things:
- * 1) skb->destructor / skb->atm.recycle_buffer
- * combined, allow nicstar_free_rx_skb to be called to
- * recycle large data buffers
- * 2) skb_clone of received buffers
- * See nicstar_free_rx_skb and linearize_buffer for implementation
- * details.
- *
- *
- *
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*

* M. Welsh, 6 July 1996

*

*

*/

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

The following list of people, sorted by last name, have contributed
code or patches to this implementation of sudo since I began
maintaining it in 1993. This list is known to be incomplete--if
you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane

Cheloha, Scott
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
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
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim

Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbess, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
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
Pasteleurs, Frederic
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
Sanders, Miguel
Sasaki, Kan
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.
Spradling, Michael
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary

Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro
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
Puente, Enol
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

1.323 free-type 2.10.1-2ubuntu0.3

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#
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
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src/pcf/pcferror.h
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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
#
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-- vile: txtmode file-encoding=utf-8
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-- vile:txtmode fc=72
-- \$Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp \$
Upstream source <https://invisible-island.net/ncurses/ncurses.html>
This package is used for testing builds of ncurses.

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

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-- vile: txtmode file-encoding=utf-8

Upstream source <https://invisible-island.net/ncurses/ncurses-examples.html>

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

Files: *

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-- vile: txtmode file-encoding=utf-8

1.332 gpt-fdisk 1.0.5-1

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1.334 zstd 1.5.5

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```
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```

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

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed

for everyone's
free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

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

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

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

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

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

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

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

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and

distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

the scope of this License.

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

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

This option is useful when you wish to copy part of the code of the

Library into a program that is not a library.

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

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

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

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

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

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

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

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials

specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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

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

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

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impose that choice.

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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Each

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

<one line to give the library's name and a brief idea of what it does.>
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You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

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

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

Here is a sample; alter the names:

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

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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

For example, if you distribute copies of such a program, whether

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

Developers that use the GNU GPL protect your rights with two steps:

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assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

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

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

ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

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

TERMS AND CONDITIONS

0. Definitions.

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

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

"The Program" refers to any copyrightable work licensed under this

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

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

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

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

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

1. Source Code.

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

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

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major

Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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

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

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

2. Basic Permissions.

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and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed;

section 10

makes it unnecessary.

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4. Conveying Verbatim Copies.

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

5. Conveying Modified Source Versions.

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

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

b) The work must carry prominent notices stating that it is

released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

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

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

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

6. Conveying Non-Source Forms.

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

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

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as

long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the

product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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

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

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

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

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1.339 open-vm-tools 11.3.0-

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```
>>> freebsd-base64-4.8
>>>
unicode-5.0
```

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```
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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 $ /
This work is part of OpenLDAP Software <http://www.openldap.org/>.
```

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>>> unicode-5.0

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1.341 kerberos 1.17-6ubuntu4.4

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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/iprof_hdr.h
kadmin/server/iprof_svc.c
lib/kdb/iprof.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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Contributors

In chronological order:

* victor.vde <<http://code.google.com/u/victor.vde/>>

* HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

* NTLM-authenticated HTTPSConnectionPool

* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>

* Client-verified SSL certificates for HTTPSConnectionPool

* Response gzip and deflate encoding support

* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>

* Non-multipart encoding for POST requests

* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>

* Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>

* Bugfixes, suggestions, Requests integration

* georgemarshall <<https://github.com/georgemarshall>>

* Bugfixes, Improvements and Test

coverage

* Thomas Kluyver <thomas@kluyver.me.uk>

* Python 3 support

* brandon-rhodes <<http://rhodesmill.org/brandon>>

* Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>

* IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>

* Support for explicitly closing pooled connections

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

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

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

- * Marc Schlaich <marc.schlaich@gmail.com>
- * Various bugfixes and test improvements.

- * Bryce Boe <bbzbryce@gmail.com>
- * Correct six.moves conflict
- * Fixed pickle support of some exceptions

- * Boris Figovsky <boris.figovsky@ravellosystems.com>
- * Allowed to skip SSL hostname verification

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

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

- * Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- * Fixed a race condition

- * Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- * Added HTTPS (CONNECT) proxy support

- * Stephen Holsapple <sholsapp@gmail.com>
- * Added abstraction for granular control of request fields

- * Martin von Gagern <Martin.vGagern@gmx.net>
- * Support for non-ASCII header parameters

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- * tlynn <https://github.com/tlynn>
- * Respect the warning preferences at import.

- * David D. Riddle <ddriddle@illinois.edu>
- * IPv6 bugfixes in testsuite

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- * Wolfgang Richter <wolfgang.richter@gmail.com>
- * Bugfix related to loading full certificate chains with PyOpenSSL backend.
- * Mike Miller <github@mikeage.net>
- * Logging improvements to include the HTTP(S) port when opening a new connection
- * Ioannis Tziakos <mail@itziakos.gr>
- * Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- * Update appveyor tox setup to use the 64bit python.
- * Akamai
(through Jess Shapiro) <jshapiro@akamai.com>
- * Ongoing maintenance; 2017-2018
- * Dominique Leuenberger <dimstar@opensuse.org>
- * Minor fixes in the test suite
- * Will Bond <will@wbond.net>
- * Add Python 2.6 support to ``contrib.securetransport``
- * Aleksei Alekseev <alekseev.yeskela@gmail.com>
- * using auth info for socks proxy
- * Chris Wilcox <git@crwilcox.com>
- * Improve contribution guide
- * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
- * Bruce Merry <https://www.brucemerry.org.za>
- * Fix leaking exceptions when system calls are interrupted with zero timeout
- * Hugo van Kemenade <https://github.com/hugovk>
- * Drop support for EOL Python 2.6
- * Tim Bell <https://github.com/timb07>
- * Bugfix for responses with Content-Type: message/* logging warnings
- * Justin Bramley <https://github.com/jbramleycl>
- * Add ability to handle multiple Content-Encodings
- * Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
- * Remove Authorization header
regardless of case when redirecting to cross-site
- * James Meickle <https://permadeath.com/>
- * Improve handling of Retry-After header
- * Chris Jerdonek <chris.jerdonek@gmail.com>

* Remove a spurious `TypeError` from the exception chain inside `HTTPConnectionPool._make_request()`, also for `BaseExceptions`.

* [Your name or handle] <[email or website]>

* [Brief summary of your changes]

1.343 procps 3.3.16-1ubuntu2.4

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inline

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

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

Copyright (C) <year> <name of author>

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

If the program is interactive, make it output a short notice like this

when it starts in an interactive mode:

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

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

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

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

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

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1.346 perl 5.30.0-9ubuntu0.5

1.346.1 Available under license :

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?RCS:

?MAKE:i_quadmath: Inhdr

?MAKE: -pick add \$@ %<

?S:i_quadmath:

?S: This variable conditionally defines I_QUADMATH, which indicates

?S: to the C program that it should include <quadmath.h>.

?S:.

?C:I_QUADMATH:

?C: This symbol, if defined, indicates that <quadmath.h> exists and

?C: should be included.

```
?C:.
?H:#$i_quadmath I_QUADMATH /**/
?H:.
?LINT:set i_quadmath
: see if this is a quadmath.h system
set quadmath.h i_quadmath
eval $inhdr
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_quadmath.U

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

```
?RCS: $Id$
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtold_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold_l:
?S: This variable conditionally defines the HAS_STRTOLD_L symbol, which
?S: indicates to the C program that the strtold_l() routine is available.
?S:.
?C:HAS_STRTOLD_L:
?C: This symbol, if defined, indicates that the strtold_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold_l HAS_STRTOLD_L /**/
?H:.
?LINT:set d_strtold_l
: see if strtold_l exists
set strtold_l d_strtold_l
eval $inlibc
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/threads/d_strtold_l.U

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```
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?RCS: as specified in the README file that comes with the distribution.
?RCS:
?MAKE:i_fenv: Inhdr
?MAKE: -pick add $@ %<
?S:i_fenv:
?S: This variable conditionally defines the I_FENV symbol, which
?S: indicates to the C program that <fenv.h> exists and should
```

?S: be included.

?S:.

?C:I_FENV:

?C: This symbol, if defined, indicates to the C program that it should

?C: include <fenv.h> to get the floating point environment definitions.

?C:.

?H:#\$i_fenv I_FENV /**/

?H:.

?LINT:set i_fenv

: see if this is a fenv.h system

set fenv.h i_fenv

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_fenv.U

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?RCS:

?MAKE:d_acosh: Inlibc

?MAKE: -pick add \$@ %<

?S:d_acosh:

?S: This variable conditionally defines the HAS_ACOSH symbol, which

?S: indicates to the C program that the acosh() routine is available.

?S:.

?C:HAS_ACOSH:

?C: This symbol, if defined, indicates that the acosh routine is

?C: available to do the inverse hyperbolic cosine function.

?C:.

?H:#\$d_acosh HAS_ACOSH /**/

?H:.

?LINT:set d_acosh

: see if acosh exists

set acosh d_acosh

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_acosh.U

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?RCS:

?MAKE:d_rint: Inlibc

?MAKE: -pick add \$@ %<

?S:d_rint:

?S: This variable conditionally defines the HAS_RINT symbol, which

?S: indicates to the C program that the rint() routine is available.

?S:.

?C:HAS_RINT:

?C: This symbol, if defined, indicates that the rint routine is

?C: available to return the nearest integral value to x as double

?C: using the current rounding mode.

?C:.

?H:#\$d_rint HAS_RINT /**/

?H:.

?LINT:set d_rint

: see if rint exists

set rint d_rint

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_rint.U

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?RCS: \$Id: i_sysutname.U,v \$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_sysutname: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_sysutname:

?S: This variable conditionally defines the I_SYSUTSNAME symbol,

?S: and indicates whether a C program should include <sys/utname.h>.

?S:.

?C:I_SYSUTSNAME:

?C: This symbol, if defined, indicates that <sys/utname.h> exists and

?C: should be included.

?C:.

?H:#\$i_sysutname I_SYSUTSNAME /**/

?H:.

?LINT:set i_sysutname

: see if this is a sys/utname.h system

set sys/utname.h i_sysutname

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysutname.U

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```
?RCS:
?MAKE:i_stdint: Inhdr
?MAKE: -pick add $@ %<
?S:i_stdint:
?S: This variable conditionally defines the I_STDINT symbol, which
?S: indicates to the C program that <stdint.h> exists and should
?S: be included.
?S:.
?C:I_STDINT:
?C: This symbol, if defined, indicates that <stdint.h> exists and
?C: should be included.
?C:.
?H:#$i_stdint I_STDINT /**/
?H:.
?LINT:set i_stdint
: see if stdint is available
set stdint.h i_stdint
eval $inhdr
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_stdint.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: baserev.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:24 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:baserev: Null
?MAKE: -pick wipe $@ %<
?S:baserev:
?S: The base revision level of this package, from the .package file.
?S:.
: set the base revision
baserev=<BASEREV>
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/U/baserev.U
```

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

```
/*
* $Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram $
*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* Original Author: unknown, got this off net.sources
*
* $Log: getopt.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:40 ram
* patch16: created
*
*/
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/getopt.C

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

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS:
?MAKE:d_fchdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchdir:
?S: This variable conditionally defines the HAS_FCHDIR symbol, which
?S: indicates to the C program that the fchdir() routine is available.
?S:.
?C:HAS_FCHDIR:
?C: This symbol, if defined, indicates that the fchdir routine is
?C: available to change directory using a file descriptor.
?C:.
?H:#$d_fchdir HAS_FCHDIR /**/
?H:.
?LINT:set d_fchdir
: see if fchdir exists
set fchdir d_fchdir
eval $inlibc
```


Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fchdir.U

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?RCS:

?MAKE:d_hypot: Inlibc

?MAKE: -pick add \$@ %<

?S:d_hypot:

?S: This variable conditionally defines HAS_HYPOT if hypot is available

?S: for numerically stable hypotenuse function.

?S:.

?C:HAS_HYPOT:

?C: This symbol, if defined, indicates that the hypot routine is

?C: available to do the hypotenuse function.

?C:.

?H:#\$d_hypot HAS_HYPOT /**/

?H:.

?LINT:set d_hypot

: see if hypot exists

set hypot d_hypot

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_hypot.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS:

?MAKE:d_isfinitel: Inlibc

?MAKE: -pick add \$@ %<

?S:d_isfinitel:

?S: This variable conditionally defines the HAS_ISFINITEL symbol, which

?S: indicates to the C program that the isfinitel() routine is available.

?S:.

?C:HAS_ISFINITEL:

?C: This symbol, if defined, indicates that the isfinitel routine is

?C: available to check whether a long double is finite.

?C: (non-infinity non-NaN).

?C:.

?H:#\$d_isfinitel HAS_ISFINITEL /**/

?H:.

?LINT:set d_isfinitel

: see if isfinitel exists

set isfinitel d_isfinitel

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_isfinitel.U

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?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS:

?MAKE:d_socketmark: Inlibc

?MAKE: -pick add \$@ %<

?S:d_socketmark:

?S: This variable conditionally defines the HAS_SOCKETMARK symbol, which

?S: indicates to the C program that the socketmark() routine is available.

?S:.

?C:HAS_SOCKETMARK:

?C: This symbol, if defined, indicates that the socketmark routine is

?C: available to test whether a socket is at the out-of-band mark.

?C:.

?H:#\$d_socketmark HAS_SOCKETMARK /**/

?H:.

?LINT:set d_socketmark

: see if socketmark exists

set socketmark d_socketmark

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_socketmark.U

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?RCS:

?MAKE:d_truncl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_truncl:

?S: This variable conditionally defines the HAS_TRUNCL symbol, which

?S: indicates to the C program that the truncl() routine is available

?S: to round long doubles towards zero. If copysignl is also present,

?S: we can emulate modfl.

?S:.

?C:HAS_TRUNC :

?C: This symbol, if defined, indicates that the trunc routine is

?C: available. If copysignl is also present we can emulate modfl.

?C:.

?H:#\$d_trunc HAS_TRUNC /**/

?H:.

?LINT:set d_trunc

: see if trunc exists

set trunc d_trunc

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_trunc.U

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?RCS:

?MAKE:d_lrint: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lrint:

?S: This variable conditionally defines the HAS_LRINT symbol, which

?S: indicates to the C program that the lrint() routine is available

?S: to return the integral value closest to a double (according

?S: to the current rounding mode).

?S:.

?C:HAS_LRINT:

?C: This symbol, if defined, indicates that the lrint routine is

?C: available to return the integral value closest to a double

?C: (according to the current rounding mode).

?C:.

?H:#\$d_lrint HAS_LRINT /**/

?H:.

?LINT:set d_lrint

: see if lrint exists

set lrint d_lrint

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lrint.U

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?RCS:

?MAKE:d_lroundl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lroundl:

?S: This variable conditionally defines the HAS_LROUNDL symbol, which

?S: indicates to the C program that the lroundl() routine is available

?S: to return the integral value nearest to x away from zero.

?S:.

?C:HAS_LROUNDL:

?C: This symbol, if defined, indicates that the lroundl routine is

?C: available to return the nearest integral value away from zero of

?C: the long double argument value.

?C:.

?H:#\$d_lroundl HAS_LROUNDL /**/

?H:.

?LINT:set d_lroundl

: see if lroundl exists

set lroundl d_lroundl

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lroundl.U

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

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_towupper: Inlibc

?MAKE: -pick add \$@ %<

?S:d_towupper:

?S: This variable conditionally defines the HAS_TOWUPPER symbol, which

?S: indicates to the C program that the towupper() routine is available.

?S:.

?C:HAS_TOWUPPER:

?C: This symbol, if defined, indicates that the towupper () routine is

?C: available to do case conversion.

?C:.

?H:#\$d_towupper HAS_TOWUPPER /**/

?H:.

?LINT:set d_towupper

: see if towupper exists

set towupper d_towupper

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_towupper.U

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

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS:
?MAKE:d_setproctitle: Inlibc
?MAKE: -pick add $@ %<
?S:d_setproctitle:
?S: This variable conditionally defines the HAS_SETPROCTITLE symbol,
?S: which indicates to the C program that the setproctitle() routine
?S: is available.
?S:.
?C:HAS_SETPROCTITLE:
?C: This symbol, if defined, indicates that the setproctitle routine is
?C: available to set process title.
?C:.
?H:#$d_setproctitle HAS_SETPROCTITLE /**/
?H:.
?LINT:set d_setproctitle
: see if setproctitle exists
set setproctitle d_setproctitle
eval $inlibc
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_setproctitle.U

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

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strnlen: Inlibc
?MAKE: -pick add $@ %<
?S:d_strnlen:
?S: This variable conditionally defines the HAS_STRNLEN symbol, which
?S: indicates to the C program that the strnlen () routine is available.
?S:.
?C:HAS_STRNLEN:
?C: This symbol, if defined, indicates that the strnlen () routine is
?C: available to check the length of a string up to a maximum.
?C:.
```

?H:#\$d_strnlen HAS_STRNLEN /**/

?H:.

?LINT:set d_strnlen

: see if strnlen exists

set strnlen d_strnlen

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strnlen.U

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?RCS: \$Id: i_shadow.U,v \$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_shadow: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_shadow:

?S: This variable conditionally defines the I_SHADOW symbol, and indicates

?S: whether a C program should include <shadow.h>.

?S:.

?C:I_SHADOW:

?C: This symbol, if defined, indicates that <shadow.h> exists and

?C: should be included.

?C:.

?H:#\$i_shadow I_SHADOW /**/

?H:.

?LINT:set i_shadow

: see if this is a shadow.h system

set shadow.h i_shadow

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_shadow.U

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?RCS:

?MAKE:d_fpgetround: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fpgetround:

?S: This variable conditionally defines HAS_FPGETROUND if fpgetround()

?S: is available to get the floating point rounding mode.

?S:.

?C:HAS_FPGETROUND:

?C: This symbol, if defined, indicates that the fpgetround routine is

?C: available to get the floating point rounding mode.

?C:.

?H:#\$d_fpgetround HAS_FPGETROUND /**/

?H:.

?LINT:set d_fpgetround

: see if fpgetround exists

set fpgetround d_fpgetround

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fpgetround.U

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

/*

* \$Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram \$

*

* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

*

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* as specified in the README file that comes with the distribution.

* You may reuse parts of this distribution only within the terms of

* that same Artistic Licence; a copy of which may be found at the root

* of the source tree for dist 4.0.

*

* \$Log: rename.C,v \$

* Revision 3.0.1.1 1994/01/24 13:58:42 ram

* patch16: created

*

*/

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/rename.C

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

?RCS: \$Id: i_fp_class.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

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?RCS:

?MAKE:i_fp_class: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_fp_class:

?S: This variable conditionally defines the I_FP_CLASS symbol, and indicates

?S: whether a C program should include <fp_class.h>.

?S:.
?C:I_FP_CLASS:
?C: This symbol, if defined, indicates that <fp_class.h> exists and
?C: should be included.

?C:.
?H:#\$i_fp_class I_FP_CLASS /**/
?H:.
?LINT:set i_fp_class
: see if this is a fp_class.h system
set fp_class.h i_fp_class
eval \$inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_fp_class.U
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?RCS:
?MAKE:d_lround: Inlibc
?MAKE: -pick add \$@ %<
?S:d_lround:
?S: This variable conditionally defines the HAS_LROUND symbol, which
?S: indicates to the C program that the lround() routine is available
?S: to return the integral value nearest to x.

?S:.
?C:HAS_LROUND:
?C: This symbol, if defined, indicates that the lround routine is
?C: available to return the nearest integral value.

?C:.
?H:#\$d_lround HAS_LROUND /**/
?H:.
?LINT:set d_lround
: see if lround exists
set lround d_lround
eval \$inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lround.U
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?RCS:


```
?MAKE:d_inetntop: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetntop:
?S: This variable conditionally defines the HAS_INETNTOP symbol,
?S: which indicates to the C program that the inet_ntop() function
?S: is available.
?S:.
?C:HAS_INETNTOP:
?C: This symbol, if defined, indicates that the inet_ntop() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#$d_inetntop HAS_INETNTOP /**/
?H:.
?LINT:set d_inetntop
: see if inet_ntop exists
set inet_ntop d_inetntop
eval $inlibc
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_inetntop.U
No license file was found, but licenses were detected in source scan.
```

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```
?RCS:
?MAKE:d_lgamma_r: Inlibc
?MAKE: -pick add $@ %<
?S:d_lgamma_r:
?S: This variable conditionally defines the HAS_LGAMMA_R symbol, which
?S: indicates to the C program that the lgamma_r() routine is available
?S: for the log gamma function, without using the global signgam variable.
?S:.
?C:HAS_LGAMMA_R:
?C: This symbol, if defined, indicates that the lgamma_r routine is
?C: available to do the log gamma function without using the global
?C: signgam variable.
?C:.
?H:#$d_lgamma_r HAS_LGAMMA_R /**/
?H:.
?LINT:set d_lgamma_r
: see if lgamma_r exists
set lgamma_r d_lgamma_r
eval $inlibc
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lgamma_r.U
No license file was found, but licenses were detected in source scan.
```

```

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ualarm: Inlibc
?MAKE: -pick add $@ %<
?S:d_ualarm:
?S: This variable conditionally defines the HAS_UALARM symbol, which
?S: indicates to the C program that the ualarm() routine is available.
?S:.
?C:HAS_UALARM:
?C: This symbol, if defined, indicates that the ualarm routine is
?C: available to do alarms with microsecond granularity.
?C:.
?H:#$d_ualarm HAS_UALARM /**/
?H:.
?LINT:set d_ualarm
: see if ualarm exists
set ualarm d_ualarm
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_ualarm.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Nothing.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:09 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply an empty target for the private
?X: Makefile built by metaconfig to order the units.
?X:
?MAKE:Nothing: Head

```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/U/Nothing.U

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?RCS:

?MAKE:d_ilogb: Inlibc

?MAKE: -pick add \$@ %<

?S:d_ilogb:

?S: This variable conditionally defines the HAS_ILOGB symbol, which

?S: indicates to the C program that the ilogb() routine is available

?S: for extracting the exponent of double x as a signed integer.

?S:.

?C:HAS_ILOGB:

?C: This symbol, if defined, indicates that the ilogb routine is

?C: available to get integer exponent of a floating-point value.

?C:.

?H:#\$d_ilogb HAS_ILOGB /**/

?H:.

?LINT:set d_ilogb

: see if ilogb exists

set ilogb d_ilogb

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_ilogb.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d_mkdtmp: Inlibc

?MAKE: -pick add \$@ %<

?S:d_mkdtmp:

?S: This variable conditionally defines the HAS_MKDTEMP symbol, which

?S: indicates to the C program that the mkdtmp() routine is available

?S: to exclusively create a uniquely named temporary directory.

?S:.

?C:HAS_MKDTEMP :

?C: This symbol, if defined, indicates that the mkdtmp routine is

?C: available to exclusively create a uniquely named temporary directory.

?C:.

?H:#\$d_mkdtmp HAS_MKDTEMP /**/

?H:.

?LINT:set d_mkdtemp

: see if mkdtemp exists

set mkdtemp d_mkdtemp

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_mkdtemp.U

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?RCS: \$Id: i_bfd.U,v \$

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?RCS:

?MAKE:i_bfd: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_bfd:

?S: This variable conditionally defines the I_BFD symbol, and

?S: indicates whether a C program can include <bfd.h>.

?S:.

?C:I_BFD:

?C: This symbol, if defined, indicates that <bfd.h> exists and

?C: can be included.

?C:.

?H:#\$i_bfd I_BFD /**/

?H:.

?LINT:set i_bfd

: see if this is a bfd.h system

set bfd.h i_bfd

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_bfd.U

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?RCS:

?MAKE:d_remquo: Inlibc

?MAKE: -pick add \$@ %<

?S:d_remquo:

?S: This variable conditionally defines the HAS_REMQUO symbol, which

?S: indicates to the C program that the remquo() routine is available.

?S:.

?C:HAS_REMQUO:

?C: This symbol, if defined, indicates that the remquo routine is

?C: available to return the remainder and part of quotient.

?C:.

?H:#\$d_remquo HAS_REMQUO /**/

?H:.

?LINT:set d_remquo

: see if remquo exists

set remquo d_remquo

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_remquo.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d_finite: Inlibc

?MAKE: -pick add \$@ %<

?S:d_finite:

?S: This variable conditionally defines the HAS_FINITE symbol, which

?S: indicates to the C program that the finite() routine is available.

?S:.

?C:HAS_FINITE:

?C: This symbol, if defined, indicates that the finite routine is

?C: available to check whether a double is finite (non-infinity non-NaN).

?C:.

?H:#\$d_finite HAS_FINITE /**/

?H:.

?LINT:set d_finite

: see if finite exists

set finite d_finite

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_finite.U

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

?RCS: \$Id\$

?RCS:

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?RCS:
 ?MAKE:d_copysign: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_copysign:
 ?S: This variable conditionally defines the HAS_COPYSIGN symbol, which
 ?S: indicates to the C program that the copysign() routine is available.
 ?S:..
 ?C:HAS_COPYSIGN:
 ?C: This symbol, if defined, indicates that the copysign routine is
 ?C: available to do the copysign function.
 ?C:..
 ?H:#\$d_copysign HAS_COPYSIGN /**/
 ?H:..
 ?LINT:set d_copysign
 : see if copysign exists
 set copysign d_copysign
 eval \$inlibc

Found in path(s):
 * /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_copysign.U
 No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
 ?RCS:
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 ?RCS:
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 ?RCS: License or the Artistic License, as specified in the README file.
 ?RCS:
 ?MAKE:d_strtold: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_strtold:
 ?S: This variable conditionally defines the HAS_STRTOLD symbol, which
 ?S: indicates to the C program that the strtold() routine is available.
 ?S:..
 ?C:HAS_STRTOLD:
 ?C: This symbol, if defined, indicates that the strtold routine is
 ?C: available to convert strings to long doubles.
 ?C:..
 ?H:#\$d_strtold HAS_STRTOLD /**/
 ?H:..
 ?LINT:set d_strtold
 : see if strtold exists
 set strtold d_strtold
 eval \$inlibc

Found in path(s):
 * /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strtold.U

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

```
?RCS: $Id: i_sysmount.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmount: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmount:
?S: This variable conditionally defines the I_SYSMOUNT symbol,
?S: and indicates whether a C program should include <sys/mount.h>.
?S:.
?C:I_SYS_MOUNT:
?C: This symbol, if defined, indicates that <sys/mount.h> exists and
?C: should be included.
?C:.
?H:#$i_sysmount I_SYS_MOUNT /**/
?H:.
?LINT:set i_sysmount
: see if this is a sys/mount.h system
set sys/mount.h i_sysmount
eval $inhdr
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysmount.U

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

```
?RCS: $Id: i_sysuio.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysuio: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysuio:
?S: This variable conditionally defines the I_SYSUIO symbol, and indicates
?S: whether a C program should include <sys/uio.h>.
?S:.
?C:I_SYSUIO:
?C: This symbol, if defined, indicates that <sys/uio.h> exists and
?C: should be included.
?C:.
?H:#$i_sysuio I_SYSUIO /**/
```

?H:.
?LINT:set i_sysuio
: see if this is a sys/uio.h system
set sys/uio.h i_sysuio
eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/modified/i_sysuio.U
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?RCS:

?MAKE:d_fdim: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fdim:

?S: This variable conditionally defines the HAS_FDIM symbol, which

?S: indicates to the C program that the fdim() routine is available.

?S:.

?C:HAS_FDIM:

?C: This symbol, if defined, indicates that the fdim routine is

?C: available to do the positive difference function.

?C:.

?H:#\$d_fdim HAS_FDIM /**/

?H:.

?LINT:set d_fdim

: see if fdim exists

set fdim d_fdim

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fdim.U
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?RCS:

?MAKE:d_tgamma: Inlibc

?MAKE: -pick add \$@ %<

?S:d_tgamma:

?S: This variable conditionally defines the HAS_TGAMMA symbol, which

?S: indicates to the C program that the tgamma() routine is available

?S: for the gamma function. See also d_lgamma.

?S:.

?C:HAS_TGAMMA:

?C: This symbol, if defined, indicates that the tgamma routine is

?C: available to do the gamma function. See also HAS_LGAMMA.

?C:.

?H:#\$d_tgamma HAS_TGAMMA /**/

?H:.

?LINT:set d_tgamma

: see if tgamma exists

set tgamma d_tgamma

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_tgamma.U

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?RCS:

?MAKE:d_atanh: Inlibc

?MAKE: -pick add \$@ %<

?S:d_atanh:

?S: This variable conditionally defines the HAS_ATANH symbol, which

?S: indicates to the C program that the atanh() routine is available.

?S:.

?C:HAS_ATANH:

?C: This symbol, if defined, indicates that the atanh routine is

?C: available to do the inverse hyperbolic tangent function.

?C:.

?H:#\$d_atanh HAS_ATANH /**/

?H:.

?LINT:set d_atanh

: see if atanh exists

set atanh d_atanh

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_atanh.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d_atolf: Inlibc

?MAKE: -pick add \$@ %<

?S:d_atolf:

?S: This variable conditionally defines the HAS_ATOLF symbol, which

?S: indicates to the C program that the atolf() routine is available.

?S:.

?C:HAS_ATOLF:

?C: This symbol, if defined, indicates that the atolf routine is

?C: available to convert strings into long doubles.

?C:.

?H:#\$d_atolf HAS_ATOLF /**/

?H:.

?LINT:set d_atolf

: see if atolf exists

set atolf d_atolf

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/atolf.U

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

?RCS: \$Id\$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_atoll: Inlibc

?MAKE: -pick add \$@ %<

?S:d_atoll:

?S: This variable conditionally defines the HAS_ATOLL symbol, which

?S: indicates to the C program that the atoll() routine is available.

?S:.

?C:HAS_ATOLL:

?C: This symbol, if defined, indicates that the atoll routine is

?C: available to convert strings into long longs.

?C:.

?H:#\$d_atoll HAS_ATOLL /**/

?H:.

?LINT:set d_atoll

: see if atoll exists

set atoll d_atoll

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/atoll.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_fstatfs : Inlibc

?MAKE: -pick add \$@ %<

?S:d_fstatfs:

?S: This variable conditionally defines the HAS_FSTATFS symbol, which

?S: indicates to the C program that the fstatfs() routine is available.

?S:.

?C:HAS_FSTATFS:

?C: This symbol, if defined, indicates that the fstatfs routine is

?C: available to stat filesystems by file descriptors.

?C:.

?H:#\$d_fstatfs HAS_FSTATFS /**/

?H:.

?LINT:set d_fstatfs

: see if fstatfs exists

set fstatfs d_fstatfs

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fstatfs.U

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

?RCS: \$Id\$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_finitel: Inlibc

?MAKE: -pick add \$@ %<

?S:d_finitel:

?S: This variable conditionally defines the HAS_FINITEL symbol, which

?S: indicates to the C program that the finitel() routine is available.

?S:.

?C:HAS_FINITEL:

?C: This symbol, if defined, indicates that the finitel routine is

?C: available to check whether a long double is finite

?C: (non-infinity non-NaN).

?C:.

?H:#\$d_finitel HAS_FINITEL /**/

?H:.

?LINT:set d_finitel

: see if finitel exists

set finitel d_finitel

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_finitel.U

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?RCS:

?MAKE:d_nextafter: Inlibc

?MAKE: -pick add \$@ %<

?S:d_nextafter:

?S: This variable conditionally defines HAS_NEXTAFTER if nextafter()

?S: is available to return the next machine representable double from

?S: x in direction y.

?S:.

?C:HAS_NEXTAFTER:

?C: This symbol, if defined, indicates that the nextafter routine is

?C: available to return the next machine representable double from

?C: x in direction y.

?C:.

?H:#\$d_nextafter HAS_NEXTAFTER /**/

?H:.

?LINT:set d_nextafter

: see if nextafter exists

set nextafter d_nextafter

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nextafter.U

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

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_erfc: Inlibc

?MAKE: -pick add \$@ %<

?S:d_erfc:

?S: This variable conditionally defines the HAS_ERFC symbol, which

?S: indicates to the C program that the erfc() routine is available.

?S:.

?C:HAS_ERFC:

?C: This symbol, if defined, indicates that the erfc routine is

?C: available to do the complementary error function.

?C:.

?H:#\$d_erfc HAS_ERFC /**/

?H:.

?LINT:set d_erfc

: see if erfc exists

set erfc d_erfc

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_erfc.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the WRITEME file.

?RCS:

?MAKE:d_writev: Inlibc

?MAKE: -pick add \$@ %<

?S:d_writev:

?S: This variable conditionally defines the HAS_WRITEV symbol, which

?S: indicates to the C program that the writev() routine is available.

?S:.

?C:HAS_WRITEV:

?C: This symbol, if defined, indicates that the writev routine is

?C: available to do scatter writes.

?C:.

?H:#\$d_writev HAS_WRITEV /**/

?H:.

?LINT:set d_writev

: see if writev exists

set writev d_writev

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_writev.U

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

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_nexttoward: Inlibc

?MAKE: -pick add \$@ %<

?S:d_nexttoward:

?S: This variable conditionally defines HAS_NEXTTOWARD if nexttoward()

?S: is available to return the next machine representable long double from

?S: x in direction y.

?S:.

?C:HAS_NEXTTOWARD:

?C: This symbol, if defined, indicates that the nexttoward routine is

?C: available to return the next machine representable long double from

?C: x in direction y.

?C:.

?H:#\$d_nexttoward HAS_NEXTTOWARD /**/

?H:.

?LINT:set d_nexttoward

: see if nexttoward exists

set nexttoward d_nexttoward

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nexttoward.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_getmnt: Inlibc

?MAKE: -pick add \$@ %<

?S:d_getmnt:

?S: This variable conditionally defines the HAS_GETMNT symbol, which

?S: indicates to the C program that the getmnt() routine is available

?S: to retrieve one or more mount info blocks by filename.

?S:.

?C:HAS_GETMNT:

?C: This symbol, if defined, indicates that the getmnt routine is

?C: available to get filesystem mount info by filename.

?C:.

?H:#\$d_getmnt HAS_GETMNT /**/

?H:.

?LINT:set d_getmnt

: see if getmnt exists

set getmnt d_getmnt

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getmnt.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d_isinfl: Inlibc
?MAKE: -pick add \$@ %<
?S:d_isinfl:
?S: This variable conditionally defines the HAS_ISINFL symbol, which
?S: indicates to the C program that the isinfl() routine is available.
?S:.
?C:HAS_ISINFL:
?C: This symbol, if defined, indicates that the isinfl routine is
?C: available to check whether a long double is an infinity.
?C:.
?H:#\$d_isinfl HAS_ISINFL /**/
?H:.
?LINT:set d_isinfl
: see if isinfl exists
set isinfl d_isinfl
eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_isinfl.U

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

?RCS: \$Id\$
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?RCS:
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?RCS:
?MAKE:d_strtoq: Inlibc
?MAKE: -pick add \$@ %<
?S:d_strtoq:
?S: This variable conditionally defines the HAS_STRTOQ symbol, which
?S: indicates to the C program that the strtoq() routine is available.
?S:.
?C:HAS_STRTOQ:
?C: This symbol, if defined, indicates that the strtoq routine is
?C: available to convert strings to long longs (quads).
?C:.
?H:#\$d_strtoq HAS_STRTOQ /**/
?H:.
?LINT:set d_strtoq
: see if strtoq exists
set strtoq d_strtoq
eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strtoq.U

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

```
?RCS: $Id: i_sysmode.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmode: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmode:
?S: This variable conditionally defines the I_SYSMODE symbol,
?S: and indicates whether a C program should include <sys/mode.h>.
?S:.
?C:I_SYSMODE:
?C: This symbol, if defined, indicates that <sys/mode.h> exists and
?C: should be included.
?C:.
?H:#$i_sysmode I_SYSMODE /**/
?H:.
?LINT:set i_sysmode
: see if this is a sys/mode.h system
set sys/mode.h i_sysmode
eval $inhdr
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysmode.U

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

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getaddrinfo: Inlibc
?MAKE: -pick add $@ %<
?S:d_getaddrinfo:
?S: This variable conditionally defines the HAS_GETADDRINFO symbol,
?S: which indicates to the C program that the getaddrinfo() function
?S: is available.
?S:.
?C:HAS_GETADDRINFO:
?C: This symbol, if defined, indicates that the getaddrinfo() function
?C: is available for use.
?C:.
```


?H:#\$d_getaddrinfo HAS_GETADDRINFO /**/

?H:.

?LINT:set d_getaddrinfo

: see if getaddrinfo exists

set getaddrinfo d_getaddrinfo

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getaddrinfo.U

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

?RCS: \$Id\$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_hasmntopt: Inlibc

?MAKE: -pick add \$@ %<

?S:d_hasmntopt:

?S: This variable conditionally defines the HAS_HASMNTOPT symbol, which

?S: indicates to the C program that the hasmntopt() routine is available

?S: to query the mount options of file systems.

?S:.

?C:HAS_HASMNTOPT:

?C: This symbol, if defined, indicates that the hasmntopt routine is

?C: available to query the mount options of file systems.

?C:.

?H:#\$d_hasmntopt HAS_HASMNTOPT /**/

?H:.

?LINT:set d_hasmntopt

: see if hasmntopt exists

set hasmntopt d_hasmntopt

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_hasmntopt.U

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

?RCS: \$Id: i_mntent.U,v \$

?RCS:

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?RCS:

?MAKE:i_mntent: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_mntent:

?S: This variable conditionally defines the I_MNTENT symbol, and indicates

?S: whether a C program should include <mntent.h>.

?S:.

?C:I_MNTENT:

?C: This symbol, if defined, indicates that <mntent.h> exists and

?C: should be included.

?C:.

?H:#\$i_mntent I_MNTENT /**/

?H:.

?LINT:set i_mntent

: see if this is a mntent.h system

set mntent.h i_mntent

eval \$inhdr

Found in path(s):

* /perl-5-30-0-origin-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_mntent.U

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?RCS:

?MAKE:d_fmax: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fmax:

?S: This variable conditionally defines the HAS_FMAX symbol, which

?S: indicates to the C program that the fmax() routine is available.

?S:.

?C:HAS_FMAX:

?C: This symbol, if defined, indicates that the fmax routine is

?C: available to do the maximum function.

?C:.

?H:#\$d_fmax HAS_FMAX /**/

?H:.

?LINT:set d_fmax

: see if fmax exists

set fmax d_fmax

eval \$inlibc

Found in path(s):

* /perl-5-30-0-origin-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fmax.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_unordered: Inlibc

?MAKE: -pick add \$@ %<

?S:d_unordered:

?S: This variable conditionally defines the HAS_UNORDERED symbol, which

?S: indicates to the C program that the unordered() routine is available.

?S:.

?C:HAS_UNORDERED:

?C: This symbol, if defined, indicates that the unordered routine is

?C: available to check whether two doubles are unordered

?C: (effectively: whether either of them is NaN)

?C:.

?H:#\$d_unordered HAS_UNORDERED /**/

?H:.

?LINT:set d_unordered

: see if unordered exists

set unordered d_unordered

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_unordered.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_strftime: Inlibc

?MAKE: -pick add \$@ %<

?S:d_strftime:

?S: This variable conditionally defines the HAS_STRFTIME symbol, which

?S: indicates to the C program that the strftime() routine is available.

?S:.

?C:HAS_STRFTIME:

?C: This symbol, if defined, indicates that the strftime routine is

?C: available to do time formatting.

?C:.

?H:#\$d_strftime HAS_STRFTIME /**/

?H:.

?LINT:set d_strftime

: see if strftime exists

set strftime d_strftime

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strftime.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_readv: Inlibc

?MAKE: -pick add \$@ %<

?S:d_readv:

?S: This variable conditionally defines the HAS_READV symbol, which

?S: indicates to the C program that the readv() routine is available.

?S:.

?C:HAS_READV:

?C: This symbol, if defined, indicates that the readv routine is

?C: available to do gather reads. You will also need <sys/uio.h>

?C: and there I_SYSUIO.

?C:.

?H:#\$d_readv HAS_READV /**/

?H:.

?LINT:set d_readv

: see if readv exists

set readv d_readv

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_readv.U

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?RCS: \$Id: i_socks.U,v \$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_socks: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_socks:

?S: This variable conditionally defines the I_SOCKS symbol, and indicates

?S: whether a C program should include <socks.h>.

?S:.

?C:I_SOCKS:

?C: This symbol, if defined, indicates that <socks.h> exists and

?C: should be included.

?C:.

?H:#\$i_socks I_SOCKS /**/

?H:.

?LINT:set i_socks

: see if this is a socks.h system

set socks.h i_socks

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_socks.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS:

?MAKE:d_frexp! Inlibc

?MAKE: -pick add \$@ %<

?S:d_frexp!

?S: This variable conditionally defines the HAS_FREXP symbol, which

?S: indicates to the C program that the frexp() routine is available.

?S:.

?C:HAS_FREXP:

?C: This symbol, if defined, indicates that the frexp routine is

?C: available to break a long double floating-point number into

?C: a normalized fraction and an integral power of 2.

?C:.

?H:#\$d_frexp HAS_FREXP /**/

?H:.

?LINT:set d_frexp

: see if frexp exists

set frexp d_frexp

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_frexp.U

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

?RCS: \$Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.
 ?RCS: You may reuse parts of this distribution only within the terms of
 ?RCS: that same Artistic Licence; a copy of which may be found at the root
 ?RCS: of the source tree for dist 4.0.
 ?RCS:
 ?RCS: \$Log: Null.U,v \$
 ?RCS: Revision 3.0 1993/08/18 12:05:10 ram
 ?RCS: Baseline for dist 3.0 netwide release.
 ?RCS:
 ?X:
 ?X: This unit ends up producing shell code to set all variables to ". This
 ?X: probably isn't necessary, but I'm paranoid. About certain things.
 ?X:
 ?MAKE:Null: Head
 ?MAKE: -pick add.Null \$@ %<

Found in path(s):
 * /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/U/Null.U
 No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
 ?RCS:
 ?RCS: Copyright (c) 1998 Jarkko Hietaniemi
 ?RCS:
 ?RCS: You may distribute under the terms of either the GNU General Public
 ?RCS: License or the Artistic License, as specified in the README file.
 ?RCS:
 ?MAKE:d_eaccess: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_eaccess:
 ?S: This variable conditionally defines the HAS_EACCESS symbol, which
 ?S: indicates to the C program that the eaccess() routine is available.
 ?S:.
 ?C:HAS_EACCESS :
 ?C: This symbol, if defined, indicates that the eaccess routine is
 ?C: available to do extended access checks.
 ?C:.
 ?H:#\$d_eaccess HAS_EACCESS /**/
 ?H:.
 ?LINT:set d_eaccess
 : see if eaccess exists
 set eaccess d_eaccess
 eval \$inlibc

Found in path(s):
 * /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/acl/d_eaccess.U
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?RCS:

?MAKE:d_exp2: Inlibc

?MAKE: -pick add \$@ %<

?S:d_exp2:

?S: This variable conditionally defines the HAS_EXP2 symbol, which

?S: indicates to the C program that the exp2() routine is available.

?S:.

?C:HAS_EXP2:

?C: This symbol, if defined, indicates that the exp2 routine is

?C: available to do the 2**x function.

?C:.

?H:#\$d_exp2 HAS_EXP2 /**/

?H:.

?LINT:set d_exp2

: see if exp2 exists

set exp2 d_exp2

eval \$inlibc

Found in path(s):

* /perl-5-30-0-origin-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_exp2.U

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?RCS: \$Id: i_libutil.U,v \$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_libutil: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_libutil:

?S: This variable conditionally defines the I_LIBUTIL symbol, and indicates

?S: whether a C program should include <libutil.h>.

?S:.

?C:I_LIBUTIL:

?C: This symbol, if defined, indicates that <libutil.h> exists and

?C: should be included.

?C:.

?H:#\$i_libutil I_LIBUTIL /**/

?H:.

?LINT:set i_libutil

: see if this is a libutil.h system

set libutil.h i_libutil

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_libutil.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS:

?MAKE:d_sqrtl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_sqrtl:

?S: This variable conditionally defines the HAS_SQRTL symbol, which

?S: indicates to the C program that the sqrtl() routine is available.

?S:.

?C:HAS_SQRTL:

?C: This symbol, if defined, indicates that the sqrtl routine is

?C: available to do long double square roots.

?C:.

?H:#\$d_sqrtl HAS_SQRTL /**/

?H:.

?LINT:set d_sqrtl

: see if sqrtl exists

set sqrtl d_sqrtl

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_sqrtl.U

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?RCS:

?MAKE:d_fdclose: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fdclose:

?S: This variable conditionally defines the HAS_FDCLOSE symbol, which

?S: indicates to the C program that the fdclose() routine is available.

?S:.

?C:HAS_FDCLOSE:

?C: This symbol, if defined, indicates that the fdclose routine is

?C: available to free a FILE structure without closing the underlying

?C: file descriptor. This function appeared in FreeBSD 10.2.

?C:.

?H:#\$d_fdclose HAS_FDCLOSE /**/

?H:.


```
?LINT:set d_fdclose
: see if fdclose exists
set fdclose d_fdclose
eval $inlibc
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fdclose.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: i_fp.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp: Inhdr
?MAKE: -pick add $@ %<
?S:i_fp:
?S: This variable conditionally defines the I_FP symbol, and indicates
?S: whether a C program should include <fp.h>.
?S:.
?C:I_FP:
?C: This symbol, if defined, indicates that <fp.h> exists and
?C: should be included.
?C:.
?H:#$i_fp I_FP /**/
?H:.
?LINT:set i_fp
: see if this is a fp.h system
set fp.h i_fp
eval $inhdr
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_fp.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id$
?RCS:
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getcwd: Inlibc
?MAKE: -pick add $@ %<
?S:d_getcwd:
?S: This variable conditionally defines the HAS_GETCWD symbol, which
```

?S: indicates to the C program that the getcwd() routine is available

?S: to get the current working directory.

?S:.

?C:HAS_GETCWD :

?C: This symbol, if defined, indicates that the getcwd routine is

?C: available to get the current working directory.

?C:.

?H:#\$d_getcwd HAS_GETCWD /**/

?H:.

?LINT:set d_getcwd

: see if getcwd exists

set getcwd d_getcwd

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getcwd.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999, Jarkko Hietaniemi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic License,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:full_ar: ar

?MAKE: -pick add \$@ %<

?S:full_ar:

?S: This variable contains the full pathname to 'ar', whether or

?S: not the user has specified 'portability'. This is only used

?S: in the Makefile.SH.

?S:.

: Store the full pathname to the ar program for use in the C program

: Respect a hint or command line value for full_ar.

case "\$full_ar" in

") full_ar=\$ar ;;

esac

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/Loc_ar.U

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

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

```
?MAKE:d_round: Inlibc
?MAKE: -pick add $@ %<
?S:d_round:
?S: This variable conditionally defines the HAS_ROUND symbol, which
?S: indicates to the C program that the round() routine is available.
?S:.
?C:HAS_ROUND:
?C: This symbol, if defined, indicates that the round routine is
?C: available to round to nearest integer, away from zero.
?C:.
?H:#$d_round HAS_ROUND /**/
?H:.
?LINT:set d_round
: see if round exists
set round d_round
eval $inlibc
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_round.U

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

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isnanl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isnanl:
?S: This variable conditionally defines the HAS_ISNANL symbol, which
?S: indicates to the C program that the isnanl() routine is available.
?S:.
?C:HAS_ISNANL:
?C: This symbol, if defined, indicates that the isnanl routine is
?C: available to check whether a long double is a NaN.
?C:.
?H:#$d_isnanl HAS_ISNANL /**/
?H:.
?LINT:set d_isnanl
: see if isnanl exists
set isnanl d_isnanl
eval $inlibc
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_isnanl.U

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

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_logb: Inlibc

?MAKE: -pick add \$@ %<

?S:d_logb:

?S: This variable conditionally defines the HAS_LOGB symbol, which

?S: indicates to the C program that the logb() routine is available

?S: to extract the exponent of x.

?S:.

?C:HAS_LOGB:

?C: This symbol, if defined, indicates that the logb routine is

?C: available to do the logb function.

?C:.

?H:#\$d_logb HAS_LOGB /**/

?H:.

?LINT:set d_logb

: see if logb exists

set logb d_logb

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_logb.U

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

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_fmin: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fmin:

?S: This variable conditionally defines the HAS_FMIN symbol, which

?S: indicates to the C program that the fmin() routine is available.

?S:.

?C:HAS_FMIN:

?C: This symbol, if defined, indicates that the fmin routine is

?C: available to do the minimum function.

?C:.

?H:#\$d_fmin HAS_FMIN /**/

?H:.

?LINT:set d_fmin

: see if fmin exists

set fmin d_fmin

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fmin.U

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

* Feel free to modify any of this as the need arises. Note, however,

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/metaconfig.html

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

?RCS: \$Id: i_netdb.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_netdb: Inhdr

?MAKE: -pick add \$@ %<

?S:i_netdb:

?S: This variable conditionally defines the I_NETDB symbol, and indicates

?S: whether a C program should include <netdb.h>.

?S:.

?C:I_NETDB:

?C: This symbol, if defined, indicates that <netdb.h> exists and

?C: should be included.

?C:.

?H:#\$i_netdb I_NETDB /**/

?H:.

?LINT:set i_netdb

: see if this is a netdb.h system

set netdb.h i_netdb

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/modified/i_netdb.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_recvmsg: Inlibc

?MAKE: -pick add \$@ %<

?S:d_recvmsg:

?S: This variable conditionally defines the HAS_RECVMSG symbol, which

?S: indicates to the C program that the recvmsg() routine is available.

?S:.

?C:HAS_RECVMSG:

?C: This symbol, if defined, indicates that the recvmsg routine is

?C: available to send structured socket messages.

?C:.

?H:#\$d_recvmsg HAS_RECVMSG /**/

?H:.

?LINT:set d_recvmsg

: see if recvmsg exists

set recvmsg d_recvmsg

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_recvmsg.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2005 H.Merijn Brand

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_unsetenv: Inlibc

?MAKE: -pick add \$@ %<

?S:d_unsetenv:

?S: This variable conditionally defines the HAS_UNSETENV symbol, which

?S: indicates to the C program that the unsetenv () routine is available.

?S:.

?C:HAS_UNSETENV:

?C: This symbol, if defined, indicates that the unsetenv () routine is

?C: available for use.

?C:.

?H:#\$d_unsetenv HAS_UNSETENV /**/

?H:.

?LINT:set d_unsetenv

: see if unsetenv exists

set unsetenv d_unsetenv

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_unsetenv.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

```

?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_qgcvt: Inlibc
?MAKE: -pick add $@ %<
?S:d_qgcvt:
?S: This variable conditionally defines the HAS_QGCVT symbol, which
?S: indicates to the C program that the qgcvt() routine is available.
?S:.
?C:HAS_QGCVT:
?C: This symbol, if defined, indicates that the qgcvt routine is
?C: available to convert long doubles ("quad doubles") to strings.
?C: This is a low-level routine hopefully faster than sprintf.
?C:.
?H:#$d_qgcvt HAS_QGCVT /**/
?H:.
?LINT:set d_qgcvt
: see if qgcvt exists
set qgcvt d_qgcvt
eval $inlibc

```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_qgcvt.U

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

```

/*
* $Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram $
*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* $Log: scandir.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:45 ram
* patch16: created
*
*/

```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/scandir.C

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

```

?RCS: $Id: i_ieeeftp.U,v $

```

```

?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ieeeFP: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ieeeFP:
?S: This variable conditionally defines the I_IEEEFP symbol, and indicates
?S: whether a C program should include <ieeeFP.h>.
?S:.
?C:I_IEEEFP:
?C: This symbol, if defined, indicates that <ieeeFP.h> exists and
?C: should be included.
?C:.
?H:#$i_ieeeFP I_IEEEFP /**/
?H:.
?LINT:set i_ieeeFP
: see if this is a ieeeFP.h system
case "$i_ieeeFP" in
" ) set ieeeFP.h i_ieeeFP
    eval $inhdr
    ;;
esac

```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_ieeeFP.U

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

```

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_scalbnl: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbnl:
?S: This variable conditionally defines the HAS_SCALBNL symbol, which
?S: indicates to the C program that the scalbnl() routine is available.
?S: If ilogbl is also present we can emulate frexpl.
?S:.
?C:HAS_SCALBNL:
?C: This symbol, if defined, indicates that the scalbnl routine is
?C: available. If ilogbl is also present we can emulate frexpl.
?C:.

```


?H:#\$d_scalbnl HAS_SCALBNL /**/

?H:.

?LINT:set d_scalbnl

: see if scalbnl exists

set scalbnl d_scalbnl

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_scalbnl.U

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

?RCS: \$Id: i_sunmath.U,v \$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_sunmath: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_sunmath:

?S: This variable conditionally defines the I_SUNMATH symbol, and indicates

?S: whether a C program should include <sunmath.h>.

?S:.

?C:I_SUNMATH:

?C: This symbol, if defined, indicates that <sunmath.h> exists and

?C: should be included.

?C:.

?H:#\$i_sunmath I_SUNMATH /**/

?H:.

?LINT:set i_sunmath

: see if this is a sunmath.h system

set sunmath.h i_sunmath

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sunmath.U

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

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_fsync: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fsync:

?S: This variable conditionally defines the HAS_FSYNC symbol, which

?S: indicates to the C program that the fsync() routine is available.

?S:.

?C:HAS_FSYNC:

?C: This symbol, if defined, indicates that the fsync routine is

?C: available to write a file's modified data and attributes to

?C: permanent storage.

?C:.

?H:#\$d_fsync HAS_FSYNC /**/

?H:.

?LINT:set d_fsync

: see if fsync exists

set fsync d_fsync

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fsync.U

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

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_nan: Inlibc

?MAKE: -pick add \$@ %<

?S:d_nan:

?S: This variable conditionally defines HAS_NAN if nan() is

?S: available to generate NaN.

?S:.

?C:HAS_NAN:

?C: This symbol, if defined, indicates that the nan routine is

?C: available to generate NaN.

?C:.

?H:#\$d_nan HAS_NAN /**/

?H:.

?LINT:set d_nan

: see if nan exists

set nan d_nan

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nan.U

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_expm1: Inlibc

?MAKE: -pick add \$@ %<

?S:d_expm1:

?S: This variable conditionally defines the HAS_EXPM1 symbol, which

?S: indicates to the C program that the expm1() routine is available.

?S:.

?C:HAS_EXPM1:

?C: This symbol, if defined, indicates that the expm1 routine is

?C: available to do the exp(x) - 1 when x is near 1 function.

?C:.

?H:#\$d_expm1 HAS_EXPM1 /**/

?H:.

?LINT:set d_expm1

: see if expm1 exists

set expm1 d_expm1

eval \$inlibc

Found in path(s):

* /perl-5-30-0-origin-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_expm1.U

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

?RCS: \$Id\$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_clearenv: Inlibc

?MAKE: -pick add \$@ %<

?S:d_clearenv:

?S: This variable conditionally defines the HAS_CLEARENV symbol, which

?S: indicates to the C program that the clearenv () routine is available.

?S:.

?C:HAS_CLEARENV:

?C: This symbol, if defined, indicates that the clearenv () routine is

?C: available for use.

?C:.

?H:#\$d_clearenv HAS_CLEARENV /**/

?H:.

?LINT:set d_clearenv

: see if clearenv exists

set clearenv d_clearenv

eval \$inlibc

Found in path(s):

* /perl-5-30-0-origin-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_clearenv.U

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

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_localeconv_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_localeconv_l:
?S: This variable conditionally defines the HAS_LOCALECONV_L symbol, which
?S: indicates to the C program that the localeconv_l() routine is available.
?S:.
?C:HAS_LOCALECONV_L:
?C: This symbol, if defined, indicates that the localeconv_l routine is
?C: available to query certain information about a locale.
?C:.
?H:#$d_localeconv_l HAS_LOCALECONV_L /**/
?H:.
?LINT:set d_localeconv_l
: see if localeconv_l exists
set localeconv_l d_localeconv_l
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/threads/d_localeconv_l.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2008 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_timegm: Inlibc
?MAKE: -pick add $@ %<
?S:d_timegm:
?S: This variable conditionally defines the HAS_TIMEGM symbol, which
?S: indicates to the C program that the timegm () routine is available.
?S:.
?C:HAS_TIMEGM:
?C: This symbol, if defined, indicates that the timegm routine is
?C: available to do the opposite of gmtime ()
?C:.
?H:#$d_timegm HAS_TIMEGM /**/
?H:.
?LINT:set d_timegm
```

```
: see if timegm exists
set timegm d_timegm
eval $inlibc
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_timegm.U
```

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

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_fma: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fma:

?S: This variable conditionally defines the HAS_FMA symbol, which

?S: indicates to the C program that the fma() routine is available.

?S:.

?C:HAS_FMA:

?C: This symbol, if defined, indicates that the fma routine is

?C: available to do the multiply-add function.

?C:.

?H:#\$d_fma HAS_FMA /**/

?H:.

?LINT:set d_fma

```
: see if fma exists
```

```
set fma d_fma
```

```
eval $inlibc
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fma.U
```

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_socks5_init: Inlibc

?MAKE: -pick add \$@ %<

?S:d_socks5_init:

?S: This variable conditionally defines the HAS_SOCKS5_INIT symbol, which

?S: indicates to the C program that the socks5_init() routine is available.

?S:.

?C:HAS_SOCKS5_INIT:

?C: This symbol, if defined, indicates that the socks5_init routine is

?C: available to initialize SOCKS 5.

```
?C:.
?H:#$d_socks5_init HAS_SOCKS5_INIT /**/
?H:.
?LINT:set d_socks5_init
: see if socks5_init exists
set socks5_init d_socks5_init
eval $inlibc
```

Found in path(s):

```
* /perl-5-30-0-origin-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_socks5_init.U
```

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

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_scalbn: Inlibc

?MAKE: -pick add \$@ %<

?S:d_scalbn:

?S: This variable conditionally defines the HAS_SCALBN symbol, which

?S: indicates to the C program that the scalbn() routine is available.

?S:.

?C:HAS_SCALBN:

?C: This symbol, if defined, indicates that the scalbn routine is

?C: available to multiply floating-point number by integral power

?C: of radix.

?C:.

```
?H:#$d_scalbn HAS_SCALBN /**/
```

?H:.

?LINT:set d_scalbn

: see if scalbn exists

set scalbn d_scalbn

eval \$inlibc

Found in path(s):

```
* /perl-5-30-0-origin-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_scalbn.U
```

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

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_erf: Inlibc

?MAKE: -pick add \$@ %<

?S:d_erf:

?S: This variable conditionally defines the HAS_ERF symbol, which

?S: indicates to the C program that the erf() routine is available.

?S:.

?C:HAS_ERF:

?C: This symbol, if defined, indicates that the erf routine is

?C: available to do the error function.

?C:.

?H:#\$d_erf HAS_ERF /**/

?H:.

?LINT:set d_erf

: see if erf exists

set erf d_erf

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_erf.U

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

?RCS: \$Id: i_ustat.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_ustat: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_ustat:

?S: This variable conditionally defines the I_USTAT symbol, and indicates

?S: whether a C program should include <ustat.h>.

?S:.

?C:I_USTAT:

?C: This symbol, if defined, indicates that <ustat.h> exists and

?C: should be included.

?C:.

?H:#\$i_ustat I_USTAT /**/

?H:.

?LINT:set i_ustat

: see if this is a ustat.h system

set ustat.h i_ustat

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_ustat.U

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

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1998, Jarkko Hietaniemi

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?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?X:

?X: Useless unit dropped. Use randfunc instead.

?X:

?LINT:empty

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/compline/randbits.U

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?RCS:

?MAKE:d_lgamma: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lgamma:

?S: This variable conditionally defines the HAS_LGAMMA symbol, which

?S: indicates to the C program that the lgamma() routine is available

?S: for the log gamma function. See also d_tgamma and d_lgamma_r.

?S:.

?C:HAS_LGAMMA:

?C: This symbol, if defined, indicates that the lgamma routine is

?C: available to do the log gamma function. See also HAS_TGAMMA and

?C: HAS_LGAMMA_R.

?C:.

?H:#\$d_lgamma HAS_LGAMMA /**/

?H:.

?LINT:set d_lgamma

: see if lgamma exists

set lgamma d_lgamma

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lgamma.U

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?RCS:

?MAKE:d_log2: Inlibc

?MAKE: -pick add \$@ %<

?S:d_log2:

?S: This variable conditionally defines the HAS_LOG2 symbol, which

?S: indicates to the C program that the log2() routine is available

?S: to compute log base two.

?S:.

?C:HAS_LOG2:

?C: This symbol, if defined, indicates that the log2 routine is

?C: available to do the log2 function.

?C:.

?H:#\$d_log2 HAS_LOG2 /**/

?H:.

?LINT:set d_log2

: see if log2 exists

set log2 d_log2

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_log2.U

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?RCS:

?MAKE:d_asinh: Inlibc

?MAKE: -pick add \$@ %<

?S:d_asinh:

?S: This variable conditionally defines the HAS_ASINH symbol, which

?S: indicates to the C program that the asinh() routine is available.

?S:.

?C:HAS_ASINH:

?C: This symbol, if defined, indicates that the asinh routine is

?C: available to do the inverse hyperbolic sine function.

?C:.

?H:#\$d_asinh HAS_ASINH /**/

?H:.

?LINT:set d_asinh

: see if asinh exists

set asinh d_asinh

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_asinh.U

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?RCS:

?MAKE:i_poll: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_poll:

?S: This variable conditionally defines the I_POLL symbol, and indicates

?S: whether a C program should include <poll.h>.

?S:.

?C:I_POLL:

?C: This symbol, if defined, indicates that <poll.h> exists and

?C: should be included. (see also HAS_POLL)

?C:.

?H:#\$i_poll I_POLL /**/

?H:.

?LINT:set i_poll

: see if this is a poll.h system

set poll.h i_poll

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_poll.U

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?RCS:

?MAKE:d_inetpton: Inlibc

?MAKE: -pick add \$@ %<

?S:d_inetpton:

?S: This variable conditionally defines the HAS_INETPTON symbol,

?S: which indicates to the C program that the inet_pton() function

?S: is available.

?S:.

?C:HAS_INETPTON:

?C: This symbol, if defined, indicates that the inet_pton() function

?C: is available to parse IPv4 and IPv6 strings.

?C:.

?H:#\$d_inetpton HAS_INETPTON /**/

?H:.

?LINT:set d_inetpton

: see if inet_pton exists

set inet_pton d_inetpton

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_inetpton.U

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?RCS: \$Id: i_sysvfs.U,v \$

```

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?RCS:
?MAKE:i_sysvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysvfs:
?S: This variable conditionally defines the I_SYSVFS symbol,
?S: and indicates whether a C program should include <sys/vfs.h>.
?S:.
?C:I_SYS_VFS:
?C: This symbol, if defined, indicates that <sys/vfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysvfs I_SYS_VFS /**/
?H:.
?LINT:set i_sysvfs
: see if this is a sys/vfs.h system
set sys/vfs.h i_sysvfs
eval $inhdr

```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysvfs.U

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```

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?RCS:
?MAKE:d_fegetround: Inlibc
?MAKE: -pick add $@ %<
?S:d_fegetround:
?S: This variable conditionally defines HAS_FEGETROUND if fegetround() is
?S: available to get the floating point rounding mode.
?S:.
?C:HAS_FEGETROUND:
?C: This symbol, if defined, indicates that the fegetround routine is
?C: available to return the macro corresponding to the current rounding
?C: mode.
?C:.
?H:#$d_fegetround HAS_FEGETROUND /**/
?H:.
?LINT:set d_fegetround
: see if fegetround exists
set fegetround d_fegetround
eval $inlibc

```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fegetround.U

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?RCS:

?MAKE:d_trunc: Inlibc

?MAKE: -pick add \$@ %<

?S:d_trunc:

?S: This variable conditionally defines the HAS_TRUNC symbol, which

?S: indicates to the C program that the trunc() routine is available

?S: to round doubles towards zero.

?S:.

?C:HAS_TRUNC:

?C: This symbol, if defined, indicates that the trunc routine is

?C: available to round doubles towards zero.

?C:.

?H:#\$d_trunc HAS_TRUNC /**/

?H:.

?LINT:set d_trunc

: see if trunc exists

set trunc d_trunc

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_trunc.U

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?RCS: \$Id: i_sysstatfs.U,v \$

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?RCS:

?MAKE:i_sysstatfs: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_sysstatfs:

?S: This variable conditionally defines the I_SYSSTATFS symbol,

?S: and indicates whether a C program should include <sys/statfs.h>.

?S:.

?C:I_SYS_STATFS:

?C: This symbol, if defined, indicates that <sys/statfs.h> exists.

?C:.

?H:#\$i_sysstatfs I_SYS_STATFS /**/

?H:.

?LINT:set i_sysstatfs

: see if this is a sys/statfs.h system

set sys/statfs.h i_sysstatfs

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysstatfs.U

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?RCS:

?MAKE:i_langinfo: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_langinfo:

?S: This variable conditionally defines the I_LANGINFO symbol,

?S: and indicates whether a C program should include <langinfo.h>.

?S:.

?C:I_LANGINFO:

?C: This symbol, if defined, indicates that <langinfo.h> exists and

?C: should be included.

?C:.

?H:#\$i_langinfo I_LANGINFO /**/

?H:.

?LINT:set i_langinfo

: see if this is a langinfo.h system

set langinfo.h i_langinfo

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_langinfo.U

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?RCS:

?MAKE:d_lrintl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lrintl:

?S: This variable conditionally defines the HAS_LRINTL symbol, which

?S: indicates to the C program that the lrintl() routine is available

?S: to return the integral value closest to a long double (according

?S: to the current rounding mode).

?S:.

?C:HAS_LRINTL:

?C: This symbol, if defined, indicates that the lrintl routine is
?C: available to return the integral value closest to a long double
?C: (according to the current rounding mode).
?C:.
?H:#\$d_lrintl HAS_LRINTL /**/
?H:.
?LINT:set d_lrintl
: see if lrintl exists
set lrintl d_lrintl
eval \$inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lrintl.U
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?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_dup3: Inlibc
?MAKE: -pick add \$@ %<
?S:d_dup3:
?S: This variable conditionally defines HAS_DUP3 if dup3() is
?S: available to duplicate file descriptors.
?S:.
?C:HAS_DUP3:
?C: This symbol, if defined, indicates that the dup3 routine is
?C: available to duplicate file descriptors.
?C:.
?H:#\$d_dup3 HAS_DUP3 /**/
?H:.
?LINT:set d_dup3
: see if dup3 exists
set dup3 d_dup3
eval \$inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_dup3.U
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 ?RCS:
 ?MAKE:d_getitimer: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_getitimer:
 ?S: This variable conditionally defines the HAS_GETITIMER symbol, which
 ?S: indicates to the C program that the getitimer() routine is available.
 ?S:.
 ?C:HAS_GETITIMER:
 ?C: This symbol, if defined, indicates that the getitimer routine is
 ?C: available to return interval timers.
 ?C:.
 ?H:#\$d_getitimer HAS_GETITIMER /**/
 ?H:.
 ?LINT:set d_getitimer
 : see if getitimer exists
 set getitimer d_getitimer
 eval \$inlibc

Found in path(s):
 * /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getitimer.U
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 ?RCS:
 ?MAKE:d_copysignl: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_copysignl:
 ?S: This variable conditionally defines the HAS_COPYSIGNL symbol, which
 ?S: indicates to the C program that the copysignl() routine is available.
 ?S: If aintl is also present we can emulate modfl.
 ?S:.
 ?C:HAS_COPYSIGNL:
 ?C: This symbol, if defined, indicates that the copysignl routine is
 ?C: available. If aintl is also present we can emulate modfl.
 ?C:.
 ?H:#\$d_copysignl HAS_COPYSIGNL /**/
 ?H:.
 ?LINT:set d_copysignl
 : see if copysignl exists
 set copysignl d_copysignl
 eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_copysignl.U

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?RCS:

?MAKE:d_llrint: Inlibc

?MAKE: -pick add \$@ %<

?S:d_llrint:

?S: This variable conditionally defines the HAS_LLRLINT symbol, which

?S: indicates to the C program that the llrint() routine is available

?S: to return the long long value closest to a double (according

?S: to the current rounding mode).

?S:.

?C:HAS_LLRLINT:

?C: This symbol, if defined, indicates that the llrint routine is

?C: available to return the long long value closest to a double

?C: (according to the current rounding mode).

?C:.

?H:#\$d_llrint HAS_LLRLINT /**/

?H:.

?LINT:set d_llrint

: see if llrint exists

set llrint d_llrint

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_llrint.U

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?RCS:

?MAKE:i_crypt: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_crypt:

?S: This variable conditionally defines the I_CRYPT symbol, and indicates

?S: whether a C program should include <crypt.h>.

?S:.

?C:I_CRYPT:

?C: This symbol, if defined, indicates that <crypt.h> exists and

?C: should be included.


```
?C:.
?H:#$i_crypt I_CRYPT /**/
?H:.
?LINT:set i_crypt
: see if this is a crypt.h system
set crypt.h i_crypt
eval $inhdr
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_crypt.U
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```

```
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?RCS:
?MAKE:d_fseeko: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_fseeko:
?S: This variable conditionally defines the HAS_FSEEKO symbol, which
?S: indicates to the C program that the fseeko() routine is available.
?S:.
?C:HAS_FSEEKO:
?C: This symbol, if defined, indicates that the fseeko routine is
?C: available to fseek beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_fseeko HAS_FSEEKO /**/
?H:.
?LINT:set d_fseeko
: see if fseeko exists
set fseeko d_fseeko
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use fseek.)" ;;
esac
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fseeko.U
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?RCS:

?MAKE:d_sendmsg: Inlibc

?MAKE: -pick add \$@ %<

?S:d_sendmsg:

?S: This variable conditionally defines the HAS_SENDMSG symbol, which

?S: indicates to the C program that the sendmsg() routine is available.

?S:.

?C:HAS_SENDMSG:

?C: This symbol, if defined, indicates that the sendmsg routine is

?C: available to send structured socket messages.

?C:.

?H:#\$d_sendmsg HAS_SENDMSG /**/

?H:.

?LINT:set d_sendmsg

: see if sendmsg exists

set sendmsg d_sendmsg

eval \$inlibc

Found in path(s):

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?RCS:

?MAKE:d_setitimer: Inlibc

?MAKE: -pick add \$@ %<

?S:d_setitimer:

?S: This variable conditionally defines the HAS_SETITIMER symbol, which

?S: indicates to the C program that the setitimer() routine is available.

?S:.

?C:HAS_SETITIMER:

?C: This symbol, if defined, indicates that the setitimer routine is

?C: available to set interval timers.

?C:.

?H:#\$d_setitimer HAS_SETITIMER /**/

?H:.

?LINT:set d_setitimer

: see if setitimer exists

set setitimer d_setitimer

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_setitimer.U

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?RCS:

?MAKE:d_llround: Inlibc

?MAKE: -pick add \$@ %<

?S:d_llround:

?S: This variable conditionally defines the HAS_LLROUND symbol, which

?S: indicates to the C program that the llround() routine is available

?S: to return the long long value nearest to x.

?S:.

?C:HAS_LLROUND:

?C: This symbol, if defined, indicates that the llround routine is

?C: available to return the nearest long long value.

?C:.

?H:#\$d_llround HAS_LLROUND /**/

?H:.

?LINT:set d_llround

: see if llround exists

set llround d_llround

eval \$inlibc

Found in path(s):

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?RCS:

?MAKE:d_aintl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_aintl:

?S: This variable conditionally defines the HAS_AINTL symbol, which

?S: indicates to the C program that the aintl() routine is available.

?S: If copysignl is also present we can emulate modfl.

?S:.

?C:HAS_AINTL:

?C: This symbol, if defined, indicates that the aintl routine is

?C: available. If copysignl is also present we can emulate modfl.

?C:.

?H:#\$d_aintl HAS_AINTL /**/

?H:.

```
?LINT:set d_aintl
: see if aintl exists
set aintl d_aintl
eval $inlibc
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_aintl.U
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```

```
?RCS: $Id$
```

```
?RCS:
```

```
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```

```
?RCS:
```

```
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```

```
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```

```
?RCS:
```

```
?MAKE:d_ftello: Inlibc longsize
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_ftello:
```

```
?S: This variable conditionally defines the HAS_FTELLO symbol, which
```

```
?S: indicates to the C program that the ftello() routine is available.
```

```
?S:.
```

```
?C:HAS_FTELLO:
```

```
?C: This symbol, if defined, indicates that the ftello routine is
```

```
?C: available to ftell beyond 32 bits (useful for ILP32 hosts).
```

```
?C:.
```

```
?H:#$d_ftello HAS_FTELLO /**/
```

```
?H:.
```

```
?LINT:set d_ftello
```

```
: see if ftello exists
```

```
set ftello d_ftello
```

```
eval $inlibc
```

```
case "$longsize" in
```

```
8) echo "(Your long is 64 bits, so you could use ftell.)" ;;
```

```
esac
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_ftello.U
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```

```
?RCS: $Id$
```

```
?RCS:
```

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 ?RCS:
 ?MAKE:d_getnameinfo: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_getnameinfo:
 ?S: This variable conditionally defines the HAS_GETNAMEINFO symbol,
 ?S: which indicates to the C program that the getnameinfo() function
 ?S: is available.
 ?S:.
 ?C:HAS_GETNAMEINFO:
 ?C: This symbol, if defined, indicates that the getnameinfo() function
 ?C: is available for use.
 ?C:.
 ?H:#\$d_getnameinfo HAS_GETNAMEINFO /**/
 ?H:.
 ?LINT:set d_getnameinfo
 : see if getnameinfo exists
 set getnameinfo d_getnameinfo
 eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getnameinfo.U

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?RCS: \$Id: i_syslog.U,v \$
 ?RCS:
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 ?RCS: License or the Artistic License, as specified in the README file.
 ?RCS:
 ?MAKE:i_syslog: Inhdr Hasfield
 ?MAKE: -pick add \$@ %<
 ?S:i_syslog:
 ?S: This variable conditionally defines the I_SYSLOG symbol,
 ?S: and indicates whether a C program should include <syslog.h>.
 ?S:.
 ?C:I_SYSLOG:
 ?C: This symbol, if defined, indicates that <syslog.h> exists and
 ?C: should be included.
 ?C:.
 ?H:#\$i_syslog I_SYSLOG /**/
 ?H:.
 ?LINT:set i_syslog
 : see if this is a syslog.h system

```
set syslog.h i_syslog
eval $inhdr
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_syslog.U

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

```
/*
 * $Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram $
 *
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 *
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 * of the source tree for dist 4.0.
 *
 * $Log: setsid.C,v $
 * Revision 3.0.1.1 1994/01/24 13:58:47 ram
 * patch16: created
 *
 */
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/setsid.C

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?RCS:

?MAKE:d_nearbyint: Inlibc

?MAKE: -pick add \$@ %<

?S:d_nearbyint:

?S: This variable conditionally defines HAS_NEARBYINT if nearbyint()

?S: is available to return the integral value closest to (according to

?S: the current rounding mode) to x.

?S:.

?C:HAS_NEARBYINT:

?C: This symbol, if defined, indicates that the nearbyint routine is

?C: available to return the integral value closest to (according to

?C: the current rounding mode) to x.

?C:.

?H:#\$d_nearbyint HAS_NEARBYINT /**/

?H:.

?LINT:set d_nearbyint

: see if nearbyint exists

set nearbyint d_nearbyint

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nearbyint.U

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?RCS:

?MAKE:d_log1p: Inlibc

?MAKE: -pick add \$@ %<

?S:d_log1p:

?S: This variable conditionally defines the HAS_LOG1P symbol, which

?S: indicates to the C program that the logp1() routine is available

?S: to compute log(1 + x) for values of x close to zero.

?S:.

?C:HAS_LOG1P:

?C: This symbol, if defined, indicates that the log1p routine is

?C: available to do the logarithm of 1 plus argument function.

?C:.

?H:#\$d_log1p HAS_LOG1P /**/

?H:.

?LINT:set d_log1p

: see if log1p exists

set log1p d_log1p

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_log1p.U

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?RCS:

?MAKE:d_towlower: Inlibc

?MAKE: -pick add \$@ %<

?S:d_towlower:

?S: This variable conditionally defines the HAS_TOWLOWER symbol, which

?S: indicates to the C program that the towlower() routine is available.

?S:.

?C:HAS_TOWLOWER:

?C: This symbol, if defined, indicates that the towlower () routine is

?C: available to do case conversion.

?C:.

?H:#\$d_towlower HAS_TOWLOWER /**/

?H:.

?LINT:set d_towlower

: see if tolower exists

set tolower d_towlower

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_towlower.U

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?RCS:

?MAKE:d_strtod_l: Inlibc

?MAKE: -pick add \$@ %<

?S:d_strtod_l:

?S: This variable conditionally defines the HAS_STRTOD_L symbol, which

?S: indicates to the C program that the strtod_l() routine is available.

?S:.

?C:HAS_STRTOD_L:

?C: This symbol, if defined, indicates that the strtod_l routine is

?C: available to convert strings to long doubles.

?C:.

?H:#\$d_strtod_l HAS_STRTOD_L /**/

?H:.

?LINT:set d_strtod_l

: see if strtod_l exists

set strtod_l d_strtod_l

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/threads/d_strtod_l.U

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?RCS:

?MAKE:i_prot: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_prot:
 ?S: This variable conditionally defines the I_PROT symbol, and indicates
 ?S: whether a C program should include <prot.h>.
 ?S:.
 ?C:I_PROT:
 ?C: This symbol, if defined, indicates that <prot.h> exists and
 ?C: should be included.
 ?C:.
 ?H:#\$i_prot I_PROT /**/
 ?H:.
 ?LINT:set i_prot
 : see if this is a prot.h system
 set prot.h i_prot
 eval \$inhdr

Found in path(s):
 * /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_prot.U
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 ?RCS:
 ?MAKE:d_accessx: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_accessx:
 ?S: This variable conditionally defines the HAS_ACCESSX symbol, which
 ?S: indicates to the C program that the accessx() routine is available.
 ?S:.
 ?C:HAS_ACCESSX :
 ?C: This symbol, if defined, indicates that the accessx routine is
 ?C: available to do extended access checks.
 ?C:.
 ?H:#\$d_accessx HAS_ACCESSX /**/
 ?H:.
 ?LINT:set d_accessx
 : see if accessx exists
 set accessx d_accessx
 eval \$inlibc

Found in path(s):
 * /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/acl/d_accessx.U
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?RCS:

?MAKE:d_llroundl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_llroundl:

?S: This variable conditionally defines the HAS_LLROUNDL symbol, which

?S: indicates to the C program that the llroundl() routine is available

?S: to return the long long value nearest to x away from zero.

?S:.

?C:HAS_LLROUNDL:

?C: This symbol, if defined, indicates that the llroundl routine is

?C: available to return the nearest long long value away from zero of

?C: the long double argument value.

?C:.

?H:#\$d_llroundl HAS_LLROUNDL /**/

?H:.

?LINT:set d_llroundl

: see if llroundl exists

set llroundl d_llroundl

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_llroundl.U

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?RCS:

?MAKE:d_getfsstat : Inlibc

?MAKE: -pick add \$@ %<

?S:d_getfsstat:

?S: This variable conditionally defines the HAS_GETFSSTAT symbol, which

?S: indicates to the C program that the getfsstat() routine is available.

?S:.

?C:HAS_GETFSSTAT:

?C: This symbol, if defined, indicates that the getfsstat routine is

?C: available to stat filesystems in bulk.

?C:.

?H:#\$d_getfsstat HAS_GETFSSTAT /**/

?H:.

?LINT:set d_getfsstat

: see if getfsstat exists

set getfsstat d_getfsstat

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getfsstat.U

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?RCS: \$Id: i_sysstatvfs.U,v \$

?RCS:

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?RCS:

?MAKE:i_sysstatvfs: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_sysstatvfs:

?S: This variable conditionally defines the I_SYSSTATVFS symbol,

?S: and indicates whether a C program should include <sys/statvfs.h>.

?S:.

?C:I_SYS_STATVFS:

?C: This symbol, if defined, indicates that <sys/statvfs.h> exists and

?C: should be included.

?C:.

?H:#\$i_sysstatvfs I_SYS_STATVFS /**/

?H:.

?LINT:set i_sysstatvfs

: see if this is a sys/statvfs.h system

set sys/statvfs.h i_sysstatvfs

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysstatvfs.U

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/*

* \$Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram \$

*

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*

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* of the source tree for dist 4.0.

*

* Original Author: Larry Wall <lwall@netlabs.com>

*

* \$Log: dup2.C,v \$

* Revision 3.0.1.1 1994/01/24 13:58:37 ram

* patch16: created

*

*/

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/dup2.C

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?RCS:

?MAKE:d_remainder: Inlibc

?MAKE: -pick add \$@ %<

?S:d_remainder:

?S: This variable conditionally defines the HAS_REMAINDER symbol, which

?S: indicates to the C program that the remainder() routine is available.

?S:.

?C:HAS_REMAINDER:

?C: This symbol, if defined, indicates that the remainder routine is

?C: available to return the floating-point remainder.

?C:.

?H:#\$d_remainder HAS_REMAINDER /**/

?H:.

?LINT:set d_remainder

: see if remainder exists

set remainder d_remainder

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_remainder.U

1.347 python3.8 3.8.10-0ubuntu1~20.04.9

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A. HISTORY OF THE SOFTWARE

=====

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

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

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

All

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

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
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
PSF	yes			

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands

as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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1.3 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
2.1.2	2.1.1	2002	PSF	yes
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section 10

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```

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1.350 sqlite 3.31.1-4ubuntu0.6

1.350.1 Available under license :

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: sqlite3

Source: <https://www.sqlite.org/cgi/src/dir?ci=trunk>

Files: *

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1.351 openssh 8.2p1-4ubuntu0.11

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1)

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[Tatu continues]

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[However, none of that term is relevant at this point in time. All of these restrictively licenced software components which he talks about have been removed from OpenSSH, i.e.,

- RSA is no longer included, found in the OpenSSL library

- IDEA is no longer included, its use is deprecated

- DES is now external, in the OpenSSL library

- GMP is no longer used, and instead we call BN code from OpenSSL

- Zlib is now external, in a library

- The make-ssh-known-hosts script is no longer included

- TSS has been removed

- MD5 is now external, in the OpenSSL library

- RC4 support has been replaced with ARC4 support from OpenSSL

- Blowfish is now external, in the OpenSSL library

[The licence continues]

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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>

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1.352 iputils 20190709-3ubuntu1

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1.356 python-retrying 1.3.3-4

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1.357 open-ldap 2.4.49+dfsg-2ubuntu1.10

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Local-Date: Fri, 06 Jun 2003 13:18:52 -0400
Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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MA

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Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)

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To: Stephen Frost <sfrost@debian.org>

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UoM

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After discussing this license with the OpenLDAP Foundation we received clarification on it:

- * To: Stephen Frost <sfrost@snowman.net>
- * Subject: Re: OpenLDAP Licenseing issues
- * From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
- * Date: Wed, 28 May 2003 10:55:44 -0700
- * Cc: Steve Langasek <vorlon@netexpress.net>, debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
- * In-reply-to: <20030528162613.GB8524@ns.snowman.net>
- * Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
- * Old-return-path: <Kurt@OpenLDAP.org>

Steven,

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Regards, Kurt

1.358 quagga 1.2.4-4ubuntu0.4

1.358.1 Available under license :

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Version 2, June 1991

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1.368 curl 7.68.0-1ubuntu2.22

1.368.1 Available under license :

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License Mixing

=====

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

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

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`## c-ares`

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

`## zlib`

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

`## MIT Kerberos`

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`## GNU GSS`

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(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses

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libssh2

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

1.369 util-linux 2.34-0.1ubuntu9.6

1.369.1 Available under license :

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##  
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Version 3, 29 June 2007

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The

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1.372 nghttp2 1.40.0-1ubuntu0.3

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Upstream-Name: nghttp2

Upstream-Contact: Tatsuhiro Tsujikawa <t-tujikawa@users.sourceforge.net>

Source: <https://github.com/tatsuhiro-t/nghttp2>

Files: *

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1.375 distro-info-data 0.43ubuntu1.16

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1.376 glib 2.64.6-1~ubuntu20.04.7

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It was downloaded from <<https://download.gnome.org/sources/glib/>>.

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1.377 libnet-netmask-perl 1.9104-1

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<signature of Ty Coon>, 1 April 1989
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The End

1.378 vim 8.1.2269-1ubuntu5.23

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uganda.txt For Vim version 8.1. Last change: 2018 May 17

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SUMMARY

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- 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

The e-mail address for sending the money to is:

Bram@iccf-holland.org

For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL95 INGB 0004 5487 74

under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: \$70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:noet:ft=help:norl:

1.379 python-idna 2.8-1ubuntu0.1

1.379.1 Available under license :

BSD-style without advertising clause

1.380 jinja 2.10.1-2ubuntu0.3

1.380.1 Available under license :

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1.381 glibc 2.31-0ubuntu9.16

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@center Version 2.1, February 1999

@c This file is intended to be included within another document,

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@display

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

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

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 @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many

libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0

@item

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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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@enumerate a

@item

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@item

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

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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,
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@enumerate a

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@item

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@item

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```
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```
@end
smallexample
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```

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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cURL (libcurl)

cURL (libcurl)

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```
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    saslnt.h auxprop.c canonusr.c checkpw.c client.c common.c
config.c
    external.c saslutil.c server.c seterror.c dlopen.c
./plugins
    scram.c gssapi.c
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dtoa.c

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src/wcsdup.c

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Facebook Fast Checksum Patch

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Google Controlling Master Thread I/O Rate Patch

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lib/gssapi/mechglue/g_canon_name.c
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lib/gssapi/mechglue/g_exp_sec_context.c
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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
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lib/gssapi/mechglue/g_sign.c
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lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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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
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# Secondary weight range: 0020..0192 (371)
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unordered_dense

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zlib

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MySQL 8.0.37 Community

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type 'show
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to redistribute it under certain conditions; type 'show c'
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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cURL (libcurl)

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  config.c
  external.c saslutil.c server.c seterror.c dlopen.c
./plugins
  scram.c gssapi.c
./common
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```

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```

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dtoa.c

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src/literal.h

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Facebook Fast Checksum Patch

Facebook Fast Checksum Patch

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Also included:

crc32.c -- compute the CRC-32 of a buf stream

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Google Controlling Master Thread I/O Rate Patch

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- lib/gssapi/mechglue/g_context_time.c
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- lib/gssapi/mechglue/g_dsp_name.c
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- lib/gssapi/mechglue/g_imp_name.c
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- 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/iprof_hdr.h
kadmin/server/iprof_svc.c
lib/kdb/iprof.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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#
#
# See UTS #10, Unicode Collation Algorithm, for more information.
#
# Diagnostic weight ranges
# Primary weight range: 0200..3ACA (14539)
# Secondary weight range: 0020..0192 (371)
# Variant secondaries: 0159..015E (6)
# Digit secondaries: 015F..0192 (52)
# Tertiary weight range: 0002..001F (30)
#
@version 5.2.0
```

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unordered_dense

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

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included without
limitation in the term "modification".)

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

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

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

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

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

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

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,

in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

This option is useful when you wish to copy part of the code of

the Library into a program that is not a library.

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

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

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

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

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

Section 6 states terms for distribution of such executables.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any

executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these

materials or that you have already sent this user a copy.

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

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

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

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

under the terms of the
Sections above.

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 3, 29 June 2007

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

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

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

TERMS AND CONDITIONS

0. Definitions.

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

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

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

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

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1. Source Code.

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

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

The

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

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

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section 10

makes it unnecessary.

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"keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This

License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

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

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

6. Conveying Non-Source Forms.

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

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

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

c) Convey individual copies of the object code with a copy of the

written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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

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

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

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Version 3, 29 June 2007

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

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b) Accompany the work

with a written offer, valid for at

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

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END OF TERMS AND CONDITIONS

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

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

@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).

@c man end

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@c man end

@end ignore

@node Copying

@c man begin DESCRIPTION

@appendix GNU GENERAL PUBLIC LICENSE

@c The GNU General Public License.

@center Version 3, 29 June 2007

@c This file is intended to be included within another document,

@c hence no sectioning command or @node.

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

@heading TERMS AND CONDITIONS

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

on the Program.

To ``propagate" a

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

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@item

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@item

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@item

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@item

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@item

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```
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```

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`@c man end`

1.385 libdigest-bubblebabble-perl 0.02-2

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1.386 libhttp-server-simple-perl 0.52-1

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1.387 libtest-differences-perl 0.67-1

1.387.1 Available under license :

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=head1 LIMITATIONS

=head2 C<Test> or C<Test::More>

This module "mixes in" with Test.pm or any of the test libraries based on

Test::Builder (Test::Simple, Test::More, etc). It does this by peeking to see whether Test.pm or Test/Builder.pm is in %INC, so if you are not using one of those, it will print a warning and play dumb by not emitting test numbers (or incrementing them). If you are using one of these, it should interoperate nicely.

=head2 Exporting

Exports all 3 functions by default (and by design). Use

```
use Test::Differences ();
```

to suppress this behavior if you don't like the namespace pollution.

This module will not override functions like ok(), is(), is_deeply(), etc. If it did, then you could C<eval "use Test::Differences qw(is_deeply);"> to get automatic upgrading to diffing behaviors without the C<sub my_ok> shown above. Test::Differences intentionally does not provide this behavior because this would mean that Test::Differences would need to emulate every popular test module out there, which would require far more coding and maintenance than I'm willing to do. Use the eval and my_ok deployment shown above if you want some level of automation.

=head2 Unicode

Perls before 5.6.0 don't support characters > 255 at all, and 5.6.0 seems broken. This means that you might get odd results using perl5.6.0 with unicode strings.

=head2 C<Data::Dumper> and older Perls.

Relies on Data::Dumper (for now), which, prior to perl5.8, will not always report hashes in the same order. C<\$Data::Dumper::Sortkeys > I<is> set to 1, so on more recent versions of Data::Dumper, this should not occur. Check CPAN to see if it's been peeled out of the main perl distribution and backported. Reported by Ilya Martynov <ilya@martynov.org>, although the Sortkeys "future perfect" workaround has been set in anticipation of a new Data::Dumper for a while. Note that the two hashes should report the same here:

```
not ok 5
#   Failed test (t/ctrl/05-home.t at line 51)
# +-----+-----+-----+
# | Elt|Got          | Elt|Expected        |
# +-----+-----+-----+
# | 0|{              | 0|{              |
# | 1| 'password' => ", | 1| 'password' => ", |
```

```
# * 2| 'method' => 'login', * |
# | 3| 'ctrl' => 'home', | 2| 'ctrl' => 'home', |
# | | * 3| 'method' => 'login', *
# | 4| 'email' => 'test' | 4| 'email' => 'test' |
# | 5|} | 5|} |
# +-----+-----+-----+-----+
```

Data::Dumper also overlooks the difference between

```
$a[0] = $a[1];
$a[1] = $a[0]; # $a[0] = $a[1]
```

and

```
$x = $y;
$y = $x;
@a = ( $x, $y ); # $a[0] =
$y, not $a[1]
```

The former involves two scalars, the latter 4: \$x, \$y, and @a[0,1].

This was carefully explained to me in words of two syllables or less by Yves Orton <demerphq@hotmail.com>. The plan to address this is to allow you to select Data::Denter or some other module of your choice as an option.

=head2 Code-refs

Test::Differences turns on C<\$Data::Dumper::Deparse>, so any code-refs in your data structures will be turned into text before they are examined, using L<B::Deparse>. The precise text generated for a sub-ref might not be what you expect as it is generated from the compiled version of the code, but it should at least be consistent and spot differences correctly.

You can turn this behaviour off by setting C<\$Test::Differences::NoDeparse>.

=head1 AUTHORS

Barrie Slaymaker <barries@slaysys.com> - original author

Curtis "Ovid" Poe <ovid@cpan.org>

David Cantrell <david@cantrell.org.uk>

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=cut

Found in path(s):

* /libtest-differences-perl-0-67-orig-1-tar-gz/Test-Differences-0.67/lib/Test/Differences.pm

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

abstract: 'Test strings and data structures and show differences if not ok'

author:

- 'David Cantrell <david@cantrell.org.uk>'

build_requires:

ExtUtils::MakeMaker: '0'

configure_requires:

ExtUtils::MakeMaker: '0'

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150010'

license: unknown

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: '1.4'

name: Test-Differences

no_index:

directory:

- t

- inc

requires:

Capture::Tiny: '0.24'

Data::Dumper: '2.126'

Test::More: '0.88'

Text::Diff: '1.43'

resources:

bugtracker: <https://github.com/DrHyde/Test-Differences/issues>

repository: <https://github.com/DrHyde/Test-Differences>

version: '0.67'

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

Found in path(s):

* /libtest-differences-perl-0-67-orig-1-tar-gz/Test-Differences-0.67/META.yml

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Test-Differences

INSTALLATION

To install this module, run the following commands:

```
perl Makefile.PL  
make  
make test  
make install
```

SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module with the `perldoc` command.

```
perldoc Test::Differences
```

You can also look for information at:

The bug tracker:

<https://github.com/DrHyde/perl-modules-Test-Differences/issues>

CPAN Ratings

<http://cpanratings.perl.org/d/Test-Differences>

MetaCPAN:

<https://metacpan.org/pod/Test::Differences>

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* /libtest-differences-perl-0-67-orig-1-tar-gz/Test-Differences-0.67/README

1.388 libcpanel-json-xs-perl 4.19-1ubuntu0.1

1.388.1 Available under license :

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1.389 finalrd 5

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Files: *

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Version 3, 29 June 2007

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1.390 libtext-diff-perl 1.45-1

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1.391 libmath-random-isaac-perl 1.004-1

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```
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under certain conditions; type `show c' for details.
```

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1.392 libperlcorelibsperl 0.004-2

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abstract: 'libraries historically supplied with Perl 4'

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build_requires:

Config: '0'

IO::Handle: '0'

Module::Build: '0.26'

Test::More: '0'

perl: '5.006'

strict: '0'

warnings: '0'

configure_requires:

Module::Build:

'0.26'
perl: '5.006'
strict: '0'
warnings: '0'
dynamic_config: 0
generated_by: 'Module::Build version 0.4224, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
 url: <http://module-build.sourceforge.net/META-spec-v1.4.html>
 version: '1.4'
name: Perl4-CoreLibs
provides:
 Perl4::CoreLibs:
 file: lib/Perl4/CoreLibs.pm
 version: '0.004'
requires:
 File::Find: '0'
 Getopt::Long: '0'
 IPC::Open2: '0'
 IPC::Open3: '0'
 Socket: '0'
 Text::ParseWords: '3.25'
 Time::Local: '0'
 perl: '5.006'
 strict: '0'
 warnings: '0'
 warnings::register: '0'
resources:
 bugtracker: <https://rt.cpan.org/Public/Dist/Display.html?Name=Perl4-CoreLibs>
 license: <http://dev.perl.org/licenses/>
 version: '0.004'
x_serialization_backend: 'CPAN::Meta::YAML version 0.012'

Found in path(s):

* /libperl4-corelibs-perl-0-004-orig-1-tar-gz/Perl4-CoreLibs-0.004/META.yml

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NAME

Perl4::CoreLibs - libraries historically supplied with Perl 4

DESCRIPTION

This is a collection of ".pl" files that were bundled with the Perl core until core version 5.15.1. Relying on their presence in the core distribution is deprecated; they should be acquired from this CPAN distribution instead. From core version 5.13.3 until their removal, the core versions of these libraries emit a deprecation warning when loaded.

The CPAN version does not emit such a warning.

The entire Perl 4 approach to libraries was largely superseded in Perl 5.000 by the system of module namespaces and ".pm" files. Most of the libraries in this collection predate Perl 5.000, but a handful were first introduced in that version. Functionally, most have been directly superseded by modules in the Perl 5 style. These libraries should not be used by new code. This collection exists to support old Perl programs that predates satisfactory replacements.

Most of these libraries have not been substantially maintained in the course of Perl 5 development. They are now very antiquated in style, making no use of the language facilities introduced since Perl 4. They should therefore not be used as programming examples.

INSTALLATION

```
perl Build.PL
./Build
./Build test
./Build install
```

AUTHOR

Known contributing authors for the libraries in this package are Brandon S. Allbery, John Bazik, Tom Christiansen <tchrist@convex.com>, Charles Collins, Joe Doupnik <JRD@CC.USU.EDU>, Marion Hakanson <hakanson@cse.ogi.edu>, Waldemar Kepsch <kebsch.pad@nixpbe.UUCP>, Lee McLoughlin <lmjm@doc.ic.ac.uk>, <A.Macpherson@bnr.co.uk>, Randal L. Schwartz <merlyn@stonehenge.com>, Aaron Sherman <asherman@fmrco.com>, Wayne Thompson, Larry Wall <lwall@jpl-devvax.jpl.nasa.gov>, and Ilya Zakharevich. (Most of these email addresses are probably out of date.)

Known contributing authors for the tests in this package are Tom Christiansen <tchrist@convex.com>, Alexandr Ciornii (alexchorny at gmail.com), Marc Horowitz <marc@mit.edu>, Dave Rolsky <autarch@urth.org>, and David Sundstrom <sunds@asictest.sc.ti.com>.

Andrew Main (Zefram) <zefram@fysh.org> built the Perl4::CoreLibs package.

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Christiansen <tchrist@convex.com>, Alexandr Ciornii (alexchorny@gmail.com), Marc Horowitz <marc@mit.edu>, Dave Rolsky <autarch@urth.org>, and David Sundstrom <sunds@asictest.sc.ti.com>.

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1.393 libdigest-hmac-perl 1.03+dfsg-2

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HMAC is used for message integrity checks between two parties that share a secret key, and works in combination with some other Digest algorithm, usually MD5 or SHA-1. The HMAC mechanism is described in RFC 2104.

The Digest::HMAC module follow the common Digest:: interface, but the constructor takes the secret key and the name of some other simple Digest:: module as argument.

You will need perl version 5.004 or better to install these modules.
The Digest::MD5 module and Digest::SHA1 module must be installed.

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1.394 liblist-compare-perl 0.53-1

1.394.1 Available under license :

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=head1 NAME

List::Compare - Compare elements of two or more lists

=head1 VERSION

This document refers to version 0.53 of List::Compare. This version was released June 07 2015.

=head1 SYNOPSIS

The bare essentials:

```
@Llist = qw(abel abel baker camera delta edward fargo golfer);
@Rlist = qw(baker camera delta delta edward fargo golfer hilton);
```

```
$lc = List::Compare->new(\@Llist, \@Rlist);
```

```
@intersection = $lc->get_intersection;
@union = $lc->get_union;
```

... and so forth.

=head1 DISCUSSION: Modes and Methods

=head2 Regular Case: Compare Two Lists

=over 4

=item * Constructor: C<new()>

Create a List::Compare object. Put the two lists into arrays (named or anonymous) and pass references to the arrays to the constructor.

```
@Llist = qw(abel abel baker camera delta edward fargo golfer);
@Rlist = qw(baker camera delta delta edward fargo golfer hilton);
```

```
$lc = List::Compare->new(\@Llist,
\@Rlist);
```

By default, List::Compare's methods return lists which are sorted using Perl's default C<sort> mode: ASCII-betical sorting. Should you not need to have these lists sorted, you may achieve a speed boost by constructing the List::Compare object with the unsorted option:

```
$lc = List::Compare->new('-u', \@Llist, \@Rlist);
```

or

```
$lc = List::Compare->new('--unsorted', \@Llist, \@Rlist);
```

=item * Alternative Constructor

If you prefer a more explicit delineation of the types of arguments passed to a function, you may use this 'single hashref' kind of constructor to build a List::Compare object:

```
$lc = List::Compare->new( { lists => [\@Llist, \@Rlist] } );
```

or

```
$lc = List::Compare->new( {
    lists => [\@Llist, \@Rlist],
    unsorted => 1,
} );
```

```
=item * C<get_intersection()>
```

Get those items which appear at least once in both lists (their intersection).

```
@intersection = $lc->get_intersection;
```

```
=item * C<get_union()>
```

Get those items which appear
at least once in either list (their union).

```
@union = $lc->get_union;
```

```
=item * C<get_unique()>
```

Get those items which appear (at least once) only in the first list.

```
@Lonly = $lc->get_unique;
@Lonly = $lc->get_Lonly; # alias
```

```
=item * C<get_complement()>
```

Get those items which appear (at least once) only in the second list.

```
@Ronly = $lc->get_complement;
@Ronly = $lc->get_Ronly; # alias
```

```
=item * C<get_symmetric_difference()>
```

Get those items which appear at least once in either the first or the second
list, but not both.

```
@LorRonly = $lc->get_symmetric_difference;
@LorRonly = $lc->get_syndiff; # alias
@LorRonly = $lc->get_LorRonly; # alias
```

```
=item * C<get_bag()>
```

Make a bag of all those items in both lists. The bag differs from the
union of the two lists in that it holds as many copies of individual
elements as appear in the original lists.

```
@bag = $lc->get_bag;
```

=item * Return references rather than lists

An alternative approach

to the above methods: If you do not immediately require an array as the return value of the method call, but simply need a I<reference> to an (anonymous) array, use one of the following parallel methods:

```
$intersection_ref = $lc->get_intersection_ref;  
$union_ref       = $lc->get_union_ref;  
$Lonly_ref       = $lc->get_unique_ref;  
$Lonly_ref       = $lc->get_Lonly_ref;          # alias  
$Ronly_ref       = $lc->get_complement_ref;  
$Ronly_ref       = $lc->get_Ronly_ref;          # alias  
$LorRonly_ref    = $lc->get_symmetric_difference_ref;  
$LorRonly_ref    = $lc->get_symdiff_ref;        # alias  
$LorRonly_ref    = $lc->get_LorRonly_ref;       # alias  
$bag_ref         = $lc->get_bag_ref;
```

=item * C<is_LsubsetR()>

Return a true value if the first argument passed to the constructor ('L' for 'left') is a subset of the second argument passed to the constructor ('R' for 'right').

```
$LR = $lc->is_LsubsetR;
```

Return

a true value if R is a subset of L.

```
$RL = $lc->is_RsubsetL;
```

=item * C<is_LequivalentR()>

Return a true value if the two lists passed to the constructor are equivalent, I<i.e.> if every element in the left-hand list ('L') appears at least once in the right-hand list ('R') and I<vice versa>.

```
$eqv = $lc->is_LequivalentR;  
$eqv = $lc->is_LeqvIntR;      # alias
```

=item * C<is_LdisjointR()>

Return a true value if the two lists passed to the constructor are disjoint, I<i.e.> if the two lists have zero elements in common (or, what is the same thing, if their intersection is an empty set).

```
$disj = $lc->is_LdisjointR;
```

```
=item * C<print_subset_chart()>
```

Pretty-print a chart showing whether one list is a subset of the other.

```
$lc->print_subset_chart;
```

```
=item * C<print_equivalence_chart()>
```

Pretty-print a chart showing whether the two lists are equivalent (same elements found at least once in both).

```
$lc->print_equivalence_chart;
```

```
=item * C<is_member_which()>
```

Determine

in I<which> (if any) of the lists passed to the constructor a given string can be found. In list context, return a list of those indices in the constructor's argument list corresponding to lists holding the string being tested.

```
@memb_arr = $lc->is_member_which('abel');
```

In the example above, C<@memb_arr> will be:

```
( 0 )
```

because C<'abel'> is found only in C<@A1> which holds position C<0> in the list of arguments passed to C<new()>.

In scalar context, the return value is the number of lists passed to the constructor in which a given string is found.

As with other List::Compare methods which return a list, you may wish the above method returned a (scalar) reference to an array holding the list:

```
$memb_arr_ref = $lc->is_member_which_ref('baker');
```

In the example above, C<\$memb_arr_ref> will be:

```
[ 0, 1 ]
```

because C<'baker'> is found in C<@Llist> and C<@Rlist>, which hold positions C<0> and C<1>, respectively, in the list of arguments passed to C<new()>.

B<Note:>

methods C<is_member_which()> and C<is_member_which_ref> test only one string at a time and hence take only one argument. To test more than one string at a time see the next method, C<are_members_which()>.

=item * C<are_members_which()>

Determine in I<which> (if any) of the lists passed to the constructor one or more given strings can be found. The strings to be tested are placed in an array (named or anonymous); a reference to that array is passed to the method.

```
$memb_hash_ref =  
  $lc->are_members_which([ qw| abel baker fargo hilton zebra | ]);
```

I<Note:> In versions of List::Compare prior to 0.25 (April 2004), the strings to be tested could be passed as a flat list. This is no longer possible; the argument must now be a reference to an array.

The return value is a reference to a hash of arrays. The key for each element in this hash is the string being tested. Each element's value is a reference to an anonymous array whose elements are those indices in the constructor's argument list corresponding to lists holding the strings being tested. In the examples above, C<\$memb_hash_ref> will be:

```
{  
  abel  => [ 0 ],  
  baker => [ 0, 1 ],  
  fargo => [ 0, 1 ],  
  hilton => [ 1 ],  
  zebra => [ ],  
};
```

B<Note:> C<are_members_which()> can take more than one argument; C<is_member_which()> and C<is_member_which_ref()> each take only one argument. Unlike those two methods, C<are_members_which()> returns a hash reference.

=item * C<is_member_any()>

Determine whether a given string can be found in I<any> of the lists passed as arguments to the constructor. Return 1 if a specified string can be found in any of the lists and 0 if not.

```
$found = $lc->is_member_any('abel');
```

In the example above, C<\$found> will be C<1> because C<'abel'> is found in one or more of the lists passed as arguments to C<new()>.

=item * C<are_members_any()>

Determine whether a specified string or strings can be found in I<any> of the lists passed as arguments to the constructor. The strings to be tested are placed in an array (named or anonymous); a reference to that array is passed to C<are_members_any>.

```
$memb_hash_ref = $lc->are_members_any([ qw| abel baker fargo hilton zebra | ]);
```

I<Note:> In versions of List::Compare prior to 0.25 (April 2004), the strings to be tested could be passed as a flat list. This is no longer possible; the argument must now be a reference to an array.

The return value is a reference to a hash where an element's key is the string being tested and the element's value is 1 if the string can be found in I<any> of the lists and 0 if not. In the examples above, C<\$memb_hash_ref> will be:

```
{
  abel   => 1,
  baker  => 1,
  fargo  => 1,
  hilton => 1,
  zebra  => 0,
};
```

C<zebra>'s value is C<0> because C<zebra> is not found in either of the lists passed as arguments to C<new()>.

=item * C<get_version()>

Return
current List::Compare version number.

```
$vers = $lc->get_version;
```

=back

=head2 Accelerated Case: When User Only Wants a Single Comparison

=over 4

=item * Constructor C<new()>

If you are certain that you will only want the results of a I<single> comparison, computation may be accelerated by passing C<'a'> or C<'--accelerated'> as the first argument to the constructor.

```
@Llist = qw(abel abel baker camera delta edward fargo golfer);
@Rlist = qw(baker camera delta delta edward fargo golfer hilton);

$lca = List::Compare->new('-a', \@Llist, \@Rlist);
```

or

```
$lca = List::Compare->new('--accelerated', \@Llist, \@Rlist);
```

As with List::Compare's Regular case, should you not need to have a sorted list returned by an accelerated List::Compare method, you may achieve a speed boost by constructing the accelerated List::Compare object with the unsorted option:

```
$lca = List::Compare->new('-u', '-a', \@Llist, \@Rlist);
```

or

```
$lca = List::Compare->new('--unsorted', '--accelerated',
\@Llist, \@Rlist);
```

=item * Alternative Constructor

You may use the 'single hashref' constructor format to build a List::Compare object calling for the Accelerated mode:

```
$lca = List::Compare->new( {
    lists => [\@Llist, \@Rlist],
    accelerated => 1,
} );
```

or

```
$lca = List::Compare->new( {
    lists => [\@Llist, \@Rlist],
    accelerated => 1,
    unsorted => 1,
} );
```

=item * Methods

All the comparison methods available in the Regular case are available to you in the Accelerated case as well.

```
@intersection = $lca->get_intersection;
@union        = $lca->get_union;
@Lonly        = $lca->get_unique;
```

```

@Ronly      = $lca->get_complement;
@LorRonly   = $lca->get_symmetric_difference;
@bag        = $lca->get_bag;
$intersection_ref = $lca->get_intersection_ref;
$union_ref   = $lca->get_union_ref;
$Lonly_ref   = $lca->get_unique_ref;
$Ronly_ref   =
$lca->get_complement_ref;
$LorRonly_ref = $lca->get_symmetric_difference_ref;
$bag_ref     = $lca->get_bag_ref;
$LR          = $lca->is_LsubsetR;
$RL          = $lca->is_RsubsetL;
$seqv        = $lca->is_LequivalentR;
$disj        = $lca->is_LdisjointR;
              $lca->print_subset_chart;
              $lca->print_equivalence_chart;
@memb_arr     = $lca->is_member_which('abel');
$memb_arr_ref = $lca->is_member_which_ref('baker');
$memb_hash_ref = $lca->are_members_which(
                [ qw| abel baker fargo hilton zebra | ] );
$found        = $lca->is_member_any('abel');
$memb_hash_ref = $lca->are_members_any(
                [ qw| abel baker fargo hilton zebra | ] );
$vers         = $lca->get_version;

```

All the aliases for methods available in the Regular case are available to you in the Accelerated case as well.

=back

=head2 Multiple Case:

Compare Three or More Lists

=over 4

=item * Constructor C<new()>

Create a List::Compare object. Put each list into an array and pass references to the arrays to the constructor.

```

@Al  = qw(abel abel baker camera delta edward fargo golfer);
@Bob  = qw(baker camera delta delta edward fargo golfer hilton);
@Carmen = qw(fargo golfer hilton icon icon jerky kappa);
@Don  = qw(fargo icon jerky);
@Ed   = qw(fargo icon icon jerky);

$lcm = List::Compare->new(\@Al, \@Bob, \@Carmen, \@Don, \@Ed);

```

As with List::Compare's Regular case, should you not need to have a sorted list returned by a List::Compare method, you may achieve a speed boost by constructing the object with the unsorted option:

```
$lcm = List::Compare->new('-u', \@Al, \@Bob, \@Carmen, \@Don, \@Ed);
```

or

```
$lcm = List::Compare->new('--unsorted', \@Al, \@Bob, \@Carmen, \@Don, \@Ed);
```

=item * Alternative Constructor

You may use the 'single hashref' constructor format to build a List::Compare object to process three or more lists at once:

```
$lcm = List::Compare->new( {  
  lists => [\@Al, \@Bob, \@Carmen, \@Don, \@Ed],  
} );
```

or

```
$lcm = List::Compare->new( {  
  lists => [\@Al, \@Bob, \@Carmen, \@Don, \@Ed],  
  unsorted => 1,  
} );
```

=item * Multiple Mode Methods Analogous to Regular and Accelerated Mode Methods

Each List::Compare method available in the Regular and Accelerated cases has an analogue in the Multiple case. However, the results produced usually require more careful specification.

B<Note:> Certain of the following methods available in List::Compare's Multiple mode take optional numerical arguments where those numbers represent the index position of a particular list in the list of arguments passed to the constructor. To specify this index position correctly,

=over 4

=item *

start the count at C<0> (as is customary with Perl array indices); and

=item *

do I<not> count any unsorted option (C<'u'> or C<'--unsorted'>) preceding the

array references in the constructor's own argument list.

=back

Example:

```
$lcmex = List::Compare->new('--unsorted', \@alpha, \@beta, \@gamma);
```

For the purpose of supplying a numerical argument to a method which optionally takes such an argument, C<'--unsorted'> is skipped, C<@alpha> is C<0>, C<@beta> is C<1>, and so forth.

=over 4

=item * C<get_intersection()>

Get those items found in I<each> of the lists passed to the constructor (their intersection):

```
@intersection = $lcm->get_intersection;
```

=item * C<get_union()>

Get those items found in I<any> of the lists passed to the constructor (their union):

```
@union = $lcm->get_union;
```

=item * C<get_unique()>

To get those items which appear only in I<one particular list,> provide C<get_unique()> with that list's index position in the list of arguments passed to the constructor (not counting any C<'-u'> or C<'--unsorted'> option).

Example: C<@Carmen> has index position C<2> in the constructor's C<@_>.

To get elements

unique to C<@Carmen>:

```
@Lonly = $lcm->get_unique(2);
```

If no index position is passed to C<get_unique()> it will default to 0 and report items unique to the first list passed to the constructor.

=item * C<get_complement()>

To get those items which appear in any list I<other than one particular list,> provide C<get_complement()> with that list's index position in

the list of arguments passed to the constructor (not counting any C<'-u'> or C<'--unsorted'> option).

Example: C<@Don> has index position C<3> in the constructor's C<@_>. To get elements not found in C<@Don>:

```
@Ronly = $lcm->get_complement(3);
```

If no index position is passed to C<get_complement()> it will default to 0 and report items found in any list other than the first list passed to the constructor.

```
=item * C<get_symmetric_difference()>
```

Get those items each of which appears in I<only one> of the lists passed to the constructor (their symmetric_difference);

```
@LorRonly = $lcm->get_symmetric_difference;
```

```
=item  
* C<get_bag()>
```

Make a bag of all items found in any list. The bag differs from the lists' union in that it holds as many copies of individual elements as appear in the original lists.

```
@bag = $lcm->get_bag;
```

```
=item * Return reference instead of list
```

An alternative approach to the above methods: If you do not immediately require an array as the return value of the method call, but simply need a I<reference> to an array, use one of the following parallel methods:

```
$intersection_ref = $lcm->get_intersection_ref;  
$union_ref       = $lcm->get_union_ref;  
$Lonly_ref       = $lcm->get_unique_ref(2);  
$Ronly_ref       = $lcm->get_complement_ref(3);  
$LorRonly_ref    = $lcm->get_symmetric_difference_ref;  
$bag_ref         = $lcm->get_bag_ref;
```

```
=item * C<is_LsubsetR()>
```

To determine whether one particular list is a subset of another list passed to the constructor, provide C<is_LsubsetR()> with the index position of the presumed subset (ignoring any unsorted option), followed by the index position of the presumed superset.

Example: To determine whether C<@Ed> is a subset of C<@Carmen>, call:

```
$LR = $lcm->is_LsubsetR(4,2);
```

A true value (C<1>) is returned if the left-hand list is a subset of the right-hand list; a false value (C<0>) is returned otherwise.

If no arguments are passed, C<is_LsubsetR()> defaults to C<(0,1)> and compares the first two lists passed to the constructor.

```
=item * C<is_LequivalentR()>
```

To determine whether any two particular lists are equivalent to each other, provide C<is_LequivalentR> with their index positions in the list of arguments passed to the constructor (ignoring any unsorted option).

Example: To determine whether C<@Don> and C<@Ed> are equivalent, call:

```
$eqv = $lcm->is_LequivalentR(3,4);
```

A true value (C<1>) is returned if the lists are equivalent; a false value (C<0>) otherwise.

If no arguments are passed, C<is_LequivalentR> defaults to C<(0,1)> and compares the first two lists passed to the constructor.

```
=item * C<is_LdisjointR()>
```

To determine whether any two particular lists are disjoint from each other (I<i.e.,> have no members in common), provide C<is_LdisjointR> with their index positions in the list of arguments passed to the constructor (ignoring any unsorted option).

Example: To determine whether C<@Don> and C<@Ed> are disjoint, call:

```
$disj = $lcm->is_LdisjointR(3,4);
```

A true value (C<1>) is returned if the lists are equivalent; a false value (C<0>) otherwise.

If no arguments are passed, C<is_LdisjointR> defaults to C<(0,1)> and compares the first two lists passed to the constructor.

```
=item * C<print_subset_chart()>
```

Pretty-print a chart showing the subset relationships among the various

source lists:

```
$lcm->print_subset_chart;
```

```
=item * C<print_equivalence_chart()>
```

Pretty-print a chart showing the equivalence relationships among the various source lists:

```
$lcm->print_equivalence_chart;
```

```
=item * C<is_member_which()>
```

Determine in I<which> (if any) of the lists passed to the constructor a given string can be found. In list context, return a list of those indices in the constructor's argument list (ignoring any unsorted option) corresponding to i lists holding the string being tested.

```
@memb_arr = $lcm->is_member_which('abel');
```

In the example above, C<@memb_arr> will be:

```
( 0 )
```

because C<'abel'> is found only in C<@A1> which holds position C<0> in the list of arguments passed to C<new()>.

```
=item * C<is_member_which_ref()>
```

As with other List::Compare methods which return a list, you may wish the above method returned a (scalar) reference to an array holding the list:

```
$memb_arr_ref = $lcm->is_member_which_ref('jerky');
```

In the example above, C<\$memb_arr_ref> will be:

```
[ 3, 4 ]
```

because C<'jerky'> is found in C<@Don> and C<@Ed>, which hold positions C<3> and C<4>, respectively, in the list of arguments passed to C<new()>.

B<Note:> methods C<is_member_which()> and C<is_member_which_ref> test only one string at a time and hence take only one argument. To test more than one string at a time see the next method, C<are_members_which()>.

```
=item * C<are_members_which()>
```

Determine in C<which> (if any) of the lists passed to the constructor one or more given strings can be found. The strings to be tested are placed in an anonymous array, a reference to which is passed to the method.

```
$memb_hash_ref =  
  $lcm->are_members_which([ qw| abel baker fargo hilton zebra | ] );
```

I<Note:> In versions of List::Compare prior to 0.25 (April 2004), the strings to be tested could be passed as a flat list. This is no longer possible; the argument must now be a reference to an anonymous array.

The return value is a reference to a hash of arrays. The key for each element in this hash is the string being tested. Each element's value is a reference to an anonymous array whose elements are those indices in the constructor's argument list corresponding to lists holding the strings being tested.

In the two examples above, C<\$memb_hash_ref> will be:

```
{  
  abel  => [ 0      ],  
  baker => [ 0, 1    ],  
  fargo => [ 0, 1, 2, 3, 4 ],  
  hilton => [ 1, 2    ],  
  zebra => [        ],  
};
```

B<Note:> C<are_members_which()> can take more than one argument; C<is_member_which()> and C<is_member_which_ref()> each take only one argument. C<are_members_which()> returns a hash reference; the other methods return either a list or a reference to an array holding that list, depending on context.

```
=item * C<is_member_any()>
```

Determine whether a given string can be found in I<any> of the lists passed as arguments to the constructor.

```
$found = $lcm->is_member_any('abel');
```

Return C<1> if a specified string can be found in I<any> of the lists and C<0> if not.

In the example above, C<\$found> will be C<1> because C<'abel'> is found in one or more of the lists passed as arguments to C<new()>.

=item * C<are_members_any()>

Determine

whether a specified string or strings can be found in I<any> of the lists passed as arguments to the constructor. The strings to be tested are placed in an array (anonymous or named), a reference to which is passed to the method.

```
$memb_hash_ref = $lcm->are_members_any([ qw| abel baker fargo hilton zebra | ]);
```

I<Note:> In versions of List::Compare prior to 0.25 (April 2004), the strings to be tested could be passed as a flat list. This is no longer possible; the argument must now be a reference to an anonymous array.

The return value is a reference to a hash where an element's key is the string being tested and the element's value is 1 if the string can be found in C<any> of the lists and 0 if not.

In the two examples above, C<\$memb_hash_ref> will be:

```
{
  abel   => 1,
  baker  => 1,
  fargo  => 1,
  hilton => 1,
  zebra  => 0,
};
```

C<zebra>'s value will be C<0> because C<zebra> is not found in any of the lists passed as arguments to C<new()>.

=item * C<get_version()>

Return current List::Compare version number:

```
$vers = $lcm->get_version;
```

=back

=item * Multiple Mode Methods Not Analogous to Regular and Accelerated Mode Methods

=over 4

=item * C<get_nonintersection()>

Get those items found in I<any> of the lists passed to the constructor which do I<not> appear in I<all> of the lists (I<i.e.,> all items except those found in the intersection of the lists):

```
@nonintersection = $lcm->get_nonintersection;
```

```
=item * C<get_shared()>
```

Get those items which appear in more than one of the lists passed to the constructor (I<i.e.,> all items except those found in their symmetric difference);

```
@shared = $lcm->get_shared;
```

```
=item * C<get_nonintersection_ref()>
```

If you only need a reference to an array as a return value rather than a full array, use the following alternative methods:

```
$nonintersection_ref = $lcm->get_nonintersection_ref;
```

```
$shared_ref = $lcm->get_shared_ref;
```

```
=item * C<get_unique_all()>
```

Get

a reference to an array of array references where each of the interior arrays holds the list of those items I<unique> to the list passed to the constructor with the same index position.

```
$unique_all_ref = $lcm->get_unique_all();
```

In the example above, C<\$unique_all_ref> will hold:

```
[
  [ qw| abel | ],
  [ ],
  [ qw| jerky | ],
  [ ],
  [ ],
]
```

```
=item * C<get_complement_all()>
```

Get a reference to an array of array references where each of the interior arrays holds the list of those items in the I<complement> to the list passed to the constructor with the same index position.

```
$complement_all_ref = $lcm->get_complement_all();
```

In the example above, C<\$complement_all_ref> will hold:

```
[
  [ qw| hilton icon jerky | ],
  [ qw| abel icon jerky | ],
  [ qw| abel baker camera delta edward | ],
  [ qw| abel baker camera delta edward jerky | ],
  [ qw| abel baker camera delta edward jerky | ],
]
```

=back

=back

=head2

Multiple Accelerated Case: Compare Three or More Lists but Request Only a Single Comparison among the Lists

=over 4

=item * Constructor C<new()>

If you are certain that you will only want the results of a single comparison among three or more lists, computation may be accelerated by passing C<'a'> or C<'--accelerated'> as the first argument to the constructor.

```
@Al   = qw(abel abel baker camera delta edward fargo golfer);
@Bob   = qw(baker camera delta delta edward fargo golfer hilton);
@Carmen = qw(fargo golfer hilton icon icon jerky kappa);
@Don    = qw(fargo icon jerky);
@Ed     = qw(fargo icon icon jerky);
```

```
$lcma = List::Compare->new('-a',
  \@Al, \@Bob, \@Carmen, \@Don, \@Ed);
```

As with List::Compare's other cases, should you not need to have a sorted list returned by a List::Compare method, you may achieve a speed boost by constructing the object with the unsorted option:

```
$lcma = List::Compare->new('-u', '-a',
  \@Al, \@Bob, \@Carmen, \@Don, \@Ed);
```

or

```
$lcma = List::Compare->new('--unsorted', '--accelerated',
  \@Al, \@Bob, \@Carmen, \@Don, \@Ed);
```

As was the case with List::Compare's Multiple mode, do not count the unsorted option (C<'u'> or C<'--unsorted'>) or the accelerated option (C<'a'> or C<'--accelerated'>) when determining the index position of

a particular list in the list of array references passed to the constructor.

Example:

```
$lcmaex = List::Compare->new('--unsorted', '--accelerated',  
    \@alpha, \@beta, \@gamma);
```

=item * Alternative Constructor

The 'single hashref' format may be used to construct a List::Compare object which calls for accelerated processing of three or more lists at once:

```
$lcmaex = List::Compare->new( {  
    accelerated => 1,  
    lists      => [\@alpha, \@beta, \@gamma],  
} );
```

or

```
$lcmaex = List::Compare->new( {  
    unsorted   => 1,  
    accelerated => 1,  
    lists      => [\@alpha, \@beta, \@gamma],  
} );
```

=item * Methods

For the purpose of supplying a numerical argument to a method which optionally takes such an argument, C<'--unsorted'> and C<'--accelerated'> are skipped, C<@alpha> is C<0>, C<@beta> is C<1>, and so forth. To get a list of those items unique to C<@gamma>, you would call:

```
@gamma_only = $lcmaex->get_unique(2);
```

=back

=head2 Passing Seen-hashes to the Constructor Instead of Arrays

=over 4

=item * When Seen-Hashes Are Already Available to You

Suppose that in a particular Perl program, you had to do extensive munging of data from an external source and that, once you had correctly parsed a line of data, it was easier to assign that datum to a hash than to an array.

More specifically, suppose that you used each datum as the key to an element of a lookup table in the form of a I<seen-hash>:

```

my %Llist = (
    abel    => 2,
    baker   => 1,
    camera  => 1,
    delta   => 1,
    edward  => 1,
    fargo
=> 1,
    golfer  => 1,
);

```

```

my %Rlist = (
    baker   => 1,
    camera  => 1,
    delta   => 2,
    edward  => 1,
    fargo   => 1,
    golfer  => 1,
    hilton  => 1,
);

```

In other words, suppose it was more convenient to compute a lookup table I<implying> a list than to compute that list explicitly.

Since in almost all cases List::Compare takes the elements in the arrays passed to its constructor and I<internally> assigns them to elements in a seen-hash, why shouldn't you be able to pass (references to) seen-hashes I<directly> to the constructor and avoid unnecessary array assignments before the constructor is called?

=item * Constructor C<new()>

You can now do so:

```
$lcsh = List::Compare->new(\%Llist, \%Rlist);
```

=item * Methods

I<All> of List::Compare's output methods are supported I<without further modification> when references to seen-hashes are passed to the constructor.

```

@intersection    = $lcsh->get_intersection;
@union           = $lcsh->get_union;
@Lonly           = $lcsh->get_unique;
@Ronly           = $lcsh->get_complement;
@LorRonly        = $lcsh->get_symmetric_difference;
@bag             = $lcsh->get_bag;

```

```

$intersection_ref = $lcsh->get_intersection_ref;
$union_ref       = $lcsh->get_union_ref;
$Lonly_ref       = $lcsh->get_unique_ref;
$Ronly_ref       = $lcsh->get_complement_ref;
$LorRonly_ref    = $lcsh->get_symmetric_difference_ref;
$bag_ref         = $lcsh->get_bag_ref;
$LR              = $lcsh->is_LsubsetR;
$RL              = $lcsh->is_RsubsetL;
$eqv             = $lcsh->is_LequivalentR;
$disj            = $lcsh->is_LdisjointR;
                 $lcsh->print_subset_chart;
                 $lcsh->print_equivalence_chart;
@memb_arr        = $lsch->is_member_which('abel');
$memb_arr_ref    = $lsch->is_member_which_ref('baker');
$memb_hash_ref   = $lsch->are_members_which(
                 [ qw| abel baker fargo hilton zebra | ] );
$found          = $lsch->is_member_any('abel');
$memb_hash_ref   = $lsch->are_members_any(
                 [ qw| abel baker fargo hilton zebra | ] );
$vers           = $lcsh->get_version;
$unique_all_ref  = $lcsh->get_unique_all();
$complement_all_ref = $lcsh->get_complement_all();

```

=item * Accelerated Mode and Seen-Hashes

To accelerate processing when you want only a single comparison among two or more lists, you can pass C<'-a'> or C<'--accelerated'> to the constructor before passing references to seen-hashes.

```
$lcsha = List::Compare->new('-a', \%Llist, \%Rlist);
```

To compare three or more lists simultaneously, pass three or more references to seen-hashes. Thus,

```
$lcshm = List::Compare->new(\%Alpha, \%Beta, \%Gamma);
```

will generate meaningful comparisons of three or more lists simultaneously.

=item

* Unsorted Results and Seen-Hashes

If you do not need sorted lists returned, pass C<'-u'> or C<'--unsorted'> to the constructor before passing references to seen-hashes.

```

$lcshu = List::Compare->new('-u', \%Llist, \%Rlist);
$lcshau = List::Compare->new('-u', '-a', \%Llist, \%Rlist);
$lcshmu = List::Compare->new('--unsorted', \%Alpha, \%Beta, \%Gamma);

```


As was true when we were using List::Compare's Multiple and Multiple Accelerated modes, do not count any unsorted or accelerated option when determining the array index of a particular seen-hash reference passed to the constructor.

=item * Alternative Constructor

The 'single hashref' form of constructor is also available to build List::Compare objects where seen-hashes are used as arguments:

```
$lcshu = List::Compare->new( {  
    unsorted => 1,  
    lists    => [\%Llist, \%Rlist],  
} );
```

```
$lcshau = List::Compare->new( {  
    unsorted  => 1,  
    accelerated => 1,  
    lists     => [\%Llist, \%Rlist],  
} );
```

```
$lcshmu = List::Compare->new( {  
    unsorted => 1,  
    lists    => [\%Alpha, \%Beta, \%Gamma],  
} );
```

=back

=head1 DISCUSSION: Principles

=head2 General Comments

List::Compare is an object-oriented implementation of very common Perl code (see "History, References and Development" below) used to determine interesting relationships between two or more lists at a time. A List::Compare object is created and automatically computes the values needed to supply List::Compare methods with appropriate results. In the current implementation List::Compare methods will return new lists containing the items found in any designated list alone (unique), any list other than a designated list (complement), the intersection and union of all lists and so forth. List::Compare also has (a) methods to return Boolean values indicating whether one list is a subset of another and whether any two lists are equivalent to each other (b) methods to pretty-print very simple charts displaying the subset and equivalence relationships among lists.

Except for List::Compare's C<get_bag()> method, B<multiple instances of

an element in a given list count only once with respect to computing the intersection, union, etc. of the two lists.> In particular, List::Compare considers two lists as equivalent if each element of the first list can be found in the second list and I<vice versa>. 'Equivalence' in this usage takes no note of the frequency with which elements occur in either list or their order within the lists. List::Compare asks the question: I<Did I see this item in this list at all?> Only when you use C<List::Compare::get_bag()> to compute a bag holding the two lists do you ask the question: How many times did this item occur in this list?

=head2 List::Compare Modes

In its current implementation List::Compare has four modes of operation.

=over 4

=item *

Regular Mode

List::Compare's Regular mode is based on List::Compare v0.11 -- the first version of List::Compare released to CPAN (June 2002). It compares only two lists at a time. Internally, its initializer does all computations needed to report any desired comparison and its constructor stores the results of these computations. Its public methods merely report these results.

This approach has the advantage that if you need to examine more than one form of comparison between two lists (I<e.g.,> the union, intersection and symmetric difference of two lists), the comparisons are pre-calculated. This approach is efficient because certain types of comparison presuppose that other types have already been calculated. For example, to calculate the symmetric difference of two lists, one must first determine the items unique to each of the two lists.

=item *

Accelerated Mode

The current implementation of List::Compare offers you the option of getting even faster results I<provided> that you only need the result from a I<single> form of comparison between two lists.

(I<e.g.,> only the union -- nothing else). In the Accelerated mode, List::Compare's initializer does no computation and its constructor stores only references to the two source lists. All computation needed to report results is deferred to the method calls.

The user selects this approach by passing the option flag C<'a'> to the constructor before passing references to the two source lists.

List::Compare notes the option flag and silently switches into Accelerated mode. From the perspective of the user, there is no further difference in the code or in the results.

Benchmarking suggests that List::Compare's Accelerated mode (a) is faster than its Regular mode when only one comparison is requested; (b) is about as fast as Regular mode when two comparisons are requested; and (c) becomes considerably slower than Regular mode as each additional comparison above two is requested.

=item *

Multiple Mode

List::Compare now offers the possibility of comparing three or more lists at a time.

Simply store the extra lists in arrays and pass references to those arrays to the constructor. List::Compare detects that more than two lists have been passed to the constructor and silently switches into Multiple mode.

As described in the Synopsis above, comparing more than two lists at a time offers you a wider, more complex palette of comparison methods.

Individual items may appear in just one source list, in all the source lists, or in some number of lists between one and all. The meaning of 'union', 'intersection' and 'symmetric difference' is conceptually unchanged when you move to multiple lists because these are properties of all the lists considered together. In contrast, the meaning of 'unique', 'complement', 'subset' and 'equivalent' changes because these are properties of one list compared with another or with all the other lists combined.

List::Compare takes this complexity into account by allowing you to pass arguments to the public methods requesting results with respect to a specific list (for C<get_unique()> and C<get_complement()>) or a specific pair of lists (for C<is_LsubsetR()> and C<is_LequivalentR()>).

List::Compare further takes this complexity into account by offering the new methods C<get_shared()> and C<get_nonintersection()> described in the Synopsis above.

=item *

Multiple Accelerated Mode

Beginning with version 0.25, introduced in April 2004, List::Compare

offers the possibility of accelerated computation of a single comparison among three or more lists at a time. Simply store the extra lists in arrays and pass references to those arrays to the constructor preceded by the C<'a'> argument as was done with the simple (two lists only) accelerated mode. List::Compare detects that more than two lists have been passed to the constructor and silently switches into Multiple Accelerated mode.

=item *

Unsorted Option

When List::Compare is used to return lists representing various comparisons of two or more lists (I<e.g.>, the lists' union or intersection), the lists returned are, by default, sorted using Perl's default C<sort> mode: ASCII-betical sorting. Sorting produces results which are more easily human-readable but may entail a performance cost.

Should you not need sorted results, you can avoid the potential performance cost by calling List::Compare's constructor using the unsorted option. This is done by calling C<'u'> or C<'--unsorted'> as the first argument passed to the constructor, I<i.e.>, as an argument called before any references to lists are passed to the constructor.

Note that if are calling List::Compare in the Accelerated or Multiple Accelerated mode I<and> wish to have the lists returned in unsorted order, you I<first> pass the argument for the unsorted option (C<'u'> or C<'--unsorted'>) and I<then> pass the argument for the Accelerated mode (C<'a'> or C<'--accelerated'>).

=back

=head2 Miscellaneous Methods

It would not really be appropriate to call C<get_shared()> and C<get_nonintersection()> in Regular or Accelerated mode since they are conceptually based on the notion of comparing more than two lists at a time. However, there is always the possibility that a user may be comparing only two lists (accelerated or not) and may accidentally call one of those two methods. To prevent fatal run-time errors and to caution you to use a more appropriate method, these two methods are defined for Regular and Accelerated modes so as to return suitable results but also generate a carp message that advise you to re-code.

Similarly, the method C<is_RsubsetL()> is appropriate for the Regular and Accelerated modes but is not really appropriate for Multiple mode. As a

defensive maneuver, it has been defined for Multiple mode so as to return suitable results but also to generate a carp message that advises you to re-code.

In List::Compare v0.11 and earlier, the author provided aliases for various methods based on the supposition that the source lists would be referred to as 'A'

and 'B'. Now that you can compare more than two lists at a time, the author feels that it would be more appropriate to refer to the elements of two-argument lists as the left-hand and right-hand elements. Hence, we are discouraging the use of methods such as C<get_Aonly()>, C<get_Bonly()> and C<get_AorBonly()> as aliases for C<get_unique()>, C<get_complement()> and C<get_symmetric_difference()>. However, to guarantee backwards compatibility for the vast audience of Perl programmers using earlier versions of List::Compare (all 10e1 of you) these and similar methods for subset relationships are still defined.

=head2 List::Compare::SeenHash Discontinued Beginning with Version 0.26

Prior to v0.26, introduced April 11, 2004, if a user wished to pass references to seen-hashes to List::Compare's constructor rather than references to arrays, he or she had to call a different, parallel module: List::Compare::SeenHash. The code for that looked like this:

```
use List::Compare::SeenHash;
```

```
my %Llist = (  
    abel    => 2,  
    baker   => 1,  
    camera  => 1,  
    delta   => 1,  
    edward  => 1,  
    fargo   => 1,  
    golfer  => 1,  
);
```

```
my %Rlist = (  
    baker   => 1,  
    camera  => 1,  
    delta   => 2,  
    edward  => 1,  
    fargo   => 1,  
    golfer  => 1,  
    hilton  => 1,  
);
```

```
my $lcsh = List::Compare::SeenHash->new(\%Llist, \%Rlist);
```

B<List::Compare::SeenHash is deprecated beginning with version 0.26.> All its functionality (and more) has been implemented in List::Compare itself, since a user can now pass I<either> a series of array references I<or> a series of seen-hash references to List::Compare's constructor.

To simplify future maintenance of List::Compare, List::Compare::SeenHash.pm will no longer be distributed with List::Compare, nor will the files in the test suite which tested List::Compare::SeenHash upon installation be distributed.

Should you still need List::Compare::SeenHash, use version 0.25 from CPAN, or simply edit your Perl programs which used List::Compare::SeenHash. Those scripts may be edited quickly with, for example, this editing command in Unix text editor F<vi>:

```
:1,$s/List::Compare::SeenHash/List::Compare/gc
```

=head2 A Non-Object-Oriented Interface: List::Compare::Functional

Version 0.21 of List::Compare introduced List::Compare::Functional, a functional (I<i.e.>, non-object-oriented) interface to list comparison functions. List::Compare::Functional supports the same functions currently supported by List::Compare. It works similar to List::Compare's Accelerated and Multiple Accelerated modes (described above), but it does not require use of the C<'-a'> flag in the function call.

List::Compare::Functional will return unsorted comparisons of two lists by passing C<'-u'> or C<'--unsorted'> as the first argument to the function. Please see the documentation for List::Compare::Functional to learn how to import its functions into your main package.

=head1

ASSUMPTIONS AND QUALIFICATIONS

The program was created with Perl 5.6. The use of I<h2xs> to prepare the module's template installed C<require 5.005_62;> at the top of the module. This has been commented out in the actual module as the code appears to be compatible with earlier versions of Perl; how earlier the author cannot say. In particular, the author would like the module to be installable on older versions of MacPerl. As is, the author has successfully installed the module on Linux, Windows 9x and Windows 2000. See L<<http://testers.cpan.org/show/List-Compare.html>> for a list of other systems on which this version of List::Compare has been tested and installed.

=head1 HISTORY, REFERENCES AND DEVELOPMENT

=head2 The Code Itself

List::Compare is based on code presented by Tom Christiansen & Nathan Torkington in *Perl Cookbook* L<<http://www.oreilly.com/catalog/cookbook/>> (a.k.a. the 'Ram' book), O'Reilly & Associates, 1998, Recipes 4.7 and 4.8. Similar code is presented in the Camel book: *Programming Perl*, by Larry Wall, Tom Christiansen, Jon Orwant. L<<http://www.oreilly.com/catalog/ppperl3/>>, 3rd ed, O'Reilly & Associates, 2000. The list comparison code is so basic and Perl-ish that I suspect it may have been written by Larry himself at the dawn of Perl time. The C<get_bag()> method was inspired by Jarkko Hietaniemi's Set::Bag module and Daniel Berger's Set::Array module, both available on CPAN.

List::Compare's original objective was simply to put this code in a modular, object-oriented framework. That framework, not surprisingly, is taken mostly from Damian Conway's *Object Oriented Perl* L<<http://www.manning.com/Conway/index.html>>, Manning Publications, 2000.

With the addition of the Accelerated, Multiple and Multiple Accelerated modes, List::Compare expands considerably in both size and capabilities. Nonetheless, Tom and Nat's *Perl Cookbook* code still lies at its core: the use of hashes as look-up tables to record elements seen in lists. Please

note: List::Compare is not concerned with any concept of 'equality' among lists which hinges upon the frequency with which, or the order in which, elements appear in the lists to be compared. If this does not meet your needs, you should look elsewhere or write your own module.

=head2 The Inspiration

I realized the usefulness of putting the list comparison code into a module while preparing an introductory level Perl course given at the New School University's Computer Instruction Center in April-May 2002. I was comparing lists left and right. When I found myself writing very similar functions in different scripts, I knew a module was lurking somewhere. I learned the truth of the mantra "Repeated Code is a Mistake" from a 2001 talk by Mark-Jason Dominus L<<http://perl.plover.com/>> to the New York Perl-mongers L<<http://ny.pm.org/>>. See L<<http://www.perl.com/pub/a/2000/11/repair3.html>>.

The first public presentation of this module took place at Perl Seminar New York L<<http://groups.yahoo.com/group/perlsemny>> on May 21, 2002. Comments and suggestions were provided there and since by Glenn Maciag, Gary Benson, Josh Rabinowitz, Terrence Brannon and Dave Cross.

The placement in the installation tree of Test::ListCompareSpecial came as a result of a question answered by Michael Graham in his talk "Test::More to Test::Extreme" given at Yet Another Perl Conference::Canada

in Ottawa, Ontario, on May 16, 2003.

In May-June 2003, Glenn Maciag made valuable suggestions which led to changes in method names and documentation in v0.20.

Another presentation at Perl Seminar New York in October 2003 prompted me to begin planning List::Compare::Functional.

In a November 2003 Perl Seminar New York presentation, Ben Holtzman discussed the performance costs entailed in Perl's C<sort> function. This led me to ask, "Why should a user of List::Compare pay this performance cost if he or she doesn't need a human-readable list as a result (as would be the case if the list returned were used as the input into some other function)?" This led to the development of List::Compare's unsorted option.

An April 2004 offer by Kevin Carlson to write an article for I<The Perl Journal> (L<<http://tpj.com>>) led me to re-think whether a separate module (the former List::Compare::SeenHash) was truly needed when a user wanted to provide the constructor with references to seen-hashes rather than references to arrays. Since I had already adapted List::Compare::Functional to accept both kinds of arguments, I adapted List::Compare in the same manner. This meant that List::Compare::SeenHash and its related installation tests could be deprecated and deleted from the CPAN distribution.

A remark by David H. Adler at a New York Perlmongers meeting in April 2004 led me to develop the 'single hashref' alternative constructor format, introduced in version 0.29 the following month.

Presentations at two different editions of Yet Another Perl Conference (YAPC) inspired the development of List::Compare versions 0.30 and 0.31. I was selected to give a talk on List::Compare at YAPC::NA::2004 in Buffalo. This spurred me to improve certain aspects of the documentation. Version 0.31 owes its inspiration to one talk at the Buffalo YAPC and one earlier talk at YAPC::EU::2003 in Paris. In Paris I heard Paul Johnson speak on his CPAN module Devel::Cover and on coverage analysis more generally. That material was over my head at that time, but in Buffalo I heard Andy Lester discuss Devel::Cover as part of his discussion of testing and of the Phalanx project (L<<http://qa.perl.org/phalanx>>). This time I got it, and when I returned from Buffalo I applied Devel::Cover to List::Compare and wrote additional tests to improve its subroutine and statement coverage. In addition, I added two new methods, C<get_unique_all> and C<get_complement_all>. In writing these two methods, I followed a model of test-driven development much more so than in earlier versions of List::Compare and my other CPAN modules. The result? List::Compare's test suite grew by over 3300 tests to nearly 23,000 tests.

At the Second New York Perl Hackathon (May 02 2015), a project was created to request performance improvements in certain List::Compare functions ([L<https://github.com/nyperlmongers/nyperlhackathon2015/wiki/List-Compare-Performance-Improvements>](https://github.com/nyperlmongers/nyperlhackathon2015/wiki/List-Compare-Performance-Improvements)). Hackathon participant Michael Rawson submitted a pull request with changes to List::Compare::Base::_Auxiliary. After these revisions were benchmarked, a patch embodying the pull request was accepted, leading to CPAN version 0.53.

=head2 If You Like List::Compare, You'll Love ...

While preparing this module for distribution via CPAN, I had occasion to study a number of other modules already available on CPAN. Each of these modules is more sophisticated than List::Compare -- which is not surprising since all that List::Compare originally aspired to do was to avoid typing Cookbook code repeatedly. Here is a brief description of the features of these modules. (B<Warning:> The following discussion is only valid as of June 2002. Some of these modules may have changed since then.)

=over 4

=item *

Algorithm::Diff - Compute 'intelligent' differences between two files/lists ([L<http://search.cpan.org/dist/Algorithm-Diff/>](http://search.cpan.org/dist/Algorithm-Diff/))

Algorithm::Diff is a sophisticated module originally written by Mark-Jason Dominus, later maintained by Ned Konz, now maintained by Tye McQueen. Think of the Unix C<diff> utility and you're on the right track. Algorithm::Diff exports methods such as C<diff>, which "computes the smallest set of additions and deletions necessary to turn the first sequence into the second, and returns a description of these changes." Algorithm::Diff is mainly concerned with the sequence of elements within two lists. It does not export functions for intersection, union, subset status, etc.

=item *

Array::Compare - Perl extension for comparing arrays ([L<http://search.cpan.org/dist/Array-Compare/>](http://search.cpan.org/dist/Array-Compare/))

Array::Compare, by Dave Cross, asks whether two arrays are the same or different by doing a C<join> on each string with a separator character and comparing the resulting strings. Like List::Compare, it is an object-oriented module. A sophisticated feature of Array::Compare is that it allows you to specify how 'whitespace' in an array (an element which is undefined, the empty string, or whitespace

within an element) should be evaluated for purpose of determining equality or difference. It does not directly provide methods for intersection and union.

=item *

List::Util - A selection of general-utility list subroutines
(L<<http://search.cpan.org/dist/Scalar-List-Utils/>>)

List::Util, by Graham Barr, exports a variety of simple, useful functions for operating on one list at a time. The C<min> function returns the lowest numerical value in a list; the C<max> function returns the highest value; and so forth. List::Compare differs from List::Util in that it is object-oriented and that it works on two strings at a time rather than just one -- but it aims to be as simple and useful as List::Util. List::Util will be included in the standard Perl distribution as of Perl 5.8.0.

Lists::Util (L<<http://search.cpan.org/dist/List-MoreUtils/>>), by Tassilo von Parseval, building on code by Terrence Brannon, provides methods which extend List::Util's functionality.

=item *

Quantum::Superpositions
(L<<http://search.cpan.org/dist/Quantum-Superpositions/>>), originally by Damian Conway, now maintained by Steven Lembark is useful if, in addition to comparing lists, you need to emulate quantum supercomputing as well. Not for the eigen-challenged.

=item *

Set::Scalar - basic set operations
(L<<http://search.cpan.org/dist/Set-Scalar/>>)

Set::Bag - bag (multiset) class
(L<<http://search.cpan.org/dist/Set-Bag/>>)

Both of these modules are by Jarkko Hietaniemi. Set::Scalar has methods to return the intersection, union, difference and symmetric difference of two sets, as well as methods to return items unique to a first set and complementary to it in a second set. It has methods for reporting considerably more variants on subset status than does List::Compare. However, benchmarking suggests that List::Compare, at

least in Regular mode, is considerably faster than Set::Scalar for those comparison methods which List::Compare makes available.

Set::Bag enables one to deal more flexibly with the situation in which one has more than one instance of an element in a list.

=item *

Set::Array - Arrays as objects with lots of handy methods (including set comparisons) and support for method chaining.

(L<<http://search.cpan.org/dist/Set-Array/>>)

Set::Array, by Daniel Berger, now maintained by Ron Savage, "aims to provide built-in methods for operations that people are always asking how to do, and which already exist in languages like Ruby." Among the many methods in this module are some for intersection, union, etc. To install Set::Array, you must first install the Want module, also available on CPAN.

=back

=head1 ADDITIONAL CONTRIBUTORS

=over 4

=item * Syohei YOSHIDA

Pull request accepted May 22 2015.

=item * Paulo Custodio

Pull request accepted June 07 2015, correcting errors in C<_subset_subengine()>.

=back

=head1 BUGS

There are no bug reports outstanding on List::Compare as of the most recent CPAN upload date of this distribution.

=head1 SUPPORT

Please report any bugs by mail to C<bug-List-Compare@rt.cpan.org> or through the web interface at L<<http://rt.cpan.org>>.

=head1 AUTHOR

James E. Keenan (jkeen@cpa.org). When sending correspondence, please

include 'List::Compare' or 'List-Compare' in your subject line.

Creation date: May 20, 2002. Last modification date: June 07 2015.

Development repository: L<<https://github.com/jkeenán/list-compare>>

=head1 COPYRIGHT

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itself.

=head1

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=cut

Found in path(s):

* /liblist-compare-perl-0-53-orig-1-tar-gz/List-Compare-0.53/lib/List/Compare.pm

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

=head1 NAME

List::Compare::Base::_Auxiliary - Internal use only

=head1 VERSION

This document refers to version 0.53 of List::Compare::Base::_Auxiliary.
This version was released June 07 2015.

=head1 SYNOPSIS

This module contains subroutines used within List::Compare and
List::Compare::Functional. They are not intended to be publicly callable.

=head1 AUTHOR

James E. Keenan (jkeenan@cpan.org). When sending correspondence, please
include 'List::Compare' or 'List-Compare' in your subject line.

Creation date: May 20, 2002. Last modification date: February 25 2015.
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=cut

Found in path(s):

* /liblist-compare-perl-0-53-orig-1-tar-gz/List-Compare-0.53/lib/List/Compare/Base/_Auxiliary.pm

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

=pod

=begin wikidoc

= NAME

IO::CaptureOutput - capture STDOUT and STDERR from Perl code, subprocesses or XS

= VERSION

This documentation describes version %%VERSION%%.

= SYNOPSIS

```
use IO::CaptureOutput qw(capture capture_exec);
```

```
my ($stdout, $stderr);
```

```
sub noisy {  
    warn "this sub prints to stdout and stderr!";  
    print "arguments: @_";  
}
```

```
capture sub {noisy(@args)}, \ $stdout, \ $stderr;
```

```
( $stdout, $stderr) = capture_exec( 'perl', '-e',  
    'print "Hello"; print STDERR "World!"');
```

= DESCRIPTION

This module provides routines for capturing STDOUT and STDERR from perl subroutines, forked system calls (e.g. {system()}, {fork()}) and from XS or C modules.

= FUNCTIONS

The following functions will be exported on demand.

== capture()

```
capture(\&subroutine, \ $stdout, \ $stderr);
```

Captures everything printed to {STDOUT} and {STDERR} for the duration of {&subroutine}. { \$stdout} and { \$stderr} are optional scalars that will contain {STDOUT} and {STDERR} respectively.

Returns the return value(s) of {&subroutine}. The sub is called in the same context as {capture()} was called e.g.:

```
@rv = capture(sub {wantarray}); # returns true  
$rv = capture(sub {wantarray}); # returns defined, but not true  
capture(sub {wantarray});      # void, returns undef
```

{capture()} is able to capture output from subprocesses and C code, which traditional {tie()} methods of output capture are unable to do.

If the two scalar references refer to the same scalar, then {STDERR} will be merged to {STDOUT} before capturing and the scalar will hold the combined output of both.

```
capture(\&subroutine, \ $combined, \ $combined);
```

**Note:* {capture()} will only capture output that has been written or flushed to the filehandle.

== capture_exec()

```
( $stdout, $stderr) = capture_exec(@args);
```

Captures and returns the output from {system(@args)}. In scalar context,

```
{capture_exec()}
```

will return what was printed to {STDOUT}. In list context, it returns what was printed to {STDOUT} and {STDERR}

```
$stdout = capture_exec('perl', '-e', 'print "hello world"');
```

```
($stdout, $stderr) = capture_exec('perl', '-e', 'warn "Test"');
```

{capture_exec} passes its arguments to {system()} and on MSWin32 will protect arguments with shell quotes if necessary. This makes it a handy and slightly more portable alternative to backticks, piped {open()} and {IPC::Open3}.

You can check the exit status of the {system()} call with the { \$? } variable. See [perlvar] for more information.

```
== capture_exec_combined()
```

```
$combined = capture_exec_combined(  
    'perl', '-e', 'print "hello\n"', 'warn "Test\n"  
);
```

This is just like {capture_exec()}, except that it merges {STDERR} with {STDOUT} before capturing output and returns a single scalar.

Note: there is no guarantee that text printed to {STDOUT} and {STDERR} in the subprocess will be appear in order. The actual order will depend on how IO buffering is handled in the subprocess.

```
== qxx()
```

This is an alias for {capture_exec()}.

```
== qxy()
```

This is an alias for {capture_exec_combined()}.

= SEE ALSO

* [IPC::Open3]

* [IO::Capture]

* [IO::Utils]

= AUTHORS

* Simon Flack <simonflk_AT_cpan.org> (original author)

* David Golden <dagolden_AT_cpan.org> (co-maintainer since version 1.04)

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=end wikidoc

=cut

Found in path(s):

* /liblist-compare-perl-0-53-orig-1-tar-gz/List-Compare-0.53/t/IO/CaptureOutput.pm

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

=head1 NAME

List::Compare::Base::_Engine - Internal use only

=head1 VERSION

This document refers to version 0.53 of List::Compare::Base::_Engine.

This version was released June 07 2015.

=head1 SYNOPSIS

This module contains subroutines used within List::Compare and List::Compare::Functional. They are not intended to be publicly callable.

=head1 AUTHOR

James E. Keenan (jkeenan@cpan.org). When sending correspondence, please include 'List::Compare' or 'List-Compare' in your subject line.

Creation date: May 20, 2002. Last modification date: June 07 2015.

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This is free software and may be distributed under the same terms as Perl itself.

=cut

Found in path(s):

* /liblist-compare-perl-0-53-orig-1-tar-gz/List-Compare-0.53/lib/List/Compare/Base/_Engine.pm

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

abstract: 'Compare elements of two or more lists'

author:
- 'James E Keenan (jkeenan@cpan.org)'
build_requires:
ExtUtils::MakeMaker: '0'
IO::CaptureOutput: '0'
Test::Simple: '0.1'
configure_requires:
ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.02, CPAN::Meta::Converter version 2.142690'
license: perl
meta-spec:
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>
version: '1.4'
name: List-Compare
no_index:
directory:
- t
- inc
resources:
bugtracker: <https://rt.cpan.org/Public/Dist/Display.html?Name=List-Compare>
homepage: <http://thenceforward.net/perl/modules/List-Compare/>
repository: <https://github.com/jkeenan/list-compare.git>
version: '0.53'

Found in path(s):

* /liblist-compare-perl-0-53-orig-1-tar-gz/List-Compare-0.53/META.yml

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

List::Compare - Compare elements of two or more lists

This document refers to version 0.53 of List::Compare. This version was released June 07 2015.

To install this module on your system, place the tarball archive file in a temporary directory and call the following:

```
% gunzip List-Compare-0.53.tar.gz
% tar xf List-Compare-0.53.tar
% cd List-Compare-0.53
% perl Makefile.PL
% make
% make test
% make install
```

If during installation you wish to view more information on test results, substitute the following for the sixth line in the sequence of commands above:

```
% make test TEST=VERBOSE
```

If you are installing this module over any earlier version, you may substitute the following for the last line in the sequence of commands above:

```
% make install UNINST=1
```

If you are installing this module on a Win32 system with 'nmake', substitute 'nmake' for 'make' in the sequence of commands above.

The author has found that trying
to install this distribution with

(a) older (pre-6.16) versions of ExtUtils::MakeMaker, (b) on older versions of Perl (e.g., 5.6.0), and (c) on older Linux distributions (e.g., RedHat Linux 7.3) can result in a situation where the module's Plain Old Documentation, when transformed into manual pages, is not automatically placed in the optimal location for reading thru 'man' and 'info' (even though it reads perfectly through 'perldoc'). If you experience this problem, issue the following at the command line (adapted from a suggestion by Michael Schwern on the module-authors mailing list):

```
% perl Makefile.PL INSTALLSITEMAN3DIR=/usr/share/man/man3
```

List::Compare uses the Carp module which is part of the standard Perl distribution. Other than that, there are no module dependencies in this version of List::Compare.

Certain methods in this version of List::Compare are included solely for backwards compatibility with earlier versions and are deprecated. When called, they print warning messages via Carp. In earlier versions of List::Compare these warning messages would appear when you called 'make test' as part of the installation process. This was harmless but annoying and has been fixed.

Beginning with version 0.25 in April 2004, there is a modification to the interface of two methods/functions: `are_members_which()` and `are_members_any()`. Whereas previously the strings to be tested could be passed to the subroutine either as a flat list or via a reference to an anonymous array, now those items must be passed via reference to an anonymous array.

Beginning with version 0.26 in April 2004, the functionality previously found in List::Compare::SeenHash has been incorporated directly into List::Compare. Hence, List::Compare::SeenHash and the test suite files

associated with it have been deprecated and are no longer included in the CPAN distribution. Please see the List::Compare documentation for further details.

In sending e-mail to the author, please put "List::Compare"
or
"List-Compare" in the subject line.

Author: James E. Keenan (jkeen@cpan.org).
Originally created May 20, 2002.

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Found in path(s):
* /liblist-compare-perl-0-53-orig-1-tar-gz/List-Compare-0.53/README
No license file was found, but licenses were detected in source scan.

=head1 NAME

List::Compare::Functional - Compare elements of two or more lists

=head1 VERSION

This document refers to version 0.53 of List::Compare::Functional.
This version was released June 07 2015. The first released
version of List::Compare::Functional was v0.21. Its version numbers
are set to be consistent with the other parts of the List::Compare
distribution.

=head2 Notice of Interface Changes

Certain significant changes to the interface to List::Compare::Functional
were made with the introduction of Version 0.25 in April 2004. The
documentation immediately below reflects those changes, so if you are
first using this module with that or a later version, simply read and
follow the documentation below. If, however, you used List::Compare::Functional
prior to that version, see the discussion of interface changes farther
below: April 2004 Change of Interface.

=head1 SYNOPSIS

=head2 Getting Started

List::Compare::Functional
exports no subroutines by default.

```
use List::Compare::Functional qw(:originals :aliases);
```

will import all publicly available subroutines from List::Compare::Functional. The model for importing just one subroutine from List::Compare::Functional is:

```
use List::Compare::Functional qw( get_intersection );
```

It will probably be most convenient for the user to import functions by using one of the two following export tags:

```
use List::Compare::Functional qw(:main :mainrefs);
```

The assignment of the various comparison functions to export tags is discussed below.

For clarity, we shall begin by discussing comparisons of just two lists at a time. Farther below, we shall discuss comparisons among three or more lists at a time.

=head2 Comparing Two Lists Held in Arrays

=over 4

=item *

Given two lists:

```
@Llist = qw(abel abel baker camera delta edward fargo golfer);  
@Rlist = qw(baker camera delta delta edward fargo golfer hilton);
```

=item *

Get those items
which appear at least once in both lists (their intersection).

```
@intersection = get_intersection( [ \@Llist, \@Rlist ] );
```

Note that you could place the references to the lists being compared into a named array and then pass C<get_intersection()> a reference to that array.

```
@to_be_compared = ( \@Llist, \@Rlist );  
@intersection = get_intersection( \@to_be_compared );
```

Beginning with version 0.29 (May 2004), List::Compare::Functional now offers an additional way of passing arguments to its various functions. If you prefer to see a more explicit delineation among the types of arguments passed to a function, pass a single hash reference which holds the lists being

compared in an anonymous array which is the value corresponding to key C<lists>:

```
@intersection = get_intersection( {  
    lists => [ \@Llist, \@Rlist ],  
} );
```

=item *

Get those items which appear at least once in either list (their union).

```
@union = get_union( [ \@Llist, \@Rlist ] );
```

or

```
@union  
= get_union( { lists => [ \@Llist, \@Rlist ] } );
```

=item *

Get those items which appear (at least once) only in the first list.

```
@Lonly = get_unique( [ \@Llist, \@Rlist ] );
```

or

```
@Lonly = get_unique( { lists => [ \@Llist, \@Rlist ] } );
```

=item *

Get those items which appear (at least once) only in the second list.

```
@Ronly = get_complement( [ \@Llist, \@Rlist ] );
```

or

```
@Ronly = get_complement( { lists => [ \@Llist, \@Rlist ] } );
```

=item *

```
@LorRonly = get_symmetric_difference( [ \@Llist, \@Rlist ] );
```

```
@LorRonly = get_symdiff( [ \@Llist, \@Rlist ] );    # alias
```

or

```
@LorRonly = get_symmetric_difference( { lists => [ \@Llist, \@Rlist ] } );
```

=item *

Make a bag of all those items in both lists. The bag differs from the union of the two lists in that it holds as many copies of individual elements as appear in the original lists.

```
@bag = get_bag( [ \@Llist, \@Rlist ] );
```

or

```
@bag = get_bag( { lists => [ \@Llist, \@Rlist ] } );
```

=item *

An alternative

approach to the above functions: If you do not immediately require an array as the return value of the function call, but simply need a I<reference> to an (anonymous) array, use one of the following parallel functions:

```
$intersection_ref = get_intersection_ref( [ \@Llist, \@Rlist ] );
$union_ref       = get_union_ref( [ \@Llist, \@Rlist ] );
$Lonly_ref       = get_unique_ref( [ \@Llist, \@Rlist ] );
$Ronly_ref       = get_complement_ref( [ \@Llist, \@Rlist ] );
$LorRonly_ref    = get_symmetric_difference_ref( [ \@Llist, \@Rlist ] );
$LorRonly_ref    = get_symdiff_ref( [ \@Llist, \@Rlist ] );
# alias
$bag_ref         = get_bag_ref( [ \@Llist, \@Rlist ] );
```

or

```
$intersection_ref =
  get_intersection_ref( { lists => [ \@Llist, \@Rlist ] } );
$union_ref       =
  get_union_ref( { lists => [ \@Llist, \@Rlist
] } );
$Lonly_ref       =
  get_unique_ref( { lists => [ \@Llist, \@Rlist ] } );
$Ronly_ref       =
  get_complement_ref( { lists => [ \@Llist, \@Rlist ] } );
$LorRonly_ref    =
  get_symmetric_difference_ref( { lists => [ \@Llist, \@Rlist ] } );
$LorRonly_ref    =
  get_symdiff_ref( { lists => [ \@Llist, \@Rlist ] } );
# alias
$bag_ref         =
  get_bag_ref( { lists => [ \@Llist, \@Rlist ] } );
```

=item *

Return a true value if the first list ('L' for 'left') is a subset of the second list ('R' for 'right').

```
$LR = is_LsubsetR( [ \@Llist, \@Rlist ] );
```

or

```
$LR = is_LsubsetR( { lists => [ \@Llist, \@Rlist ] } );
```

=item *

Return a true value if R is a subset of L.

```
$RL = is_RsubsetL( [ \@Llist, \@Rlist ] );
```

or

```
$RL = is_RsubsetL( { lists => [ \@Llist, \@Rlist ] } );
```

=item *

Return a true value if L and R are equivalent, I<i.e.,> if every element in

L appears at least once in R and I<vice versa>.

```
$eqv = is_LequivalentR( [ \@Llist, \@Rlist ] );  
$eqv = is_LeqvIntR( [ \@Llist, \@Rlist ] );      # alias
```

or

```
$eqv = is_LequivalentR( { lists => [ \@Llist, \@Rlist ] } );
```

=item *

Return a true value if L and R are disjoint, I<i.e.,> if L and R have no common elements.

```
$disj = is_LdisjointR( [ \@Llist, \@Rlist ] );
```

or

```
$disj = is_LdisjointR( { lists => [ \@Llist, \@Rlist ] } );
```

=item *

Pretty-print a chart showing whether one list is a subset of the other.

```
print_subset_chart( [ \@Llist, \@Rlist ] );
```

or

```
print_subset_chart( { lists => [ \@Llist, \@Rlist ] } );
```

=item *

Pretty-print a chart showing whether the two lists are equivalent (same elements found at least once in both).

```
print_equivalence_chart( [ \@Llist, \@Rlist ] );
```

or

```
print_equivalence_chart( { lists => [ \@Llist, \@Rlist ] } );
```

=item *

Determine in I<which> (if any) of the lists a given string can be found.

In list context,

return a list of those indices in the argument list

corresponding to lists holding the string being tested.

```
@memb_arr = is_member_which( [ \@Llist, \@Rlist ] , [ 'abel' ] );
```

or

```
@memb_arr = is_member_which( {  
  lists => [ \@Llist, \@Rlist ] , # value is array reference  
  item => 'abel',                # value is string  
} );
```

In the example above, C<@memb_arr> will be:

```
( 0 )
```

because C<'abel'> is found only in C<@A1> which holds position C<0> in the list of arguments passed to C<new()>.

=item *

As with other List::Compare::Functional functions which return a list, you may wish the above function returned a (scalar) reference to an array holding the list:

```
$memb_arr_ref = is_member_which_ref( [ \@Llist, \@Rlist ] , [ 'baker' ] );
```


or

```
$memb_arr_ref = is_member_which_ref( {  
  lists => [ \@Llist, \@Rlist ], # value is array reference  
  item => 'baker',             # value is string  
} );
```

In the example above, C<\$memb_arr_ref>
will be:

```
[ 0, 1 ]
```

because C<'baker'> is found in C<@Llist> and C<@Rlist>, which hold positions
C<0> and C<1>, respectively, in the list of arguments passed to C<new()>.

B<Note:> functions C<is_member_which()> and C<is_member_which_ref> test
only one string at a time and hence take only one argument. To test more
than one string at a time see the next function, C<are_members_which()>.

=item *

Determine in C<which> (if any) of the lists passed as arguments one or
more given strings can be found. The lists beings searched are placed in an
array, a reference to which is the first argument passed to
C<are_members_which()>. The strings to be tested are also placed in an
array, a reference to which is the second argument passed to that function.

```
$memb_hash_ref =  
  are_members_which( [ \@Llist, \@Rlist ],  
                    [ qw| abel baker fargo hilton zebra | ]  
                  );
```

or

```
$memb_hash_ref = are_members_which( {  
  lists => [ \@Llist,  
  \@Rlist ],          # value is arrayref  
  items => [ qw| abel baker fargo hilton zebra | ], # value is arrayref  
} );
```

The return value is a reference to a hash of arrays. The
key for each element in this hash is the string being tested. Each element's
value is a reference to an anonymous array whose elements are those indices in
the constructor's argument list corresponding to lists holding the strings
being tested. In the examples above, C<\$memb_hash_ref> will be:

```
{  
  abel => [ 0 ],
```

```

    baker => [ 0, 1 ],
    fargo => [ 0, 1 ],
    hilton => [ 1 ],
    zebra => [ ],
};

```

B<Note:> C<are_members_which()> can take more than one argument;
C<is_member_which()> and C<is_member_which_ref()> each take only one argument.
Unlike those functions, C<are_members_which()> returns a hash reference.

=item *

Determine whether a given string can be found in I<any> of the lists passed as arguments. Return C<1>
if a specified string can be found in any of the lists
and C<0> if not.

```

$found = is_member_any( [ \@Llist, \@Rlist ], [ 'abel' ] );

```

or

```

$found = is_member_any( {
    lists => [ \@Llist, \@Rlist ], # value is array reference
    item => 'abel',                # value is string
} );

```

In the example above, C<\$found> will be C<1> because C<'abel'> is found in one or more of the lists passed as arguments to C<new()>.

=item *

Determine whether a specified string or strings can be found in I<any> of the lists passed as arguments. The lists beings searched are placed in an array, a reference to which is the first argument passed to C<are_members_any()>. The strings to be tested are also placed in an array, a reference to which is the second argument passed to that function.

```

$memb_hash_ref =
    are_members_any( [ \@Llist, \@Rlist ],
                    [ qw| abel baker fargo hilton zebra | ]
                    );

```

or

```

$memb_hash_ref = are_members_any(
{
    lists => [ \@Llist, \@Rlist ],          # value is arrayref
    items => [ qw| abel baker fargo hilton zebra | ], # value is arrayref
}

```

```
} );
```

The return value is a reference to a hash where an element's key is the string being tested and the element's value is C<1> if the string can be found in I<any> of the lists and C<0> if not. In the examples above, C<\$memb_hash_ref> will be:

```
{
  abel   => 1,
  baker  => 1,
  fargo  => 1,
  hilton => 1,
  zebra  => 0,
};
```

C<zebra>'s value is C<0> because C<zebra> is not found in either of the lists passed as arguments to C<are_members_any()>.

```
=item *
```

Return current List::Compare::Functional version number.

```
$vers = get_version;
```

```
=back
```

```
=head2 Comparing Three or More Lists Held in Arrays
```

Given five lists:

```
@Al   = qw(abel abel baker camera delta edward fargo golfer);
@Bob   = qw(baker camera delta delta edward fargo golfer hilton);
@Carmen
= qw(fargo golfer hilton icon icon jerky kappa);
@Don   = qw(fargo icon jerky);
@Ed    = qw(fargo icon icon jerky);
```

```
=over 4
```

```
=item *
```

Get those items which appear at least once in I<each> list (their intersection).

```
@intersection = get_intersection( [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ] );
```

or

```
@intersection = get_intersection( {
```

```
lists => [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ],
} );
```

=item *

Get those items which appear at least once in I<any> of the lists (their union).

```
@union = get_union( [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ] );
```

or

```
@union = get_union( {
  lists => [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ],
} );
```

=item *

To get those items which are unique to a particular list, provide C<get_unique()> with two array references. The first holds references to the arrays which in turn hold the individual lists being compared. The second holds the index position in the first reference of the particular list under consideration. Example:

To get elements unique to C<@Carmen>:

```
@Lonly = get_unique(
  [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ],
  [ 2 ]
);
```

or

```
@Lonly = get_unique( {
  lists => [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ], # value is arrayref
  item => 2,                                     # value is number
} );
```

If no index position is passed to C<get_unique()> it will default to C<0> and report items unique to the first list passed to the function. Hence,

```
@Lonly = get_unique( [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ] );
```

is same as:

```
@Lonly = get_unique( [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ], [ 0 ] );
```

=item *

Should you need to identify the items unique to I<each> of the lists under consideration, call C<get_unique_all> and get a reference to an array of

array references:

```
$unique_all_ref = get_unique_all(  
    [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ]  
);
```

or

```
$unique_all_ref = get_unique_all( {  
    lists => [ \@Al,  
    \@Bob, \@Carmen, \@Don, \@Ed ],  
    } );
```

=item *

To get those items which appear only in lists I<other than> one particular list, pass two array references to the C<get_complement()> function. The first holds references to the arrays which in turn hold the individual lists being compared. The second holds the index position in the first reference of the particular list under consideration. Example: to get all the elements found in lists other than C<@Don>:

```
@Ronly = get_complement(  
    [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ],  
    [ 3 ]  
);
```

or

```
@Ronly = get_complement( {  
    lists => [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ], # value is arrayref  
    item => 3, # value is number  
    } );
```

If no index position is passed to C<get_complement()> it will default to C<0> and report items found in all lists I<other than> the first list passed to C<get_complement()>.

```
@Lonly = get_complement( [ \@Al,  
    \@Bob, \@Carmen, \@Don, \@Ed ] );
```

is same as:

```
@Lonly = get_complement( [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ], [ 0 ] );
```

=item *

Should you need to identify the items not found in I<each> of the lists under

consideration, call C<get_complement_all> and get a reference to an array of array references:

```
$complement_all_ref = get_complement_all(  
  [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ]  
);
```

or

```
$complement_all_ref = get_complement_all( {  
  lists => [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ],  
} );
```

=item *

Get those items which do I<not> appear in I<more than one> of several lists (their symmetric_difference);

```
@LorRonly = get_symmetric_difference( [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ] );  
@LorRonly = get_syndiff( [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ] ); # alias
```

or

```
@LorRonly = get_symmetric_difference( {  
  lists => [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ],  
} );
```

=item *

Get those items found in I<any> of several lists which do I<not> appear in C<all> of the lists (I<i.e.,> all items except those found in the intersection of the lists):

```
@nonintersection = get_nonintersection(  
  [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ] );
```

or

```
@nonintersection = get_nonintersection( {  
  lists => [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ],  
} );
```

=item *

Get those items which appear in I<more than one> of several lists (I<i.e.,> all items except those found in their symmetric difference);

```
@shared = get_shared( [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ] );
```

or

```
@shared = get_shared( {  
  lists => [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ],  
} );
```

=item *

Make a bag of every item found in every list. The bag differs from the union of the two lists in that it holds as many copies of individual elements as appear in the original lists.

```
@bag = get_bag( [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ] );
```

or

```
@bag = get_bag( {  
  lists => [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ],  
} );
```

=item

*

An alternative approach to the above functions: If you do not immediately require an array as the return value of the function, but simply need a `I<reference>` to an array, use one of the following parallel functions:

```
$intersection_ref = get_intersection_ref(  
  [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ] );  
$union_ref       = get_union_ref(  
  [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ] );  
$Lonly_ref       = get_unique_ref(  
  [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ] );  
$Ronly_ref       = get_complement_ref(  
  [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ] );  
$LorRonly_ref    = get_symmetric_difference_ref(  
  [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ] );  
$LorRonly_ref    = get_syndiff_ref(      # alias  
  [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ] );  
$nonintersection_ref = get_nonintersection_ref(  
  [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ] );  
$shared_ref      = get_shared_ref(  
  [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ] );  
$bag_ref         = get_bag_ref(  
  [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ] );
```

=item *

To determine whether one particular list is a subset of another of the lists passed to the function, pass to C<is_LsubsetR()> two array references. The first of these is a reference to an array of array references, the arrays holding the lists under consideration. The second is a reference to a two-element array consisting of the index of the presumed subset, followed by the index position of the presumed superset. A true value (C<1>) is returned if the first (left-hand) element in the second reference list is a subset of the second (right-hand) element; a false value (C<0>) is returned otherwise.

Example: To determine whether C<@Ed> is a subset of C<@Carmen>, call:

```
$LR = is_LsubsetR(
    [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ],
    [ 4, 2 ]
);
```

or

```
$LR = is_LsubsetR( {
    lists => [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ], # value is arrayref
    pair => [ 4, 2 ],                               # value is arrayref
} );
```

If only the first reference (to the array of lists) is passed to C<is_LsubsetR>, then the function's second argument defaults to C<(0,1)> and compares the first two lists passed to the constructor. So,

```
$LR = is_LsubsetR([ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ] );
```

... is equivalent to:

```
$LR = is_LsubsetR([ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ], [0,1] );
```

=item *

To reverse the order in which the particular lists are evaluated for superset/subset status, call C<is_RsubsetL>:

```
$RL = is_RsubsetL([ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ], [2,4] );
```

or

```
$RL = is_RsubsetL( {
    lists => [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ],
```



```
pair => [ 2, 4 ],
} );
```

=item *

List::Compare::Functional

considers two lists to be equivalent if

every element in one list appears at least once in R and I<vice versa>.

To determine whether one particular list passed to the function is

equivalent to another of the lists passed to the function, provide

C<is_LequivalentR()> with two array references.

The first is a reference to an array of array

references, the arrays holding the lists under consideration. The

second of these is a reference to a two-element array consisting of the

two lists being tested for equivalence. A true value (C<1>) is returned if

the lists are equivalent; a false value (C<0>) is returned otherwise.

Example: To determine whether C<@Don> and C<@Ed> are equivalent, call:

```
$eqv = is_LequivalentR(
    [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ],
    [3,4]
);
```

```
$eqv = is_LeqvIntR(           # alias
    [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ],
    [3,4]
);
```

or

```
$eqv = is_LequivalentR( {
    items => [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ],
    pair => [3,4],
} );
```

If no arguments are passed, C<is_LequivalentR> defaults to C<[0,1]> and compares the first two lists passed to the function. So,

```
$eqv = is_LequivalentR( [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ] );
```

... translates to:

```
$eqv = is_LequivalentR( [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ], [0,1] );
```

=item *

To determine whether any two of the lists passed to the function are disjoint from one another (I<i.e.,> have no common members), provide C<is_LdisjointR()> with two array references.

The first is a reference to an array of array references, the arrays holding the lists under consideration. The second of these is a reference to a two-element array consisting of the two lists being tested for disjointedness. A true value (C<1>) is returned if the lists are disjoint; a false value (C<0>) is returned otherwise.

Example: To determine whether C<@Don> and C<@Ed> are disjoint, call:

```
$disj = is_LdisjointR(  
    [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ],  
    [3,4]  
);
```

or

```
$disj = is_LdisjointR( {  
    items => [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ],  
    pair => [3,4]  
} );
```

=item *

Pretty-print a chart showing the subset relationships among the various source lists:

```
print_subset_chart( [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ] );
```

or

```
print_subset_chart( { lists => [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ] } );
```

=item *

Pretty-print a chart showing the equivalence relationships among the various source lists:

```
print_equivalence_chart( [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ] );
```

or

```
print_equivalence_chart( { lists => [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ] } );
```

=item *

Determine in I<which> (if any) of several lists a given string can be found.
 Pass two array references, the first of which holds references to arrays
 holding the lists under consideration, and the second of which holds a
 single-item
 list consisting of the string being tested.

```
@memb_arr = is_member_which(
    [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ],
    [ 'abel' ]
);
```

or

```
@memb_arr = is_member_which( {
    lists => [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ], # value is arrayref
    item => 'abel',                               # value is string
} );
```

In list context, return a list of those indices in the function's
 argument list corresponding to lists holding the string being tested.
 In the example above, C<@memb_arr> will be:

```
( 0 )
```

because C<'abel'> is found only in C<@Al> which holds position C<0> in the
 list of arguments passed to C<is_member_which()>.

=item *

As with other List::Compare::Functional functions which return a list, you may
 wish the above function returned a reference to an array holding the list:

```
$memb_arr_ref = is_member_which_ref(
    [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ],

    [ 'jerky' ]
);
```

or

```
$memb_arr_ref = is_member_which_ref( {
    lists => [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ], # value is arrayref
    item => 'jerky',                               # value is string
} );
```

In the example above, C<\$memb_arr_ref> will be:

```
[ 3, 4 ]
```

because C<'jerky'> is found in C<@Don> and C<@Ed>, which hold positions C<3> and C<4>, respectively, in the list of arguments passed to C<is_member_which()>.

B<Note:> functions C<is_member_which()> and C<is_member_which_ref> test only one string at a time and hence take only one element in the second array reference argument. To test more than one string at a time see the next function, C<are_members_which()>.

=item *

Determine in C<which> (if any) of several lists one or more given strings can be found. Pass two array references, the first of which holds references to arrays holding the lists under consideration, and the second of which holds a list of the strings being tested.

```
$memb_hash_ref = are_members_which(
    [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ],
    [ qw| abel baker fargo hilton zebra | ]
);
```

or

```
$memb_hash_ref = are_members_which( {
    lists => [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ], # value is arrayref
    items => [ qw| abel baker fargo hilton zebra | ], # value is arrayref
} );
```

The return value is a reference to a hash of arrays. In this hash, each element's value is a reference to an anonymous array whose elements are those indices in the argument list corresponding to lists holding the strings being tested. In the two examples above, C<\$memb_hash_ref> will be:

```
{
  abel  => [ 0 ],
  baker => [ 0, 1 ],
  fargo => [ 0, 1, 2, 3, 4 ],
  hilton => [ 1, 2 ],
  zebra => [ ],
};
```

B<Note:> C<are_members_which()> tests more than one string at a time. Hence, its second array reference argument can take more than one element. C<is_member_which()> and C<is_member_which_ref()> each take only one element

in their second array reference arguments. C<are_members_which()> returns a hash reference; the other functions return either a list or a reference to an array holding that list, depending on context.

=item *

Determine whether a given string can be found in I<any> of several lists. Pass two array references, the first of which holds references to arrays holding the lists under consideration, and the second of which holds a single-item list of the string being tested.

```
$found = is_member_any(
    [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ],
    [ 'abel' ]
);
```

or

```
$found = is_member_any( {
    lists => [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ], # value is arrayref
    item  => 'abel',                               # value is string
} );
```

The return value is C<1> if a specified string can be found in I<any> of the lists and C<0> if not. In the example above, C<\$found> will be C<1> because C<abel> is found in one or more of the lists passed as arguments to C<is_member_any()>.

=item *

Determine whether a specified string or strings can be found in I<any> of several lists. Pass two array references, the first of which holds references to arrays holding the lists under consideration, and the second of which holds a list of the strings being tested.

```
$memb_hash_ref = are_members_any(
    [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ],
    [ qw| abel baker fargo hilton zebra | ]
);
```

or

```
$memb_hash_ref = are_members_any( {
    lists => [ \@Al, \@Bob, \@Carmen, \@Don, \@Ed ], # value is arrayref
    items => [ qw| abel baker fargo hilton zebra | ], # value is arrayref
} );
```

The return value is a reference to a hash where an element's key is the string being tested and the element's value is

C<1> if the string can be found in any of the lists and C<0> if not. In the example above, C<\$memb_hash_ref> will be:

```
{
  abel  => 1,
  baker => 1,
  fargo => 1,
  hilton => 1,
  zebra => 0,
};
```

C<zebra>'s value is C<0> because C<zebra> is not found in any of the lists passed as arguments to C<are_members_any()>.

=item *

Return current List::Compare::Functional version number:

```
$vers = get_version;
```

=back

=head2 Comparing Lists Held in Seen-Hashes

What is a seen-hash? A seen-hash is a typical Perl implementation of a look-up table: a hash where the value for a given element represents the number of times the element's key is observed in a list. For the purposes of List::Compare::Functional, what is crucial is whether an item is observed in a list or not; how many times the item occurs in a list is, I<with one exception,> irrelevant. (That exception is the C<get_bag()> function and its fraternal twin C<get_bag_ref()>.

In this case only, the key in each element of the seen-hash is placed in the bag the number of times indicated by the value of that element.) The value of an element in a List::Compare seen-hash must be a positive integer, but whether that integer is 1 or 1,000,001 is immaterial for all List::Compare::Functional functions I<except> forming a bag.

The two lists compared above were represented by arrays; references to those arrays were passed to the various List::Compare::Functional functions. They could, however, have been represented by seen-hashes such as the following and passed in exactly the same manner to the various functions.

```
%Llist = (
  abel  => 2,
  baker => 1,
```

```

    camera => 1,
    delta => 1,
    edward => 1,
    fargo => 1,
    golfer => 1,
);
%Rlist = (
    baker => 1,
    camera => 1,
    delta => 2,
    edward => 1,
    fargo => 1,
    golfer => 1,
    hilton => 1,
);

@intersection
= get_intersection( [ \%Llist, \%Rlist ] );
@union      = get_union(      [ \%Llist, \%Rlist ] );
@complement = get_complement( [ \%Llist, \%Rlist ] );

```

and so forth.

To compare three or more lists simultaneously, provide the appropriate `List::Compare::Functional` function with a first array reference holding a list of three or more references to seen-hashes. Thus,

```
@union = get_intersection( [ \%Alpha, \%Beta, \%Gamma ] );
```

The 'single hashref' format for `List::Compare::Functional` functions is also available when passing seen-hashes as arguments. Examples:

```
@intersection = get_intersection( {
    lists => [ \%Alpha, \%Beta, \%Gamma ],
} );
```

```
@Ronly = get_complement( {
    lists => [ \%Alpha, \%Beta, \%Gamma ],
    item => 3,
} );
```

```
$LR = is_LsubsetR( {
    lists => [ \%Alpha, \%Beta, \%Gamma ],
    pair => [ 4, 2 ],
} );
```

```
$memb_hash_ref = are_members_any( {
    lists => [ \%Alpha, \%Beta, \%Gamma ],

```

```
items => [ qw| abel baker fargo hilton zebra | ],
} );
```

=head2 Faster Results with the Unsorted Option

By default, List::Compare::Function functions return lists sorted in Perl's default ASCII-betical mode. Sorting entails a performance cost, and if you do not need a sorted list and do not wish to pay this performance cost, you may call the following List::Compare::Function functions with the 'unsorted' option:

```
@intersection = get_intersection(    '-u', [ \@Llist, \@Rlist ] );
@union        = get_union(          '-u', [ \@Llist, \@Rlist ] );
@Lonly        = get_unique(          '-u', [ \@Llist, \@Rlist ] );
@Ronly        = get_complement(      '-u', [ \@Llist, \@Rlist ] );
@LorRonly     = get_symmetric_difference('-u', [ \@Llist, \@Rlist ] );
@bag          = get_bag(             '-u', [ \@Llist, \@Rlist ] );
```

For greater readability, the option may be spelled out:

```
@intersection = get_intersection('--unsorted', [ \@Llist,
\@Rlist ] );
```

or

```
@intersection = get_intersection( {
    unsorted => 1,
    lists   => [ \@Llist, \@Rlist ],
} );
```

Should you need a reference to an unsorted list as the return value, you may call the unsorted option as follows:

```
$intersection_ref = get_intersection_ref(
    '-u', [ \@Llist, \@Rlist ] );
$intersection_ref = get_intersection_ref(
    '--unsorted', [ \@Llist, \@Rlist ] );
```

=head1 DISCUSSION

=head2 General Comments

List::Compare::Functional is a non-object-oriented implementation of very common Perl code used to determine interesting relationships between two or more lists at a time. List::Compare::Functional is based on the same author's List::Compare module found in the same CPAN distribution. List::Compare::Functional is closely modeled on the "Accelerated"

mode in List::Compare.

For a discussion of the antecedents of this module, see the discussion of the history and development of this module in the documentation to List::Compare.

=head2 List::Compare::Functional's Export Tag Groups

By default, List::Compare::Functional exports no functions. You may import individual functions into your main package but may find it more convenient to import via export tag groups. Four such groups are currently defined:

```
use List::Compare::Functional qw(:main)
use List::Compare::Functional qw(:mainrefs)
use List::Compare::Functional qw(:originals)
use List::Compare::Functional qw(:aliases)
```

=over 4

=item *

Tag group C<:main> includes what, in the author's opinion, are the six List::Compare::Functional subroutines mostly likely to be used:

```
get_intersection()
get_union()
get_unique()
get_complement()
get_symmetric_difference()
is_LsubsetR()
```

=item *

Tag group C<:mainrefs> includes five of the six subroutines found in C<:main> -- all except C<is_LsubsetR()> -- in the form in which they return references to arrays rather than arrays proper:

```
get_intersection_ref()
get_union_ref()
get_unique_ref()
get_complement_ref()
get_symmetric_difference_ref()
```

=item *

Tag group C<:originals> includes all List::Compare::Functional subroutines in their 'original' form, I<i.e.>, no aliases for those subroutines:

get_intersection
get_intersection_ref
get_union
get_union_ref
get_unique
get_unique_ref
get_unique_all
get_complement
get_complement_ref
get_complement_all
get_symmetric_difference
get_symmetric_difference_ref
get_shared
get_shared_ref
get_nonintersection
get_nonintersection_ref
is_LsubsetR
is_RsubsetL
is_LequivalentR
is_LdisjointR
is_member_which
is_member_which_ref
are_members_which
is_member_any
are_members_any
print_subset_chart
print_equivalence_chart
get_bag
get_bag_ref

=item *

Tag group C<:aliases> contains all List::Compare::Functional subroutines which are aliases for subroutines found in tag group C<:originals>. These are provided simply for less typing.

get_symdiff
get_symdiff_ref
is_LeqvlntR

=back

=head2 April 2004 Change of Interface

B<Note:> You can skip this section unless you used List::Compare::Functional prior to the release of Version 0.25 in April 2004.

Version 0.25 initiated a significant change in the interface to this module's various functions. In order to be able to accommodate comparisons among more than two lists, it was necessary to change the type of arguments passed to the various functions. Whereas previously a typical List::Compare::Functional function would be called like this:

```
@intersection = get_intersection( \@Llist, \@Rlist ); # SUPERSEDED
```

... now the references to the lists being compared must now be placed within a wrapper array (anonymous or named), a reference to which is now passed to the function, like so:

```
@intersection = get_intersection( [ \@Llist, \@Rlist ] );
```

... or, alternatively:

```
@to_be_compared = (\@Llist, \@Rlist);  
@intersection = get_intersection( \@to_be_compared );
```

In a similar manner, List::Compare::Functional functions could previously take arguments in the form of references to 'seen-hashes' instead of references to arrays:

```
@intersection = get_intersection( \%h0, \%h1 );
```

(See above for discussion of seen-hashes.) Now, those references to seen-hashes must be placed within a wrapper array (anonymous or named), a reference to which is passed to the function, like so:

```
@intersection = get_intersection( [ \%h0, \%h1 ] );
```

Also, in a similar manner, some List::Compare::Functional functions previously took arguments in addition to the lists being compared. These arguments were simply passed as scalars, like this:

```
@memb_arr = is_member_which(\@Llist, \@Rlist, 'abel');
```

Now these arguments must also be placed within a wrapper array (anonymous or named), a reference to which is now passed to the function, like so:

```
@memb_arr = is_member_which(  
[ \@Llist, \@Rlist ], [ 'abel' ] );
```

... or, alternatively:

```
@to_be_compared = (\@Llist, \@Rlist);
```

```
@opts = ( 'abel' );
@memb_arr = is_member_which( \@to_be_compared, \@opts );
```

As in previous versions, for a speed boost the user may provide the C<'-'> or C<'--unsorted'> option as the I<first> argument to some List::Compare::Functional functions. Using this option, the C<get_intersection()> function above would appear as:

```
@intersection = get_intersection( '-u', [ \@Llist, \@Rlist ] );
```

... or, alternatively:

```
@intersection = get_intersection( '--unsorted', [ \@Llist, \@Rlist ] );
```

The arguments to I<any> List::Compare::Functional function will therefore consist possibly of the unsorted option, and then of either one or two references to arrays, the first of which is a reference to an array of arrays or an array of seen-hashes.

=head1 AUTHOR

James E. Keenan (jkeenan@cpan.org). When sending correspondence, please include 'List::Compare::Functional' or 'List-Compare-Functional' in your subject line.

Creation date: May 20, 2002. Last modification date: June 07 2015.
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=cut

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* /liblist-compare-perl-0-53-orig-1-tar-gz/List-Compare-0.53/lib/List/Compare/Functional.pm

1.395 opendns-upgrade-perl 1.0

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* /forwarder-va-2-8-1-tar-gz/forwarder-va-2.8.1/vhdttool/expand_number.h

1.396 libnet-ip-perl 1.26-2

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1.397 opendns-utils-perl 1.0

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```
* /forwarder-va-2-8-1-tar-gz/forwarder-va-2.8.1/vmdktool/expand_number.c
```

```
* /forwarder-va-2-8-1-tar-gz/forwarder-va-2.8.1/vhdtool/expand_number.c
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- 2009/06/10 14:52:34 des Exp \$
- */

Found in path(s):

- * /forwarder-va-2-8-1-tar-gz/forwarder-va-2.8.1/vmdktool/expand_number.h
- * /forwarder-va-2-8-1-tar-gz/forwarder-va-2.8.1/vhdtool/expand_number.h

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- * /forwarder-va-2-8-1-tar-gz/forwarder-va-2.8.1/apps/OpenDNS-IronPort/lib/__init__.py
- * /forwarder-va-2-8-1-tar-gz/forwarder-va-2.8.1/apps/OpenDNS-IronPort/lib/util.py
- * /forwarder-va-2-8-1-tar-gz/forwarder-va-2.8.1/apps/OpenDNS-IronPort/bin/tunnel_client.py
- * /forwarder-va-2-8-1-tar-gz/forwarder-va-2.8.1/apps/OpenDNS-IronPort/lib/logger.py
- * /forwarder-va-2-8-1-tar-gz/forwarder-va-2.8.1/apps/OpenDNS-IronPort/bin/tunnel.py
- * /forwarder-va-2-8-1-tar-gz/forwarder-va-2.8.1/apps/OpenDNS-IronPort/lib/settings.py

1.398 libbytes-random-secure-perl 0.29-1

1.398.1 Available under license :

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abstract: 'Perl extension to generate cryptographically-secure random bytes.'

author:
- 'David Oswald <davido@cpan.org>'
build_requires:
Test::More: '0.98'
configure_requires:
ExtUtils::MakeMaker: '6.56'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150001'
license: perl
meta-spec:
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>
version: '1.4'
name: Bytes-Random-Secure
no_index:
directory:
- t
- inc
requires:
Carp: '0'
Crypt::Random::Seed: '0'
MIME::Base64: '0'
MIME::QuotedPrint: '3.03'
Math::Random::ISAAC: '0'
Scalar::Util: '1.21'
perl: '5.006000'
resources:
Metaspec:
version: 2
version: '0.29'

Found in path(s):

* /libbytes-random-secure-perl-0-29-orig-1-tar-gz/Bytes-Random-Secure-0.29/META.yml

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* /libbytes-random-secure-perl-0-29-orig-1-tar-gz/Bytes-Random-Secure-0.29/lib/Bytes/Random/Secure.pm

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Bytes::Random::Secure

Generate strings of cryptographic-quality pseudo-random bytes as a string of raw bytes, hex digits, MIME Base64, MIME QuotedPrintable, or just long ints.

CONFIGURATION

If you require better performance, install `Math::Random::ISAAC::XS`. It will be automatically detected, and will provide better performance as you generate random bytes.

INSTALLATION

To install this module, run the following commands:

```
perl Makefile.PL
make
make test
make install
```

Or preferably, let your favorite CPAN installer do the work for you. Users are encouraged to use a fairly modern version of their CPAN installer, particularly if building this distribution on Perl versions that preceed Perl 5.8.9.

SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module with the `perldoc` command.

```
perldoc Bytes::Random::Secure
```

You can also look for information at:

Github Repository

<https://github.com/daoswald/Bytes-Random-Secure.git>

RT, CPAN's request tracker (report bugs here)

<http://rt.cpan.org/NoAuth/Bugs.html?Dist=Bytes-Random-Secure>

AnnoCPAN, Annotated CPAN documentation

<http://annocpan.org/dist/Bytes-Random-Secure>

CPAN Ratings

<http://cpanratings.perl.org/d/Bytes-Random-Secure>

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* /libbytes-random-secure-perl-0-29-orig-1-tar-gz/Bytes-Random-Secure-0.29/README

1.399 opendns-opendnsforwarder 3.20-63

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/opendnsforwarder-tar/blobs/sha256/079487e8ba5f3aefb12dec1b509f692901a635a8a023e10481fade13ac4bb6e7:
binary file matches

/opendnsforwarder-tar/blobs/sha256/3a5b9be039a54b28e68086cb3aae91071df780805eb3c5c1a1a86ba0aafddcce:
binary file matches

/opendnsforwarder-tar/blobs/sha256/3f0c4c7d66a2aa2458fa5415c4a1ddd6667735cecd8506744c6c53065e22c59:
binary file matches

/opendnsforwarder-tar/blobs/sha256/3fc46920d66de6e5f22958665e0a482aea45096b05dc33f670b116a80f71e906:
binary file matches

/opendnsforwarder-tar/blobs/sha256/419fa1767f22a14c1bb6f7db797ba618aba762f6fdf2e80fcafee2a92a01c47b:
binary file matches

/opendnsforwarder-tar/blobs/sha256/bb56b6c12e632902e8c8bf8b104d68a54e766ef9eabc578ef5b946cb327ebecb:
binary file matches

/opendnsforwarder-tar/blobs/sha256/e2d5534bc2263bafca3dc4e51b7ef9f014106766c7e0755f14989b2893d5c1e3:
binary file matches

/opendnsforwarder-tar/blobs/sha256/fc9f8daa9470d7d7ffd2df2d28977598e02e50f8aa7c4074ad39ab1db669f2f8:
binary file matches

Found in path(s):

* /bin/grep

1.400 opendns-register-perl 1.0

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- */

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* /forwarder-va-2-8-1-tar-gz/forwarder-va-2.8.1/apps/OpenDNS-IronPort/bin/tunnel.py

* /forwarder-va-2-8-1-tar-gz/forwarder-va-2.8.1/apps/OpenDNS-IronPort/lib/settings.py

* /forwarder-va-2-8-1-tar-gz/forwarder-va-2.8.1/apps/OpenDNS-IronPort/lib/__init__.py

* /forwarder-va-2-8-1-tar-gz/forwarder-va-2.8.1/apps/OpenDNS-IronPort/lib/util.py

* /forwarder-va-2-8-1-tar-gz/forwarder-va-2.8.1/apps/OpenDNS-IronPort/lib/logger.py

1.401 libjson-any-perl 1.39-2

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