Open Source Used In CNAAP Standard (Ubuntu + docker Engine) Virtual Machine 1.0

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In your requests please include the following reference number 78EE117C99-1297592897

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 */
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 */

For lib/py/compat/win32/stdint.h

// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
//----------------------------------------------------------------------------
1.3 update-notifier 3.192.30.10

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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
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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
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
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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

The patterns have been converted to a format groff can understand.

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The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyph-x-2017-03-31.pat' and `dehyphn-x-2017-03-31.pat' (for TeX), respectively, which can be found at

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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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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.
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1.16 github.com/containerd/zfs 1.0.0

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1.17 libnet-snmp-perl 6.0.1-5

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1.18 proto-otlp 0.12.0
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1.19 python-launchpadlib 1.10.13-1

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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.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston MA 02110-1301 USA

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

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

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

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.
You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

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

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

That's all there is to it!
/* doio.c
 *
 *
 * You may distribute under the terms of either the GNU General Public
 * License or the Artistic License, as specified in the README file.
 *
 */

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

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1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

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3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

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   c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

   d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

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to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

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The End

# To give due honour to those who have made Perl 5 what it is today,
# here are easily-from-changelogs-extractable people and their
# (hopefully) current and preferred email addresses from the commits.
# These people have either submitted patches or suggestions, or their bug
# reports or comments have inspired the appropriate patches. Corrections,
# additions, deletions welcome; send them to perlbug@perl.org, preferably
# as the output of diff(1), diff -u or diff -c between the original and a
# corrected version of this file.
#
# The use of this database for anything else than Perl development
# is strictly forbidden. (Passive distribution with the Perl source
# code kit is, of course, allowed.)
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# This should contain the preferred addresses. Alternate addresses are in
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#
# After editing, please run: make test_porting
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1.26 iputils 20190709-3

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* Added generation of field number constants.

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* Fixed initialization ordering problem in logging code.

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* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>
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* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.

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William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)

/* Written in 2016 by David Blackman and Sebastiano Vigna (vigna@acm.org)

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MySQL Router 8.0

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MySQL 8.0

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Google SMP patch

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
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lib/gssapi/mechglue/g_imp_sec_context.c
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lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
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lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

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

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libunwind

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# unidata-5.2.0.txt
# Date: 2009-09-22, 16:23:42 PDT [KW]
#
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#
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# 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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1.30 python-six 1.14.0-2 all

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1.32 libpcre 8.39-9
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-----------------------------

Written by: Philip Hazel
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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

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1.35 mitchellh-mapstructure 1.4.2

1.35.1 Available under license:

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1.36 libubsan1 10.3.0-1ubuntu1

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This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)  
svn://gcc.gnu.org/svn/gcc/ (for prereleases)  
ftp://sourceware.org/pub/newlib/ (for newlib)
The current gcc-10 source package is taken from the SVN gcc-10-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-10</td>
<td>libgnat-10</td>
<td>gnat-10-doc</td>
</tr>
<tr>
<td>BRIG</td>
<td>gccbrig-10</td>
<td>libhsail-rt0</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>gcc-10</td>
<td>gcc-10-doc</td>
<td></td>
</tr>
<tr>
<td>C++</td>
<td>g++-10</td>
<td>libstdc++6</td>
<td>libstdc++6-10-doc</td>
</tr>
<tr>
<td>D</td>
<td>gdc-10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-10</td>
<td>libgfortran5</td>
<td>gfortran-10-doc</td>
</tr>
<tr>
<td>Go</td>
<td>gccgo-10</td>
<td>libgo0</td>
<td></td>
</tr>
<tr>
<td>Objective C</td>
<td>gobjc-10</td>
<td>libobjc4</td>
<td></td>
</tr>
<tr>
<td>Objective C++</td>
<td>gobjc++-10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modula-2</td>
<td>gm2-10</td>
<td>libgm2</td>
<td></td>
</tr>
</tbody>
</table>

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td></td>
<td>libstdc++6-10-dbg</td>
<td>libstdc++6-10-pic</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>libphobos-10-dev</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional packages include:

All languages:
- libgcc1, libgcc2, libgcc4  GCC intrinsics (platform-dependent)
- gcc-10-base  Base files common to all compilers
- gcc-10-soft-float  Software floating point (ARM only)
- gcc-10-source  The sources with patches

Ada:
- libgnat-util10-dev, libgnat-util10  GNAT version library

C:
- cpp-10, cpp-10-doc  GNU C Preprocessor
- libssp0-dev, libssp0  GCC stack smashing protection library
- libquadmath0  Math routines for the __float128 type
- fixincludes  Fix non-ANSI header files
C, C++ and Fortran 95:
libgomp1-dev, libgomp1GCC OpenMP (GOMP) support library
libitm1-dev, libitm1GNU Transactional Memory Library

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gcc/emu1t.c, gcc/gbl-ctors.h, gcc/gcov-io.h, gcc/libgccov.c,
gcc/system.h, gcc/typeclass.h).
- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-10 Ada support library and libgnat-util10 library.
- Various config files in gcc/config/ used in runtime libraries.
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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

http://llvm.org

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Written by Tobias Burnus <burnus@net-b.de>

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D:
gdc-10 GNU D Compiler
libphobos-10-dev D standard runtime library

The D source package is made up of the following components.

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The DMD Compiler implementation of the D programming language:
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The Zlib data compression library:
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The Phobos standard runtime library:
- d/phobos/*

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rijndael-alg-fst.c

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Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. 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.


Windows support

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lib/hcrypto/test_dh.c

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# Contributions to the urllib3 project

## Creator & Maintainer

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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@ravelosystems.com>
  * Allowed to skip SSL hostname verification

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

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

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition
* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* John Vandenberg <jayvd@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_forceclist 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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1.53 fribidi 1.0.8-2ubuntu0.1

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1.54 libxext 1.3.4-0ubuntu1

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1.55 python3-yaml 5.3.1-1ubuntu0.1

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1.56 cpp 9.3.0-1ubuntu2

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1.57 otel-exporters-otlp-otlptrace 1.4.1

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lib/erl/src/Makefile.am

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For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

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For lib/cpp/src/thrift/windows/SocketPair.cpp

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For lib/py/compat/win32/stdint.h

// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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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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1.66 agentx-levenshtein 1.2.3

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1.70 pflag 1.0.5

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Ty Coon, President of Vice
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Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:


I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7c1fbb0a64a7a67b39626650e863f16a
Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009:

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

1.72 mergo 0.3.12

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import: ../../../../fossene/db/schema/thing.yml
fields:
site: string
author: root

1.73 libmcrypt4 2.5.8-3.4
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1.78 golang-github-klauspost-compress 1.9.5-2 all

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1.79 gdbm 1.18.1-5
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1.83 netbase 6.1
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1.84 libatomic 10.3.0-1ubuntu

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- svn://gcc.gnu.org/svn/gcc/ (for prereleases)
- ftp://sourceware.org/pub/newlib/ (for newlib)
- git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-10 source package is taken from the SVN gcc-10-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-10</td>
<td>libgnat-10</td>
<td>gnat-10-doc</td>
</tr>
<tr>
<td>BRIG</td>
<td>gccbrig-10</td>
<td>libhsail-rt0</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>gcc-10</td>
<td>gcc-10-doc</td>
<td></td>
</tr>
<tr>
<td>C++</td>
<td>g++-10</td>
<td>libstdc++6</td>
<td>libstdc++6-10-doc</td>
</tr>
<tr>
<td>D</td>
<td>gdc-10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-10</td>
<td>libgfortran5</td>
<td>gfortran-10-doc</td>
</tr>
<tr>
<td>Go</td>
<td>gccgo-10</td>
<td>libgo0</td>
<td></td>
</tr>
<tr>
<td>Objective C</td>
<td>gobjc-10</td>
<td>libobjc4</td>
<td></td>
</tr>
<tr>
<td>Objective C++</td>
<td>gobjc++-10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modula-2</td>
<td>gm2-10</td>
<td>libgm2</td>
<td></td>
</tr>
</tbody>
</table>

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td>libstdc++6-10-dbg</td>
<td>libstdc++6-10-pic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>libphobos-10-dev</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional packages include:
All languages:
libgcc1, libgcc2, libgcc4  GCC intrinsics (platform-dependent)
gcc-10-base  Base files common to all compilers
gcc-10-soft-float  Software floating point (ARM only)
gcc-10-source  The sources with patches

Ada:
libgnat-util10-dev, libgnat-util10  GNAT version library

C:
cpp-10, cpp-10-doc  GNU C Preprocessor
libssp0-dev, libssp0  GCC stack smashing protection library
libquadmath0  Math routines for the __float128 type
fixincludes  Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code,
Debian provides additional packages containing 32-bit versions of some
libraries. These packages have names beginning with 'lib32' instead of
'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which
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- libitm
- libssp
- libstdc++-v3
- libobjc
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D:
gdc-10 GNU D Compiler
libphobos-10-dev D standard runtime library

The D source package is made up of the following components.

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The DMD Compiler implementation of the D programming language:
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  <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"/>
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1.89 github.com/microsoft/hcsshim 0.8.24

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

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========

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SIGNATURE OF TY COON, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-9 source package is taken from the SVN gcc-9-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-9</td>
<td>libgnat-9</td>
<td>gnat-9-doc</td>
</tr>
<tr>
<td>BRIG</td>
<td>gccbrig-9</td>
<td>libhsail-rt0</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>gcc-9</td>
<td>gcc-9-doc</td>
<td></td>
</tr>
<tr>
<td>C++</td>
<td>g++-9</td>
<td>libstdc++6</td>
<td>libstdc++6-9-doc</td>
</tr>
<tr>
<td>D</td>
<td>gdc-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-9</td>
<td>libgfortran3</td>
<td>gfortran-9-doc</td>
</tr>
<tr>
<td>Go</td>
<td>gccgo-9</td>
<td>libgo0</td>
<td></td>
</tr>
<tr>
<td>Objective C</td>
<td>gobjc-9</td>
<td>libobjc2</td>
<td></td>
</tr>
<tr>
<td>Objective C++</td>
<td>gobjc++-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modula-2</td>
<td>gm2-9</td>
<td>libgm2</td>
<td></td>
</tr>
</tbody>
</table>

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td>libstdc++6-9-dbq</td>
<td>libstdc++6-9-pic</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

Open Source Used In CNAAP Standard (Ubuntu + docker Engine) Virtual Machine 1.0 1156
D   libphobos-9-dev

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4   GCC intrinsics (platform-dependent)
gcc-9-base   Base files common to all compilers
gcc-9-soft-float   Software floating point (ARM only)
gcc-9-source   The sources with patches

Ada:
libgnatvsn-dev, libgnatvsn9   GNAT version library

C:
cpp-9, cpp-9-doc   GNU C Preprocessor
libssp0-dev, libssp0   GCC stack smashing protection library
libquadmath0   Math routines for the __float128 type
fixincludes   Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1GCC OpenMP (GOMP) support library
libitm1-dev, libitm1GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++-6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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gcc/emults.c, gcc/gbl-ctors.h, gcc/gcov-io.h, gcc/libgcov.c,
gcc/tsystem.h, gcc/typeclass.h).
- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-9 Ada support library and libgnatvsn library.
- Various config files in gcc/config/ used in runtime libraries.
- libvtv

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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Written by Francois-Xavier Coudert  <fxcoudert@gcc.gnu.org>
Written by Tobias Burnus  <burnus@net-b.de>

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libphobos-9-dev               D standard runtime library

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1.103 github.com/godbus/dbus/v5 5.0.4

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1.104 libgusb2 0.3.4-0.1

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10th April 2012

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### 1.111 console-setup 1.194ubuntu3

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```bash
== u_vga16.bdf

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```bash
== 7x14B.bdf 7x14Bc.bdf 7x14.bdf 7x14B-IL2.bdf 7x14c.bdf 7x14-IL2.bdf 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 9x18B.bdf 9x18.bdf etl14-unicode.bdf etl16-unicode.bdf etl24-unicode.bdf
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== unifont.bdf

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ter-u14v.bdf, ter-u16b.bdf, ter-u16n.bdf, ter-u16v.bdf,
ter-u20b.bdf, ter-u20n.bdf, ter-u24b.bdf, ter-u24n.bdf,
ter-u28b.bdf, ter-u28n.bdf, ter-u32b.bdf, ter-u32n.bdf

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100dpi-lutBS08-IL2.bdf 100dpi-lutBS12-IL2.bdf
100dpi-lutBS14-IL2.bdf 100dpi-lutBS14.bdf 100dpi-lutBS19-IL2.bdf
100dpi-lutRS10.bdf 100dpi-lutRS10-IL2.bdf 100dpi-lutRS08.bdf
100dpi-lutRS08-IL2.bdf 100dpi-lutRS14-IL2.bdf 100dpi-lutRS14.bdf
100dpi-lutRS19-IL2.bdf 75dpi-lutBS12.bdf 75dpi-lutBS12c.bdf
75dpi-lutBS12-IL2.bdf 75dpi-lutBS14.bdf 75dpi-lutBS14c.bdf
75dpi-lutBS14-IL2.bdf 75dpi-lutRS12.bdf 75dpi-lutRS12c.bdf
75dpi-lutRS12-IL2.bdf 75dpi-lutRS14.bdf 75dpi-lutRS14c.bdf
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
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Mersenne Twister
----------------

The `random' module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html'. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.
Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and
`getnameinfo', which are coded in separate source files from the WIDE

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard

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1.132 go-logr-stdr 1.2.2

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The sources may be found at most Linux ftp sites, including

This package was then maintained by Sven Rudolph.

This package was maintained by Herbert Xu <herbert@gondor.apana.org.au>

This package was maintained by the
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1.134 icu 66.1 2ubuntu2.1

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -DPIE

## 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

%.o: $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<

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

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

%.so: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \n | sed "s/\($\*\)/\1.o $@ : /g" > $@; \n [ -s $@ ] || rm -f $@' 

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n | sed "s/\($\*\)/\1.o $@ : /g" > $@; \n [ -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
This package was debianized by Jay Berkenbilt <qjb@debian.org> on August 5, 2005.
The packaging was taken over by Laszlo Boszormenyi (GCS) <gcs@debian.org> on Tue, 17 Mar 2015.

The original source was downloaded from http://site.icu-project.org/download

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The Debian tree is maintained with "git" at:
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```
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```

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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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1.160 github.com/moby/sys/signal 0.6.0

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1.162 python3-secretstorage 2.3.1-2ubuntu1

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

That's all there is to it!

1.164 rootlesskit 0.14.4
1.164.1 Available under license :

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1.165 vim-runtime 8.1.2269-1ubuntu5.7

1.165.1 Available under license:

For Vim version 8.2. Last change: 2019 Dec 07

VIM REFERENCE MANUAL by Bram Moolenaar

SUMMARY
Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see [kcc] below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see [manual-copyright].

=== begin of license ===

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II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:
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      b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it
unmodified, as mentioned at I). If you make additional changes the
text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of
the modified Vim you distribute. This may be done in the form of a
context diff. You can choose what license to use for new code you
add. The changes and their license must not restrict others from
making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned
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- The license that applies to the changes permits you to distribute
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version of Vim without fee or restriction.
- You keep the changes for at least three years after last
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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.
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

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).

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:

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:


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.

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

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

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

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

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

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

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

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

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

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

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

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1.166 motd-news-config 11ubuntu5.5

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source
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1.170 docker-io 20.10.7-0ubuntu5~20.04.2

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*/

Found in path(s):
* /opt/cola/permits/1252267830_1641885835.30/netkit-ftp-0.17-orig-tar-gz/netkit-ftp-0.17/ftp/ruserpass.c
* /opt/cola/permits/1252267830_1641885835.30/netkit-ftp-0.17-orig-tar-gz/netkit-ftp-0.17/ftp/domacro.c
No license file was found, but licenses were detected in source scan.
1.176 libalgorithm-diff-perl 1.19.03-2

1.176.1 Available under license:

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#!/usr/bin/perl -w
#
# `Diff` program in Perl
# Copyright 1998 M-J. Dominus. (mjd-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

gopts('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 $diffs = diff(@file1, @file2);
exit 0 unless @$diffs;

my $st = stat($file1);
print "$char1 $file1	", scalar localtime($st->mtime), "\n";
$st = stat($file2);
print "$char2 $file2	", scalar localtime($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(@file1, @file2);
  }
}

# print the last hunk
$oldhunk->output_diff(@file1, @file2);
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 $File_LENGTH_Difference
    #
    # Fields in a Hunk:
    # blocks    - a list of Block objects
    # start     - index in file 1 where first block of the hunk starts
    # end       - index in file 1 where last block of the hunk ends
    #
    # Variables:
    # before_dif - how much longer file 2 is than file 1 due to all hunks
    #              until but NOT including this one
    # after_dif  - difference due to all hunks including this one
    my ($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, $end1, $end2);
    $a1 = @remove_array ? $remove_array[0]->{'item_no'} : -1;
    $a2 = @remove_array ? $remove_array[-1]->{'item_no'} : -1;
    $b1 = @insert_array ? $insert_array[0]->{'item_no'} : -1;
    $b2 = @insert_array ? $insert_array[-1]->{'item_no'} : -1;

    $start1 = $a1 == -1 ? $b1 - $before_diff : $a1;
    $end1   = $a2 == -1 ? $b2 - $after_diff  : $a2;
}
$start2 = $b1 == -1 ? $a1 + $before_diff : $b1;
$end2 = $b2 == -1 ? $a2 + $after_diff : $b2;

# At first, a hunk will have just one Block in it
my $hunk = {
    "start1" => $start1,
    "start2" => $start2,
    "end1" => $end1,
    "end2" => $end2,
    "blocks" => [$block],
};
bless $hunk, $class;

$hunk->flag_context($context_items);

return $hunk;
}

# Change the "start" and "end" fields to note that context should be added
# to this hunk
sub flag_context {
    my ($hunk, $context_items) = @_; return unless $context_items; # no context

    # add context before
    my $start1 = $hunk->"start1";
    my $num_added = $context_items > $start1 ? $start1 : $context_items;
    $hunk->"start1" -= $num_added;
    $hunk->"start2" -= $num_added;

    # context after
    my $end1 = $hunk->"end1";
    $num_added = ($end1+$context_items > $#f1) ?
        $#f1 - $end1 :
        $context_items;
    $hunk->"end1" += $num_added;
    $hunk->"end2" += $num_added;
}

# Is there an overlap between hunk arg0 and old hunk arg1?
# Note: if end of old hunk is one less than beginning of second, they overlap
sub does_overlap {
    my ($hunk, $oldhunk) = @_; return "" unless $oldhunk; # first time through, $oldhunk is empty

    # Do I actually need to test both?
    return ($hunk->"start1" - $oldhunk->"end1") <= 1 ||
        ($hunk->"start2" - $oldhunk->"end2") <= 1;
# Prepend hunk arg1 to hunk arg0
# Note that arg1 isn't updated! Only arg0 is.
sub prepend_hunk {
    my ($hunk, $oldhunk) = @_;;

    $hunk->{'start1'} = $oldhunk->{'start1'};
    $hunk->{'start2'} = $oldhunk->{'start2'};

    unshift (@{$hunk->"blocks"}, @{$oldhunk->"blocks"});
}

# DIFF OUTPUT ROUTINES. THESE ROUTINES CONTAIN DIFF FORMATTING INFO...
sub output_diff {
    if    (defined $main::opt_u) {&output_unified_diff(@_)}
    elsif (defined $main::opt_c) {&output_context_diff(@_)}
    else {die "unknown diff"}
}

sub output_unified_diff {
    my ($hunk, $fileref1, $fileref2) = @_;;
    my @blocklist;

    # Calculate item number range.
    my $range1 = $hunk->unified_range(1);
    my $range2 = $hunk->unified_range(2);
    print "@@ -$range1 +$range2 @@

    # Outlist starts containing the hunk of file 1.
    # Removing an item just means putting a '-' in front of it.
    # Inserting an item requires getting it from file2 and splicing it in.
    # We splice in $num_added items. Remove blocks use $num_added because
    # splicing changed the length of outlist.
    # We remove $num_removed items. Insert blocks use $num_removed because
    # their item numbers---corresponding to positions in file *2*--- don't take
    # removed items into account.
    my $low = $hunk->{'start1'};
    my $hi = $hunk->{'end1'};
    my ($num_added, $num_removed) = (0,0);
    my @outlist = @$fileref1[$low..$hi];
    map {s/^/ /} @outlist; # assume it's just context
    foreach my $block (@{$hunk->"blocks"}) {
        foreach my $item ($block->remove) {
            my $op = $item->{'sign'}; # -
            my $offset = $item->{'item_no'} - $low + $num_added;
            "@@ -$offset@@ 
        }
    }

    # 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 + $num_added;
            "@@ -$offset@@ 
        }
    }
}
$outlist[$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"}}) {

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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/$/
/} @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,$length" : "$first"
    return $range;
}

# 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):
* /opt/cola/permits/1136574725_1613801364.93/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff1.1903/cdiff.pl

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

Found in path(s):
* /opt/cola/permits/1136574725_1613801364.93/0/libalgorithm-diff-perl-l-1-19-03-orig-l-tar-gz/Algorithm-Diff-1.1903/diffnew.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;
}

---
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'

---

=head1 NAME

Algorithm::Diff - Compute `intelligent' differences between two files / lists

=head1 SYNOPTIS
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
",
      $diff->Get(qw( Min1 Max1 Max2 ));
  } elsif( ! $diff->Items(1) ) {
    printf "%da%d,%d
",
      $diff->Get(qw( Max1 Min2 Max2 ));
  } else {
    $sep = "---\n";
    printf "%d,%dc%d,%d
",
      $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 );
$ccount = 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<b> that appear at the beginning of each sequence, like this:

a x b y c         z p d q
a   b   c a b y c z

This finds the common subsequence C<a b c z>. But actually, the LCS is C<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,

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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();
$soldBase = $diff->Base($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:

/^(-?[0-9]+)?(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, \texttt{prepare} returns a reference to a hash which can be used when comparing this sequence to other sequences with \texttt{LCS} or \texttt{LCS_length}.

\begin{verbatim}
$prep = prepare( \@seq1 );
for $i ( 0 .. 10_000 )
{
    @lcs = LCS( $prep, $seq[$i] );
    # do something useful with @lcs
}
\end{verbatim}

\texttt{prepare} may be passed an optional third parameter; this is a \texttt{CODE} reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

\begin{verbatim}
$prep = prepare( \@seq1, \&keyGen );
for $i ( 0 .. 10_000 )
{
    @lcs = LCS( $seq[$i], $prep, \&keyGen );
    # do something useful with @lcs
}
\end{verbatim}

Using \texttt{prepare} provides a performance gain of about 50\% when calling LCS many times compared with not preparing.

=head2 \texttt{diff}

\begin{verbatim}
@diffs     = diff( \@seq1, \@seq2 );
$diffs_ref = diff(\@seq1, \@seq2 );
\end{verbatim}

\texttt{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 \texttt{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 \texttt{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 \texttt{diff} for the following two sequences:

\begin{verbatim}
a b c e h j l m n p
b c d e f j k l m r s t
\end{verbatim}

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

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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
```
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 ];
```

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 traverse_sequences

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. 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 A[$i] and B[$j], which are equal and which are part of the LCS, there will be some moment during the execution of traverse_sequences when arrow A is pointing to A[$i] and arrow B is pointing to B[$j]. When this happens, traverse_sequences will call the 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. traverse_sequences will advance that arrow and will call the DISCARD_A or the DISCARD_B callback, depending on which arrow it advanced. If both arrows point to elements that are not part of the LCS, then traverse_sequences will advance one of them and call the appropriate callback, but it is not specified which it will call.

The arguments to 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
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, traverse_sequences will call the A_FINISHED callback when it advances arrow B, if there is such a function; if not it will call DISCARD_B instead. Similarly if arrow B finishes first. 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.

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,
);
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->clone(), $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).

=head1 LICENSE

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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<diff> and C<traverse_balanced> were written by Mike Schilli <m@perlmeister.com>.

The algorithm is that described in
I<A Fast Algorithm for Computing Longest Common Subsequences>,
CACM, vol.20, no.5, pp.350-353, May 1977, with a few
minor improvements to improve the speed.

Much work was done by Ned Konz (perl@bike-nomad.com).

The OO interface and some other changes are by Tye McQueen.

=cut

Found in path(s):
* /opt/cola/permits/1136574725_1613801364.93/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/lib/Algorithm/Diff.pm

1.177 open-vm-tools 11.3.0-2ubuntu0~ubuntu20.04.2
1.177.1 Available under license:
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Open-vm-tools v10.3.0

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>>> freebsd-base64-4.8

base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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1.178 libauparse 2.8.5-2ubuntu6

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.182 tcp-dump 4.9.3 4ubuntu0.1

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1.183 python3-x2gobroker 0.0.4.1-1 all
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Upstream-Name: X2Go Session Broker
Upstream-Contact:
Mike Gabriel <mike.gabriel@das-netzwerkteam.de>
Source: https://code.x2go.org/releases/source/x2gobroker

Files:
ChangeLog
NEWS
README
TODO
defaults/python-x2gobroker.default
defaults/x2gobroker-authservice.default
defaults/x2gobroker-daemon.default
defaults/x2gobroker-loadchecker.default
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docs/README.x2goclient+broker.getting-started.md
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1.184 python-keyring 18.0.1-2ubuntu1

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1.185 python3-nacl 1.3.0-5

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1.186 policykit 0.105-26ubuntu1.3

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Protocol Buffers for Go with Gadgets

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

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

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1.193 libnl3 3.4.0 1

1.193.1 Available under license:

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

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

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medium customarily used for software interchange.

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rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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The packaging is based on Michael Biebl's <biebl@teco.edu> original packaging of libnl1.

It was downloaded from https://github.com/thom311/libnl/releases

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  ter-u28b.bdf, ter-u28n.bdf, ter-u32b.bdf, ter-u32n.bdf

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1.202 update-manager 20.04.10.10

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src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/intutil.c
src/gzip/intutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
# EOF

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1.211 pythoncommandnotfound 20.04.6
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1.215 mdadm 4.1 5ubuntu1.2

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**1.216 bzip2 1.0.8 2**

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Open-vm-tools v10.3.0

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>>> freebsd-base64-4.8
>>> unicode-5.0

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>>> freebsd-base64-4.8

base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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### 1.226 pythonupdatemanager 20.04.10.10

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This package was debianized by Michiel Sikkes <michiel@eyesopened.nl> on Mon, 25 Oct 2004 21:49:07 +0200.

It was downloaded from http://code.launchpad.net/~ubuntu-core-dev/update-manager/main

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1.232 python3-attr 19.3.0-2

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1.233 numactl 2.0.12 1

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1.234 python-setuptools 45.2.0-1

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1.235 python-gi 3.36.0-1

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Protocol Buffers for Go with Gadgets

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

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Data model artifacts for Prometheus.

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localtime.go, localtime_test.go:

Originals:
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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.

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Gocheck - A rich testing framework for Go

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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>
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  <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:text>Copyright (C) </xsl:text>
          <xsl:text>Copyright (C) </xsl:text>
          <xsl:call-template name="copyright.years">
            <xsl:with-param name="years" select="year"/>
          </xsl:call-template>
        </xsl:for-each>
      </xsl:with-param name="text"/>
    </xsl:call-template>
  </xsl:variable>
</xsl:stylesheet>
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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
Chelohya, Scott
ek, Vitsslav
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
Fryinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dwarkin
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
Sanchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blittermann, Mario
Bogusz, Jakub
Buoren, 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, Frédéric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keecci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krnar, Tomislav
Marchal, Frédéric
Margevičius, 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

1.247 docker-ce-rootless-extras 20.10.14~3-0~ubuntu-focal
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1.249 sysv-init 2.96-2.1ubuntu1

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1.250 tpm-udev 0.4

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1.251 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):
* /opt/cola/permits/1125674548_1611395382.31/0/libtext-iconv-perl-1-7-orig-2-tar-bz2/Text-Iconv-1.7/README

1.252 apt-utils 2.0.6

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1.261 python3-automat 0.8.0-1ubuntu1 all
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1.262 adduser 3.118ubuntu2

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This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

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

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

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.
The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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 installatio

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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

That's all there is to it!

1.267 libmcrypt-dev 2.5.8-3.4
1.267.1 Available under license :

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

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

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

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

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warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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1.269 logrus 1.8.1

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

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively 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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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

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

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

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don’t assume that anything in it is the same as in the ordinary license.

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

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

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

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

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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1.271 libxmb 0.1.15-2ubuntu1~20.04.1

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

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modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
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introduced by others.

Finally, software patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
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When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
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entire combination fits its criteria of freedom. The Lesser General
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We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

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

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

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

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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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.

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

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
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EFI GUID Partition Table handling
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1.281 python3-simplejson 3.16.0-2ubuntu2

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1.282 r-cran-plogr 0.2.0-2 all

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1.283 python3-pyasn1-modules 0.2.1-
0.2build1

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1.284 iputils-tracepath 20190709-3

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Files-Excluded:
result
 test
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.290 python-httplib2 0.14.0-1ubuntu1

1.290.1 Available under license:

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1.291 python-click 7.0-3

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Found in path(s):
* /opt/cola/permits/1141746476_1615192751.46/0/python-click-7-0-orig-1-tar-gz/Click-7.0/click/_termui_impl.py
* /opt/cola/permits/1141746476_1615192751.46/0/python-click-7-0-orig-1-tar-gz/Click-7.0/click/__init__.py

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Metadata-Version: 1.2
Name: Click
Version: 7.0
Summary: Composable command line interface toolkit
Home-page: https://palletsprojects.com/p/click/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets Team
Maintainer-email: contact@palletsprojects.com
License: BSD
Project-URL: Documentation, https://click.palletsprojects.com/
Project-URL: Code, https://github.com/pallets/click
Description: `click`

```
============

Click is a Python package for creating beautiful command line interfaces in a composable way with as little code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with sensible defaults out of the box.
```
It aims to make the process of writing command line tools quick and fun while also preventing any frustration caused by the inability to implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing
-----------

Install and update using `pip`:

.. code-block:: text

    $ pip install click

Click supports Python 3.4 and newer, Python 2.7, and PyPy.


A Simple Example
-----------------

What does it look like? Here is an example of a simple Click program:

.. code-block:: python

    import click

    @click.command()
    @click.option("--count", default=1, help="Number of greetings.")
    @click.option("--name", prompt="Your name",
                  help="The person to greet.")
    def hello(count, name):
        
        """Simple program that greets NAME for a total of COUNT times.""

        for _ in range(count):
            click.echo("Hello, %s!" % name)

    if __name__ == '__main__':
        hello()

And what it looks like when run:
.. code-block:: text

$ python hello.py --count=3
Your name: Click
Hello, Click!
Hello, Click!
Hello, Click!

Donate
-----

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Links
-----

* Website: https://palletsprojects.com/p/click/
* Documentation: https://click.palletsprojects.com/
* License: `BSD <https://github.com/pallets/click/blob/master/LICENSE.rst>`_
* Releases: https://pypi.org/project/click/
* Code: https://github.com/pallets/click
* Issue tracker: https://github.com/pallets/click/issues
* Test status:

  * Linux, Mac: https://travis-ci.org/pallets/click
  * Windows: https://ci.appveyor.com/project/pallets/click

  * Test coverage: https://codecov.io/gh/pallets/click

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
import io
import re
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("click/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r"__version__ = '(.*)'\", f.read()).group(1)

setup(
    name="Click",
    version=version,
    url="https://palletsprojects.com/p/click/",
    project_urls={
        "Documentation": "https://click.palletsprojects.com/",
        "Code": "https://github.com/pallets/click",
        "Issue tracker": "https://github.com/pallets/click/issues",
    },
    license="BSD",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets Team",
    maintainer_email="contact@palletsprojects.com",
    description="Composable command line interface toolkit",
    long_description=readme,
    packages=["click"],
    include_package_data=True,
    python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*",
    classifiers=[
        "Development Status :: 5 - Production/ Stable",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 2.7",
        "Programming Language :: Python :: 3",
        "Programming Language :: Python :: 3.6",
        "Programming Language :: Python :: 3.7",
    ],
)

Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*

Found in path(s):
* /opt/cola/permits/1141746476_1615192751.46/0/python-click-7-0-orig-1-tar-gz/Click-7.0/Click.egg-info/PKG-INFO
* /opt/cola/permits/1141746476_1615192751.46/0/python-click-7-0-orig-1-tar-gz/Click-7.0/PKG-INFO
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"Programming Language :: Python :: 3.4",
"Programming Language :: Python :: 3.5",
"Programming Language :: Python :: 3.6",
"Programming Language :: Python :: 3.7",
],
)
)

Found in path(s):
* /opt/cola/permits/1141746476_1615192751.46/0/python-click-7-0-orig-1-tar-gz/Click-7.0/setup.py

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

.. include:: ../LICENSE.rst

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----

Click uses parts of optparse written by Gregory P. Ward and maintained
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# binary only, patch it back to the system, and then use a wrapper

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* /opt/cola/permits/1141746476_1615192751.46/0/python-click-7.0-orig-1-tar-gz/Click-7.0/click/_compat.py
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.. _contrib:

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

click-contrib

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

As the userbase of Click grows, more and more major feature requests pop up in
Click's bugtracker. As reasonable as it may be for those features to be bundled
with Click instead of being a standalone project, many of those requested
features are either highly experimental or have unproven practical use, while
potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of
possibly experimental third-party packages whose featureset does not belong
into Click, but also a playground for major features that may be added to Click
in the future. It is also meant to coordinate and concentrate effort on writing
third-party extensions for Click, and to ease the effort of searching for such
extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

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* /opt/cola/permits/1141746476_1615192751.46/0/python-click-7-0-orig-1-tar-gz/Click-7.0/docs/contrib.rst

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\$ click\_
==============

Click is a Python package for creating beautiful command line interfaces in a composable way with as little code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun while also preventing any frustration caused by the inability to implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing
----------

Install and update using `pip`:

.. code-block:: text

\$ pip install click

Click supports Python 3.4 and newer, Python 2.7, and PyPy.


A Simple Example
==============
What does it look like? Here is an example of a simple Click program:

```python
import click

@click.command()
@click.option("--count", default=1, help="Number of greetings.")
@click.option("--name", prompt="Your name",
    help="The person to greet.")
def hello(count, name):
    """Simple program that greets NAME for a total of COUNT times.""
    for _ in range(count):
        click.echo("Hello, %s!" % name)

if __name__ == '__main__':
    hello()
```

And what it looks like when run:

```text
$ python hello.py --count=3
Your name: Click
Hello, Click!
Hello, Click!
Hello, Click!
```

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* Releases: https://pypi.org/project/click/
* Code: https://github.com/pallets/click
* Issue tracker: https://github.com/pallets/click/issues
* Test status:

  * Linux, Mac: https://travis-ci.org/pallets/click
  * Windows: https://ci.appveyor.com/project/pallets/click

* Test coverage: https://codecov.io/gh/pallets/click

Found in path(s):
* /opt/cola/permits/1141746476_1615192751.46/0/python-click-7-0-orig-1-tar-gz/Click-7.0/README.rst
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Including attribution to #612

Found in path(s):
* /opt/cola/permits/1141746476_1615192751.46/0/python-click-7-0-orig-1-tar-gz/Click-7.0/tests/test_formatting.py

1.292 `libsnp-base 5.8+dfsg-2ubuntu2.3`

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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.

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* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/INSTALL
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$Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $

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* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/pathnames.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/externs.h
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*
* @(#)bitstring.h 5.2 (Berkeley) 4/4/90
*/

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 */

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

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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)
kil 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):
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/README

1.295 go-jose.v1 2.5.1
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1.296 sound-theme-freedesktop 0.8 2ubuntu1

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Upstream-Name: sound-theme-freedesktop
Upstream-Contact: Lennart Poettering <lennart@poettering.net>, William Jon McCann <jmccann@redhat.com>
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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

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

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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 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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

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

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.
You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

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

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

That's all there is to it!

1.304 python3-blinker 1.4+dfsg1-0.3ubuntu1

all

1.304.1 Available under license:

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: blinker
Source: https://pypi.python.org/pypi/blinker

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1.305 python-stdlib-extensions 3.8.10-0ubuntu1~20.04

1.305.1 Available under license :

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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/driver.py
* /opt/cola/permits/1168963812_1622802919.99/0/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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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/grammar.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/pgen.py
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stlib-extensions-3-8-2-orig-tar-xz/python3-stlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_print.py
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stlib-extensions-3-8-2-orig-tar-xz/python3-stlib-extensions-3.8.2/3.8/Lib/lib2to3/refactor.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stlib-extensions-3-8-2-orig-tar-xz/python3-stlib-extensions-3.8.2/3.8/Lib/lib2to3/patcomp.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stlib-extensions-3-8-2-orig-tar-xz/python3-stlib-extensions-3.8.2/3.8/Lib/lib2to3/fixer_base.py

---

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"cannot supply both '--source-only' and '--binary-only'")
'License: ' + self.distribution.get_license(),

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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist_rpm.py

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# 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):
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/PatternGrammar.txt
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/PatternGrammar.txt
* /opt/cola/permits/1168963812_1622802919.99/0/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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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Modules/_tkinter.c
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Found in path(s):
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist_wininst.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist_wininst.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/cygwinccompiler.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist_wininst.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist_wininst.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/cygwinccompiler.py

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Found in path(s):
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_standarderror.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_map.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_xrange.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_xrange.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_buffer.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_buffer.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_dict.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_dict.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_standarderror.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_standarderror.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_xrange.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_map.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_types.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_types.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_dict.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_filter.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_filter.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_buffer.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_types.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_types.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_map.py

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Executable.

Found in path(s):
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/spawn.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/spawn.py
* /opt/cola/permits/1168963812_1622802919.99/0/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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file.write('License: %s
' % self.get_license())

Found in path(s):
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/dist.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/dist.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3.8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/dist.py

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1.306 cavium-liquidio 3.1.2
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0 leshort 0x0436 psf screen font data
>2 byte 0 256 characters, no index
>2 byte 1 512 characters, no index
>2 byte 2256 characters, Unicode index
>byte 3512 characters, Unicode index
>2 byte 4256 characters, Unicode level 2 index
>2 byte 5512 characters, Unicode level 2 index
>byte 8x%d

PC Screen (console) Fonts - psf2 header

0 lelong 0x864ab572 psf2 screen font data
>12 lelong 1 with Unicode index
>16 lelong %d glyphs
>28 lelong %d
>24 lelong %d

rJ

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1.314 otel-exporters-otlp-otlptrace-otlptracegrpc 1.4.1

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--------------------------------------------------
For lib/py/compat/win32/stdint.h
ISO C9x compliant stdint.h for Microsoft Visual Studio
Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124

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```

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

```verbatim
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```

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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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1.324 ssl-cert 1.0.39

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

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localtime.go, localtime_test.go:

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* ‘Local’ prefix added to all structs.

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1.330 lm-sensors 3.6.0-2ubuntu1

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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with the Library, with the complete machine-readable "work that
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
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
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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
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For an executable, the required form of the "work that uses the
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a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

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

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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
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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

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1.334 binutils 2.34-6ubuntu1.3

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and:

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Code marked with ChangeLog entries of g10 Code employees.

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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex. added SHA-224, changed cipher/sha256.c, added HMAC tests.)

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Most of the stuff in mpi has been taken from an old GMP library version by Torbjorn Granlund <tege@noisy.tmg.se>.

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The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister

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

The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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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.
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All Python releases are Open Source (see http://www.opensource.org for
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1.345 spf13-pflag 1.0.5

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1.346 github.com/cilium/ebpf 0.6.2

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1.347 libdconf1 0.36.0-1

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ARG LICENSE_FILES=".*\(Dockerfile\|\.go\|\.hcl\|\.sh\)"

FROM ghcr.io/google/addlicense:v1.0.0 AS addlicense

FROM alpine:3.14 AS base
WORKDIR /src
RUN apk add --no-cache cpio findutils git

FROM base AS set
ARG LICENSE_ARGS
ARG LICENSE_FILES
RUN --mount=type=bind,target=.,rw 
    --mount=from=addlicense,source=/app/addlicense,target=/usr/bin/addlicense 
    find . -regex "${LICENSE_FILES}" | xargs addlicense ${LICENSE_ARGS} 
    && mkdir /out 
    && find . -regex "${LICENSE_FILES}" | cpio -pdm /out

FROM scratch AS update
COPY --from=set /out /

FROM base AS validate
ARG LICENSE_ARGS
ARG LICENSE_FILES
RUN --mount=type=bind,target=.
    --mount=from=addlicense,source=/app/addlicense,target=/usr/bin/addlicense 
    find . -regex "${LICENSE_FILES}" | xargs addlicense -check ${LICENSE_ARGS}

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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.)

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

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

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

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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1.359 libblockdev-part-err2 2.23-2ubuntu3

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

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

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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D3DES (V5.09) -

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lib/hcrypto/test_dh.c

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1.368 liblmdb0 0.9.24-1

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1.369 libparted2 3.3-4ubuntu0.20.04.1

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goproperties - properties file decoder for Go

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL   string `json:"url,omitempty"`
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1.378 linux-headers-generic 5.4.0.105.109

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
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The precise terms and conditions for copying, distribution and modification follow.

@heading TERMS AND CONDITIONS

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

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

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========

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SIGNATURE OF TY COON, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:
ftp://gcc.gnu.org/pub/gcc/releases/  (for full releases)
svn://gcc.gnu.org/svn/gcc/   (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git  (for Modula-2)

The current gcc-9 source package is taken from the SVN gcc-9-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-9</td>
<td>libgnat-9</td>
<td>gnat-9-doc</td>
</tr>
<tr>
<td>BRIG</td>
<td>gccbrig-9</td>
<td>libhsail-rt0</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>gcc-9</td>
<td>gcc-9-doc</td>
<td></td>
</tr>
<tr>
<td>C++</td>
<td>g++-9</td>
<td>libstdc++6</td>
<td>libstdc++6-9-doc</td>
</tr>
<tr>
<td>D</td>
<td>gdc-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-9</td>
<td>libgfortran3</td>
<td>gfortran-9-doc</td>
</tr>
<tr>
<td>Go</td>
<td>gccgo-9</td>
<td>libgo0</td>
<td></td>
</tr>
<tr>
<td>Objective C</td>
<td>gobjc-9</td>
<td>libobjc2</td>
<td></td>
</tr>
<tr>
<td>Objective C++</td>
<td>gobjc++-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modula-2</td>
<td>gm2-9</td>
<td>libgm2</td>
<td></td>
</tr>
</tbody>
</table>

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td></td>
<td>libstdc++6-9-dbg</td>
<td>libstdc++6-9-pic</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td></td>
<td>libphobos-9-dev</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4  GCC intrinsics (platform-dependent)
gcc-9-base                 Base files common to all compilers
gcc-9-soft-float           Software floating point (ARM only)
gcc-9-source                The sources with patches

Ada:
libgnatvsn-dev, libgnatvsn9  GNAT version library

C:
cpp-9, cpp-9-doc            GNU C Preprocessor
libssp0-dev, libssp0        GCC stack smashing protection library
libquadmath0                    Math routines for the __float128 type
fixinincludes                     Fix non-ANSI header files

C, C++, and Fortran 95:
libgomp1-dev, libgomp1GCC OpenMP (GOMP) support library
libitm1-dev, libitm1GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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gcc/emults.c, gcc/gbl-ctors.h, gcc/gecov-io.h, gcc/libgcov.c, 
gcc/tsystem.h, gcc/typeclass.h).
- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
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* Cygnus Support, drepper@cygnus.com.

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D:
  gdc-9             GNU D Compiler
  librphobos-9-dev  D standard runtime library

The D source package is made up of the following components.

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- d/*

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The DMD Compiler implementation of the D programming language:
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The Zlib data compression library:
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* /opt/ws_local/PERMITS_SQL/1010493791_1591902140.63/0/netkit-ftp-0.17-orig-tar-gz/netkit-ftp-0.17/ftp/glob.h

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* /opt/ws_local/PERMITS_SQL/1010493791_1591902140.63/0/netkit-ftp-0.17-orig-tar-gz/netkit-ftp-0.17/ftp/main.c
* /opt/ws_local/PERMITS_SQL/1010493791_1591902140.63/0/netkit-ftp-0.17-orig-tar-gz/netkit-ftp-0.17/ftp/cmdtab.c

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0.17/ftp/domacro.c
*/opt/ws_local/PERMITS_SQL/1010493791_1591902140.63/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/ruserpass.c

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"
"from: @(#)ftp.1	6.18 (Berkeley) 7/30/91
"from: ftp.1,v 1.2 1997/06/08 20:01:35 dholland Exp
"
Found in path(s):
*/opt/ws_local/PERMITS_SQL/1010493791_1591902140.63/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/netrc.5
1.388 libvorbis 1.3.6 2ubuntu1

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This may be considered the experimental upstream source, and since there doesn’t seem to be any other upstream source, the only upstream source.

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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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D3DES (V5.09) -

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lib/hcrypto/test_dh.c

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Gocheck - A rich testing framework for Go

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concluded that weaker conditions might promote sharing better.

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

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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>
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Version 2.1, February 1999

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1.419 yaml 1.2.0

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Upstream-Contact: Glyph Lefkowitz <glyph@twistedmatrix.com>
Source: https://github.com/python-hyper/hyperlink

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The current Debian maintainer are maximilian attems <maks@debian.org>
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The current ubuntu release can be found at:

The Debian tree is maintained with "git" at:
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Jeff Bailey <jbailey@ubuntu.com>,
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1.430 metis l 4.1-2-4build2

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It was downloaded from:

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Upstream Author:

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A warning has been included in modified files

/* WARNING : This file has been modified for Code_Aster */
/* http://www.code-aster.org */

The original distribution of METIS can be found at
http://www-users.cs.umn.edu/~karypis/metis/index.html

This is onmetis binary (renamed onmetis.exe) which is called by Code_Aster through the onmetis shell-script. pmetis and kmetis are called directly.
The onmetis script, pmetis and kmetis executables have to be copied (or make a symbolic link to) into Code_Aster tools directory (generally it looks like ...

The Debian packaging is:

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------

Da: George Karypis <karypis@cs.umn.edu>
A: 'Andrea Palazzi' <palazziandrea@yahoo.it>
References: <003901cc194f$29c440a0$7d4cc1e0@cs.umn.edu>
<240159.1237.qm@web132207.mail.ird.yahoo.com>
In-reply-to: <240159.1237.qm@web132207.mail.ird.yahoo.com>
Oggetto: RE: Distributing METIS/Metis-EDF with Debian
Message-id: <009401cc1959$6c924210$45b6c630@cs.umn.edu>
Mime-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: quoted-printable

yes I approve.
-----Original Message-----
From: Andrea Palazzi [mailto:palazziandrea@yahoo.it]
Sent: Monday, May 23, 2011 9:50 AM
To: George Karypis
Subject: RE: Distributing METIS/Metis-EDF with Debian

> Da: George Karypis <karypis@cs.umn.edu>
> Oggetto: RE: Distributing METIS/Metis-EDF with Debian
> A: "Andrea Palazzi" <palazziandrea@yahoo.it>
> Data: Luned 23 maggio 2011, 15:41
> Andrea,
> > Yes I approve the posting of ParMETIS' source code and binary
> > packages.
> > BTW, there is a major re-write of Metis/ParMetis that should hit the
> > web within a month or so.
> >
> > George
> Greetings,

I've made a little error, the package involved is not ParMETIS but METIS, and its derivated work made by EDF, METIS-EDF.

So, the question is:

Do you approve of the posting of METIS source and binary packages on the 800+ Debian mirror servers around the world, as a means of delivery to our users?

Sorry for asking you twice, and thank you for your cooperation.

Sincerely,
Andrea Palazzi

!DSPAM:4dda741d80511600028764!

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1.432 pythonurllib 1.25.8-2ubuntu0.1 all

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Upstream-Name: urllib
Upstream-Contact: Andrey Petrov <andrey.petrov@shazow.net>
Source: https://pypi.org/project/urllib3/

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1.435 diffutils 3.7-3

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### 1.436 go-shellwords 1.0.12

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1.437 github.com/bits-and-blooms/bitset 1.2.0

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1.438 go-restful 2.9.5+incompatible

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
  * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
  *
  * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
  * http://www.hypermall.com/
  * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
  * interrupts us (except possibly for removal/insertion of the cable?)
  * 10/4/97 - began heavy inline documentation of the code. Corrected typos
  * and spelling mistakes.
  * 10/5/97 - added code to handle PHY interrupts, disable PHY on
  * loss of link, and correctly re-enable PHY when link is
  * re-established. (put back CFG_PHYIE)
  *
  * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
  *
  * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
  *
  * Linux driver for the IDT77201 NICStAR PCI ATM controller.
  * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
  * see init_nicstar() for PHY initialization to change this. This driver
  * expects the Linux ATM stack to support scatter-gather lists
  * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
  *
  * Implementing minimal-copy of received data:
  * IDT always receives data into a small buffer, then large buffers
  * as needed. This means that data must always be copied to create
  * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
  * Fix is simple: make large buffers large enough to hold entire
  * SDU, and leave <small_buffer_data> bytes empty at the start. Then
  * copy small buffer contents to head of large buffer.
  * Trick is to avoid fragmenting Linux, due to need for a lot of large
  * buffers. This is done by 2 things:
  * 1) skb->destructor / skb->atm.recycle_buffer
  * combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
* *
* M. Welsh, 6 July 1996
* *
* */

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Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:


I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7c6bfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009:

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic_ops project:

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I (Mathieu Desnoyers) wrote the remainder of the code.

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1.458 distro-info 0.23ubuntu1

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<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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

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Upstream-Contact: bug-libsigsegv@gnu.org
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          2008-2009 Luca Capello <luca@pca.it>
          2011-2016 Christoph Egger <christoph@debian.org>
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1.461 linux-base 4.5ubuntu3.7

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1.462 libalgorithm-diff-xs-perl 0.04-6
1.462.1 Available under license:
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):
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

<table>
<thead>
<tr>
<th>Rate</th>
<th>Algorithm::Diff</th>
<th>Algorithm::Diff::XS</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.7/s</td>
<td>--</td>
<td>-98%</td>
</tr>
<tr>
<td>806/s</td>
<td>5402%</td>
<td>--</td>
</tr>
</tbody>
</table>

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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'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.";

=heading NAME

Algorithm::Diff::XS - Algorithm::Diff with XS core loop

=heading 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 );

=heading 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>.

=heading BENCHMARK

<table>
<thead>
<tr>
<th>Rate</th>
<th>Algorithm::Diff</th>
<th>Algorithm::Diff::XS</th>
</tr>
</thead>
</table>
The benchmarking script is as below:

```perl
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):
* /opt/cola/permits/1125674286_1611416022.78/0/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.

/ *

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

ppport.h -- Perl/Pollution/Portability Version 3.06_01

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.
Don't output any hints. Hints often contain useful portability notes.

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

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

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.

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

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

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

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided
to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions 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 you 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.

<table>
<thead>
<tr>
<th>Function</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>sv_2pv_nolen()</td>
<td>NEED_sv_2pv_nolen</td>
<td>NEED_sv_2pv_nolen_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg()</td>
<td>NEED_sv_catpvf_mg</td>
<td>NEED_sv_catpvf_mg_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions using the C\texttt{DPPP_NAMESPACE} macro. Just C\texttt{\#define} the macro before including C\texttt{ppport.h}:

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

The default namespace is C\texttt{DPPP_}.

=head1 EXAMPLES

To verify whether C\texttt{ppport.h} is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, C\texttt{ppport.h} can be run as a Perl script to check your source code. Simply say:

perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

perl ppport.h --nochanges

You can specify a different C\texttt{diff} program or options, using the C\texttt{--diff} option:
perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

To display portability information for the C<newSVpvn> function, use:

perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

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

to display portability information for all C<_nomg> functions or

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

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2005, 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 ($@ and grep /^-/i, @ARGV) {
  usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
die "Getopt::Long not found. Please don't use any options\n"
} else {
  $opt{'compat-version'} = 5;
}

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(
AvFILL|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
FREETMPS||
GIMME_V|5.004000|n
GIMME||
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
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_tieelem|5.007002||p
PERL_MAGIC_tiedscalar|5.007002||p
PERL_MAGIC_tie|5.007002||p
PERL_MAGIC_utf8|5.008001||p
PERL_MAGIC_uvar_elem|5.007003||p
PERL_MAGIC_uvar|5.007002||p
PERL_MAGIC_vec|5.007002||p
PERL_MAGIC_vstring|5.008001||p
PERL_QUAD_MAX|5.004000||p
PERL_QUAD_MIN|5.004000||p
PERL_REVISION|5.006000||p
PERL_SCAN_ALLOW_UNDERSCORES|5.007003||p
PERL_SCAN_DISALLOW_PREFIX|5.007003||p
PERL_SCAN_GREATER_THAN_UV_MAX|5.007003||p
PERL_SCAN_SILENT_ILLDIGIT|5.008001||p
PERL_SHORT_MAX|5.004000||p
PERL_SHORT_MIN|5.004000||p
PERL_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 rsfp filters|5.004050||p
PL rsfp|5.004050||p
PL rs||n
PL stack base|5.004050||p
PL stack sp|5.004050||p
Open Source Used In CNAAP Standard (Ubuntu + docker Engine) Virtual Machine 1.0
SvRV_set|5.009003|
SvRV||
SvSETMAGIC||
SvSHARE|5.007003|
SvSTASH_set|5.009003|
SvSTASH||
SvSetMagicSV_nosteal|5.004000|
SvSetMagicSV|5.004000|
SvSetSV_nosteal|5.004000|
SvSetSV||
SvTAINTED_off|5.004000|
SvTAINTED_on|5.004000|
SvTAINTED|5.004000|
SvTAINT|||
SvTRUE|||
SvTYPE|||
SvUNLOCK|5.007003|
SvUOK|5.007001|
SvUPGRADE|||
SvUTF8_off|5.006000|
SvUTF8_on|5.006000|
SvUTF8|5.006000|
SvUVXx|5.004000|p
SvUVX|5.004000|p
SvUV_nomg|5.009001|p
SvUV_set|5.009003|
SvUVx|5.004000|p
SvUV|5.004000|p
SvVOK|5.008001|
THIS||n
UNDERBAR|5.009002|p
UVSIZE|5.006000|p
UVTYPE|5.006000|p
UVX|5.007001|p
UVof|5.006000|p
UVuf|5.006000|p
UVxf|5.006000|p
XCPT_CATCH|5.009002|p
XCPT_RETHROW|5.009002|p
XCPT_TRY_END|5.009002|p
XCPT_TRY_START|5.009002|p
XPUSHi||
XPUSHmortal|5.009002|p
XPUSHn||
XPUSHp||
XPUSHs||
XPUSHu|5.004000|p
XSRETURN_EMPTY|||
ck_exec
ck_exists
ck_exit
ck_fst
ck_fun
ck_glob
ck_grep
ck_index
ck_join
ck_lengthconst
ck_Ifun
ck_listiob
ck_match
ck_method
ck_null
ck_open
ck_repeat
ck_require
ck_retarget
ck_return
ck_rfun
ck_rvconst
ck_sassign
ck_sort
ck_spair
ck_split
ck_subr
ck_substr
ck_svconst
ck_trunc
ck_unpack
c1_and
cl_anything
c1_init_zero
c1_init
c1_is_anything
cl_or
closest_cop
convert
cop_free
cr_textfilter
croak_nocontext
v
vncsighandler
a
custom_op_desc
custom_op_name
djSP[]
do_aexec[]
do_aexec[]
do_aspawn[]
do_binmode[5.004050]
do_chomp[]
do_chop[]
do_close[]
do_dump_pad[]
do_eof[]
do_exec3[]
do_execfree[]
do_exec[]
do_gv_dump[5.006000]
do_gvgv_dump[5.006000]
do_hv_dump[5.006000]
do_ipcctl[]
do_ipcget[]
do_join[]
do_kv[]
do_magic_dump[5.006000]
do_msgrcv[]
do_msgsnd[]
do_oddball[]
do_op_dump[5.006000]
do_open9[5.006000]
do_openc[5.007001]
do_openc[5.004000]
do_pipe[]
do_pmop_dump[5.006000]
do_print[]
do_readline[]
do_seek[]
do_semop[]
do_shmio[]
do_spawn_nowait[]
do_spawn[]
do_sprintf[]
do_sv_dump[5.006000]
do_sysseek[]
do_tell[]
do_trans_complex_utf8[]
do_trans_complex[]
do_trans_count_utf8[]
do_trans_count[]
do_trans_simple_utf8[]
do_trans_simple[]
do_trans[]
do_vecget||
do_vecset||
do_vop||
docatch_body||
docatch||
doeval||
dofile||
dofindlabel||
doform||
doing_taint[5.008001]|n
dooneliner||
doopen.pm||
doparseform||
dopoptoeval||
dopoptolabel||
dopoptoloop||
dopotosub_at||
dopotosub||
downwind||
downtarray||
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dump_eval[5.006000]
dump_fds||
dump_form[5.006000]
dump_indent[5.006000]|v
dump_mstats||
dump_packsubs[5.006000]
dump_sub[5.006000]
dump_vindent[5.006000]
dumpuntil||
dup_atrlist||
emulate_eaccess||
eval_pv[5.006000]|p
eval_sv[5.006000]|p
expect_number||
fbm_compile[5.005000]
fbm_instr[5.005000]
fd_on_nosuid_fs||
filter_add||
filter_del||
filter_gets||
filter_read||
find_beginning||
find_byclass||
find_in_my_stash||
find_runcv||
find_rundefsvoffset[5.009002]
find_script||
find_uninit_var
fold_constants
forbid_setid
force_ident
force_list
force_next
force_version
force_word
form_nocontext
form
fp_dup
fprintf_nocontext
free_global_struct
free_tied_hv_pool
free_temps
gen_constant_list
get_av
get_context
get_cv
get_db_sub
get_debug_opts
get_hash_seed
get_hv
get_mstats
get_no_modify
get_num
get_op_descs
get_op_names
get_opargs
get_ppaddr
get_sv
get_vtbl
getcwd_sv
g-getenv_len
gp_dup
gp_free
gp_ref
grok_bin
grok_hex
grok_number
grok_numeric_radix
grok_oct
group_end
gv_AVadd
gv_HVadd
gv_IOadd
gv_autoload4
gv_check
gv_dump[5.006000]
gv_efullname3[5.004000]
gv_efullname4[5.006001]
gv_efullname[]
gv_ename[]
gv_fetchfile[]
gv_fetchmeth_autoload[5.007003]
gv_fetchmethod_autoload[5.004000]
gv_fetchmethod[]
gv_fetchmeth[]
gv_fetchpvn_flags[5.009002]
gv_fetchpv[]
gv_fetchsv[5.009002]
gv_fullname3[5.004000]
gv_fullname4[5.006001]
gv_fullname[]
gv_handler[5.007001]
gv_init_sv[]
gv_init[]
gv_share[]
gv_stashpvn[5.006000]p
gv_stashpv[]
gv_stashsv[]
he_dup[]
hek_dup[]
hfreeentries[]
hsplit[]
hv_assert[5.009001]
hv_auxinit[]
hv_clear_placeholders[5.009001]
hv_clear[]
hv_delayfree_ent[5.004000]
hv_delete_common[]
hv_delete_ent[5.004000]
hv_delete[]
hv_eiter_p[5.009003]
hv_eiter_set[5.009003]
hv_exists_ent[5.004000]
hv_exists[]
hv_fetch_common[]
hv_fetch_ent[5.004000]
hv_fetch[]
hv_free_ent[5.004000]
hv_iterinit[]
hv_iterkeysrv[5.004000]
hv_iterkey[]
hv_iternext_flags[5.008000]
hv_iternextsv[]
newHVhv|5.005000|
newHV||
newIO||
newLISTOP||
newLOGOP||
newLOOPEX||
newLOOPOP||
newMYSUB|5.006000|
newNULLLIST||
newOP||
newPADOP|5.006000|
newPMOP||
newPROG||
newPVOP||
newRANGE||
newRV_inc|5.004000|p
newRV_noinc|5.006000|p
newRVv||
newSLICEOP||
newSTATEOP||
newSUB||
newSVOP||
newSVREF||
newSVheck|5.009003|
newSVivv||
newSVnvv||
newSVpvf_nocontext|vn
newSVpvf|5.004000|v
newSVpvn_share|5.007001|
newSVpvn|5.006000|p
newSVpvv||
newSVravv|
newSVsvv|
newSVuvv|5.006000|p
newSVv||
newUNOP||
newWHILEOP|5.009003|
newXSproto|5.006000|
newXS|5.006000|
new_collate|5.006000|
new_constant||
new_ctype|5.006000|
new_hev||
new_logopv||
new_numeric|5.006000|
new_stackinfo|5.005000|
new_version|5.009000|
next_symbol||
nextargv
nextchar
ninstr
no_bareword_allowed
no_fh_allowed
no_op
not_a_number
nothreadhook
nuke_stacks
num_overflow
oopsAV
oopsCV
oopsHV
op_clear
op_const_sv
op_dump
op_free
op_null
op_refcnt_lock
op_refcnt_unlock
open_script
pMY_CXT
pMY_CXT
pTHX
pTHX
pack_cat
pack_rec
package
packlist
pad_add_anon
pad_add_name
pad_alloc
pad_block_start
pad_check_dup
pad_comptable
pad_findlex
pad_findmy
pad_fixup_inner_anons
pad_free
pad_leavemy
pad_new
pad_push
pad_reset
pad_setsv
pad_sv
pad_swipe
pad_tidy
pad_UNDEF
rxres_save
safesyscalloc[5.006000]
safesysfree[5.006000]
safesysmalloc[5.006000]
safesysrealloc[5.006000]
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save_116[5.004000]
save_132
save_18[5.006000]
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save_aptr
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save_clearsv
save_delete
saveDestructor_x[5.006000]
saveDestructor[5.006000]
save_freeop
save_freepv
save_freesv
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save_gp[5.004000]
save_hash
save_hek_flags
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save_hints[5.005000]
save_hptr
save_int
save_item
save_iv[5.005000]
save_lines
save_list
save_long
save_magic
save_mortalizesv[5.007001]
save_nogv
save_op
save_padsv[5.007001]
save_pptr
save_re_context[5.006000]
save_scalar_at
save_scalar
save_set_svflags[5.009000]
save_shared_pvref[5.007003]
save_sptr
save_svref
save_threadsv
save_vptr
savepvn
savepv
savesharedpv
savestack_grow_cnt
savestack_grow
savestack_grow_cnt
savestack_grow
savestack_grow
sawparens
scalar_mod_type
scalarboolean
scalarkids
scalarseq
scalarvoid
scalar
scan_bin
scan_commit
scan_const
scan_formline
scan_heredoc
scan_hex
scan_ident
scan_inputsymbol
scan_num
scan_oct
scan_pat
scan_str
scan_substr
scan_trans
scan_version
scan_vstring
scan_word
scope
screaminstr
seed
set_context
set_csh
set_numeric_local
set_numeric_radix
set_numeric_standard
setdefout
setenv_getix
sharehek_flags
sharehek
si_dup
sighandler
simplify_sort
skipspace
sortsv||5.007003|
ss_dup||
stack_grow||
start_glob||
start_subparse||5.004000|
stashpv_hvname_match||5.009003|
stdize_locale||
strEQ||
strGE||
strGT||
strLE||
strLT||
strNE||
str_to_version||5.006000|
strnEQ||
strnNE||
study_chunk||
sub_crush_depth||
sublex_done||
sublex_push||
sublex_start||
sv_2bool||
sv_2cv||
sv_2io||
sv_2iuv_non_preserve||
sv_2iv_flags||5.009001|
sv_2iv||
sv_2mortal||
sv_2nv||
sv_2pv_flags||5.007002|
sv_2pv_nolen|5.006000||p
sv_2pvbyte_nolen||
sv_2pvbyte|5.006000||p
sv_2pvutf8_nolen|5.006000|
sv_2pvutf8|5.006000|
sv_2pv||
sv_2uv_flags||5.009001|
sv_2uv|5.004000||p
sv_add_arena||
sv_add_backref||
sv_backoff||
sv_bless||
sv_cat_decode||5.008001|
sv_catpv_mg|5.006000||p
sv_catpvf_mg_nocntxt|||pvn
sv_catpvf_mg|5.006000|5.004000|pv
sv_catpvf_nocntxt||vn
sv_catpvf|5.004000|v
sv_catpvn_flags\[5.007002\]
sv_catpvn_mg\[5.006000\]|p
sv_catpvn_nomg\[5.007002\]|p
sv_catpvn||
sv_catpv||
sv_catsv_flags\[5.007002\]
sv_catsv_mg\[5.006000\]|p
sv_catsv_nomg\[5.007002\]|p
sv_catsv||
sv_chop||
sv_clean_alh||
sv_clean_objs||
sv_clear||
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sv_cmp||
sv_collxfrm||
sv_compile_2op\[5.008001\]
sv_copypv\[5.007003\]
sv_dec||
sv_del_backref||
sv_derived_from\[5.004000\]
sv_dump||
sv_dup||
sv_eq||
sv_force_normal_flags\[5.007001\]
sv_force_normal\[5.006000\]
sv_free2||
sv_free_arenas||
sv_free||
sv_gets\[5.004000\]
sv_grow||
sv_inc||
sv_insert||
sv_isa||
sv_isobject||
sv_iv\[5.005000\]
sv_len_utf8\[5.006000\]
sv_len||
sv_magicext\[5.007003\]
sv_magic||
sv_mortalcopy||
sv_newmortal||
sv_newref||
sv_nolocking\[5.007003\]
sv_nosharing\[5.007003\]
sv_nounlocking\[5.007003\]
sv_nv\[5.005000\]
sv_peek\[5.005000\]
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sv_pos_b2u[5.006000]
sv_pos_u2b[5.006000]
sv_pvbyten_force[5.006000]
sv_pvbyten[5.006000]
sv_pvbyte[5.006000]
sv_pvn_force_flags[5.007002]
sv_pvn_force[p]
sv_pvn_nomg[5.007003][p]
sv_pvn[5.006000][p]
sv_pvutf8n_force[5.006000]
sv_pvutf8n[5.006000]
sv_pvutf8[5.006000]
sv_pv[5.006000]
sv_recode_to_utf8[5.007003]
sv_reftype[]
sv_release_COW[]
sv_release_IVX[]
sv_replace[]
sv_report_used[]
sv_reset[]
sv_rwweaken[5.006000]
sv_setiv_mg[5.006000][p]
sv_setiv[]
sv_setnv_mg[5.006000][p]
sv_setnv[]
sv_setpv_mg[5.006000][p]
sv_setpvf_mg_nocontext[5.004000][pv]
sv_setpvf_mg[5.006000][5.004000][pv]
sv_setpvf_nocontext[5.008001][vn]
sv_setpv[5.004000][v]
sv_setpviv_mg[5.008001]
sv_setpvn_mg[5.006000][p]
sv_setpvn[]
sv_setpvn[]
sv_setref_iv[]
sv_setref_nv[]
sv_setref_pvn[]
sv_setref_pv[]
sv_setsv_cow[]
sv_setsv_flags[5.007002]
sv_setsv_mg[5.006000][p]
sv_setsv_nomg[5.007002][p]
sv_setsv[]
sv_setsv[]
sv_setuv_mg[5.006000][p]
sv_setuv[5.006000][p]
sv_tainted[5.004000]
sv_taint||5.004000|
sv_true||5.005000|
sv_unglob||
sv_uni_display||5.007003|
sv_unmagic||
sv_unref_flags||5.007001|
sv_unref||
sv_untaint||5.004000|
sv_upgrade||
sv_usepvn_mg||5.006000||p
sv_usepvn||
sv_utf8_decode||5.006000|
sv_utf8 downgrade||5.006000|
sv_utf8 encode||5.006000|
sv_utf8 upgrade_flags||5.007002|
sv_utf8 upgrade||5.007001|
sv_uv||5.006000||p
sv_vcatpvf_mg||5.006000||5.004000||p
sv_vcatpvfn||5.004000|
sv_vcatpvf||5.006000||5.004000||p
sv_vsetpvf_mg||5.006000||5.004000||p
sv_vsetpvfn||5.004000|
sv_vsetpvf||5.006000||5.004000||p
svtype||
swallow_bom||
swash_fetch||5.007002|
swash_init||5.006000|
sys_intern_clear||
sys_intern_dup||
sys_intern_init||
taint_env||
taint_proper||
tmps_grow||5.006000|
toLOWER||
toUPPER||
to_byte_substr||
to_uni_fold||5.007003|
to_uni_lower_lc||5.006000|
to_uni_lower||5.007003|
to_uni_title_lc||5.006000|
to_uni_title||5.007003|
to_uni_upper_lc||5.006000|
to_uni_upper||5.007003|
to_utf8_case||5.007003|
to_utf8_fold||5.007003|
to_utf8_lower||5.007003|
to_utf8_substr||
to_utf8_title||5.007003|
vstringify||5.009000|
vwarner||5.006000|
vwarn||5.006000|
wait4pid|||
warn_nocontext|||vn
warner_nocontext|||vn
warner||5.006000|v
warn|||v
watch|||
whichsig|||
write_to_stderr|||
yyerror|||
yylex|||
yyparse|||
yywarn|||
);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %depends);
my $replace = 0;
my $hint = '';
while (<DATA>) {
if ($hint) {
if (m{^\s*\*\s(.*?)\s*$}) {
$hints{$hint} ||= ''; # suppress warning with older perls
$hints{$hint} .= "$1\n";
}
else {
$hint = '';
}
}
$hint = $1 if m{^\s*$rccs\sHint:\s+(\w+)\s*$};
$replace = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
$replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};

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if (m\{^s*\$rccs\s+\(\w+\)\s+depends\s+on\s+\(\w+\(\s*\,\s*\w+\)\)\s+\$rcce\s+\$\}) { 
    push @{$depends{$1}}, map { s/\s+///g; $_ } split /,/, $2; 
}

$need{$1} = 1 if m\{^\bif\{defined\(\$\)\b\} \{< adaptation continues here >\}

if (exists $opt{\'api-info\'}) {
    my $f;
    my $count = 0;
    my $match = $opt{\'api-info\'} =~ m\!^/(.*)$/ ? $1 : "^Q\$opt{\'api-info\'}\!^S";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print \n
        my $info = 0;
        if (exists $API{$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 "Shints{$f}" if exists $hints{$f};
            $info++;
        }
        unless ($info) {
            print "No portability information available\n";
        }
        $count++;
    }
    if ($count > 0) {
        print \n    }
    else {
        print "Found no API matching \'$opt{\'api-info\'}'\n";
    }
    exit 0;
}

if (exists $opt{\'list-provided\'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        if (exists $FLAGS{$f}) {
            
        }
}
push @flags, 'explicit' if exists $need{$f};
push @flags, 'depend' if exists $depends{$f};
push @flags, 'hint' if exists $hints{$f};
my $flags = @flags ? ' ['.join(', ', @flags).']' : '';
print "$f$flags\n";
}
exit 0;
}
my @files;
my @srcext = qw( xs c h cc cpp );
my $srcext = join '|', @srcext;
if (@ARGV) {
my %seen;
@files = grep { -f && !exists $seen{$_} } map { glob $_ } @ARGV;
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /\.($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*.$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/\.($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
unless (@files) {
die "No input files given!\n";
}
my(%files, %global, %revreplace);

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%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\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$#ccom$cce";
}egsx;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = ($c =~ /#.*include.*\Q$ppport\E/);
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {

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```perl
while ($c =~ /^\$HS*#$HS*define\$HS+(NEED_\((\w+?)\(_GLOBAL\)?)\$/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)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}
else {
warning("Uses Perl_$func instead of $func");
$file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
{$func$1(}g);
}
}
for $func (sort keys %{$file{uses_replace}}) {
warning("Uses $func instead of $replace{$func}");
$file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
}
for $func (sort keys %{$file{uses}}) {
next unless $file{uses}{$func}; # if it's only a dependency
if (exists $file{uses_deps}{$func}) {
diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));

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} elsif (exists $replace{$func}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/$func/$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} & $file{needs}{$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 = "\n"

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

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

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

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

# 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 = "--- $file
+++ $file.patched
HE..."; $file
+++ $file.patched
HEADER
} 

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

    if (!defined $diff) {
        $diff = run_diff('-u', $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+)\.(\d+)/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /\d+\.[_]+$/) {
        die "cannot parse version '$ver'\n";
    }

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

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

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

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

sub format_version
{
    my $ver = shift;

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

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

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

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

return $ver;
}

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

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

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

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

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

my %given_hints;
sub hint
{
    $opt{quiet} and return;
    $opt{hints} or return;
    my $func = shift;
    exists $hints{$func} or return;
    $given_hints{$func}++ and return;
    my $hint = Shints{$func};
    $hint =~ /\n/mg;
    print "   --- hint for $func ---\n\n", $hint;
sub usage
{
    my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$H+SYNOPSIS\s*^(.*?)\s*^=/ms;
    my %M = ( 'I' => '*' );
    $usage =~ s/^[^}\s+perl\s+]?$/^$X $0/;
    $usage =~ s/\[(A-Z)]<\([^>]+)>/<SM\[S1]S2SM\[S1]/g;

    print <<ENDUSAGE;
    Usage: $usage
    See perldoc $0 for details.
ENDUSAGE
    exit 2;
}

__DATA__
/

Found in path(s):
* /opt/cola/permits/1125674286_1611416022.78/0/libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/ppport.h

1.463 software-properties 0.99.9.8
1.463.1 Available under license :

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Version 2.1, February 1999

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support/man2html.c

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1.467 libjson-glib-common 1.4.4-2ubuntu2
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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 * Linux driver for the IDT77201 NICStar PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
Trick is to avoid fragmenting Linux, due to need for a lot of large buffers. This is done by 2 things:
1) skb->destructor / skb->atm.recycle_buffer combined, allow nicstar_free_rx_skb to be called to recycle large data buffers
2) skb_clone of received buffers
See nicstar_free_rx_skb and linearize_buffer for implementation details.

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* M. Welsh, 6 July 1996

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

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M. Welsh, 6 July 1996

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 * *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 * *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

Open Source Used In CNAAP Standard (Ubuntu + docker Engine) Virtual Machine 1.0 5714
* 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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<signature of Ty Coon>, 1 April 1989
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1.475 ubuntu-advantage-tools 27.7~18.04.1

1.475.1 Available under license:
Feature: License check timer only runs in environments where necessary

@series.lts
@uses.config.contract_token
@uses.config.machine_type.gcp.generic
Scenario Outline: license_check job should run periodically on gcp generic Its
   Given a `<release>` machine with ubuntu-advantage-tools installed
   # verify its enabled
   Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
   # run it and verify that it didn't disable itself
   When I run `systemctl start ua-license-check.service` with sudo
   When I wait `5` seconds
   Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
   # verify attach disables it
   When I wait `5` seconds
   When I attach `contract_token` with sudo
   Then I verify the `ua-license-check` systemd timer is disabled
   # verify detach enables it
   When I run `ua detach --assume-yes` with sudo
   And I wait `5` seconds
   Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes
   # verify stopping and deleting marker file and stopping disables it
   # We need to call stop both before and after rm-ing the marker file
   # because at least one version of systemd requires it before (245.4-4ubuntu3.11
   # on focal gcp), and every other tested version of systemd requires it after
   # But this is only necessary when manually running the steps or in this test.
   # `disable_license_checks_if_applicable` works fine with only calling stop after,
   # as evidenced by the "verify attach disables it" steps above passing on focal gcp.
   When I run `systemctl stop ua-license-check.timer` with sudo
   When I run `rm /var/lib/ubuntu-advantage/marker-license-check` with sudo
   When I run `systemctl stop ua-license-check.timer` with sudo
   Then I verify the `ua-license-check` systemd timer is disabled
   # verify creating marker file enables it
   When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
   Then I verify the `ua-license-check` systemd timer is scheduled to run within `10` minutes

Examples: version

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<td>focal</td>
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<td>jammy</td>
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@series.impish
@uses.config.contract_token
@uses.config.machine_type.gcp.generic

Scenario Outline: license_check is disabled gcp generic non lts
   Given a `<release>` machine with ubuntu-advantage-tools installed
   Then I verify the `ua-license-check` systemd timer is disabled
   # verify creating marker file enables it, but it disables itself
   When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
   Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run
   within `10` minutes
   When I run `systemctl start ua-license-check.service` with sudo
When I wait `5` seconds
Then I verify the `ua-license-check` systemd timer is disabled
# verify attach and detach does not enable it
When I wait `5` seconds
When I attach `contract_token` with sudo
When I run `ua detach --assume-yes` with sudo
When I wait `5` seconds
Then I verify the `ua-license-check` systemd timer is disabled
Examples: version

<table>
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@series.all
@uses.config.contract_token
@uses.config.machine_type.lxd.container
@uses.config.machine_type.lxd.vm
@uses.config.machine_type.aws.generic
@uses.config.machine_type.azure.generic

Scenario Outline: license_check is disabled everywhere but gcp generic
Given a `<release>` machine with ubuntu-advantage-tools installed
Then I verify the `ua-license-check` systemd timer is disabled
When I reboot the `<release>` machine
Then I verify the `ua-license-check` systemd timer is disabled
# verify creating marker file enables it, but it disables itself
When I run `touch /var/lib/ubuntu-advantage/marker-license-check` with sudo
Then I verify the `ua-license-check` systemd timer either ran within the past `5` seconds OR is scheduled to run within `10` minutes
When I run `systemctl start ua-license-check.service` with sudo
When I wait `5` seconds
And I verify that running `grep "Disabling gcp_auto_attach job" /var/log/ubuntu-advantage-license-check.log` with sudo exits `0`
And I verify that running `grep "Disabling gcp_auto_attach job" /var/log/ubuntu-advantage.log` `with sudo` exits `1`
Then I verify the `ua-license-check` systemd timer is disabled
# verify attach and detach does not enable it
When I wait `5` seconds
When I attach `contract_token` with sudo
When I run `ua detach --assume-yes` with sudo
When I wait `5` seconds
Then I verify the `ua-license-check` systemd timer is disabled
Examples: version

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<td>jammy</td>
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</tbody>
</table>
Scenario Outline: license_check is disabled everywhere but gcp generic

Given a `<release>` machine with ubuntu-advantage-tools installed
When I create the file `/etc/ubuntu-advantage/uaclient.conf` with the following:

```
contract_url: 'https://contracts.canonical.com'
data_dir: /var/lib/ubuntu-advantage
log_level: debug
log_file: /var/log/ubuntu-advantage.log
```

When I run `ua auto-attach` with sudo
Then I verify the `ua-license-check` systemd timer is disabled

# verify creating marker file enables it, but it disables itself
When I run `touch /var/lib/ubuntu-advantage(marker-license-check)` with sudo
Then I verify the `ua-license-check` systemd timer either ran within the past 5 seconds OR is scheduled to run within 10 minutes

When I run `systemctl start ua-license-check.service` with sudo
When I wait 5 seconds
Then I verify the `ua-license-check` systemd timer is disabled

Examples: version

<table>
<thead>
<tr>
<th>release</th>
</tr>
</thead>
<tbody>
<tr>
<td>xenial</td>
</tr>
<tr>
<td>bionic</td>
</tr>
<tr>
<td>focal</td>
</tr>
</tbody>
</table>

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# This timer is only activated when on a GCP Ubuntu LTS instance that is not already using Ubuntu Advantage services (via ua-license-check.path).
# This timer triggers a service that will poll the metadata for a GCP instance. 
# If the user has added an Ubuntu Pro license to the instance, it will activate Ubuntu Advantage services.
[Unit]
Description=Timer to poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)

[Timer]
OnCalendar=*/0/5
RandomizedDelaySec=5min
OnStartupSec=2min
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: ubuntu-advantage-script
Source: https://github.com/CanonicalLtd/ubuntu-advantage-script

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# that is not already using Ubuntu Advantage services.
# This path triggers a timer that will periodically poll the metadata for a GCP
# instance. If the user has added an Ubuntu Pro license to the instance, it will
# activate Ubuntu Advantage services.
[Unit]
Description=Trigger to poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)

[Path]
PathExists=/var/lib/ubuntu-advantage/marker-license-check
Unit=ua-license-check.timer

[Install]
WantedBy=multi-user.target
# This service is only activated when on a GCP Ubuntu LTS instance that is not
# already using Ubuntu Advantage services (via ua-license-check.timer).
# This service polls the metadata for a GCP instance. If the user has added an
# Ubuntu Pro license to the instance, it will activate Ubuntu Advantage services.
[Unit]
Description=Poll for Ubuntu Pro licenses (Only enabled on GCP LTS non-pro)
After=network.target network-online.target systemd-networkd.service ua-auto-attach.service

[Service]
Type=oneshot
ExecStart=/usr/bin/python3 /usr/lib/ubuntu-advantage/license_check.py

1.476 secureboot-db 1.5
1.476.1 Available under license:
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: secureboot-db
Upstream-Contact: Jamie Strandboge <jamie@canonical.com>
Source: https://launchpad.net/ubuntu/+source/secureboot-db
Files: *
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1.477 lxd-agent-loader 0.4
1.477.1 Available under license:
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
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

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1.478 containerd-aufs 1.0.0

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1.479 libvolume-key1 0.3.12-3.1

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        include/libssh/socket.h
        include/libssh/string.h
        include/libssh/threads.h
        include/libssh/threads.h
        include/libssh/wrapper.h
src/auth1.c
src/base64.c
src/bignum.c
src/bind.c
src/buffer.c
src/client.c
src/connect.c
src/crc32.c
src/ecdh.c
src/error.c
src/gcrypt_missing.c
src/init.c
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src/kex1.c
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       tests/authentication.c
       tests/benchmarks/bench1.sh
       tests/benchmarks/bench2.sh
       tests/chmodtest.c
       tests/client/torture_proxycommand.c
       tests/client/torture_sftp_dir.c
       tests/client/torture_sftp_read.c
       tests/cmdline.c
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       tests/generate.py
       tests/sftp_stress/main.c
       tests/test_exec.c
       tests/test_ssh_bind_accept_fd.c
       tests/test_tunnel.c
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       tests/unittests/torture_isipaddr.c
       tests/unittests/torture_keyfiles.c
       tests/unittests/torture_list.c
       tests/unittests/torture_misc.c
       tests/unittests/torture_options.c
       tests/unittests/torture_pki.c
       tests/unittests/torture_rand.c

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Files: examples/authentication.c
       examples/connect_ssh.c
       examples/examples_common.h
       examples/knownhosts.c
       examples/libssh_scp.c
       examples/libsshpp.cpp
       examples/libsshpp_noexcept.cpp
       examples/proxy.c
       examples/sample.c
       examples/samplesftp.c
examples/sampleshd-cb.c
examples/sampleshd-kbdint.c
examples/scp_download.c
examples/sshnetcat.c

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       src/external/ed25519.c
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       src/external/ge25519.c
       src/external/ge25519_base.data
       src/external/sc25519.c

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       tests/pkd/pkd_daemon.c
       tests/pkd/pkd_daemon.h
       tests/pkd/pkd_hello.c
       tests/pkd/pkd_keyutil.c
       tests/pkd/pkd_keyutil.h
       tests/pkd/pkd_util.c
       tests/pkd/pkd_util.h

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Files: src/channels.c
       src/channels1.c
       src/gzip.c
       src/known_hosts.c
       src/misc.c
       src/options.c
       src/pki.c
       src/pki_crypto.c
       src/pki_gcrypt.c
       src/sftp.c

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       include/libssh/options.h
src/agent.c
src/callbacks.c
src/config.c
tests/client/torture_forward.c
tests/client/torture_request_env.c
tests/torture.c
tests/torture.c
tests/torture.h

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        cmake/Modules/FindArgp.cmake
        cmake/Modules/FindCMocka.cmake
        cmake/Modules/FindGCrypt.cmake
        cmake/Modules/FindGSSAPI.cmake
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1.484 sbsigntool 0.9.2 2ubuntu1

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 *
 * Whom: Steve Mertz <steve@dragon-ware.com>
 * Date: 20010111
 * Why: Because I couldn't find one that I liked. So I wrote this one.
 * *
 */

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from typing import Any, Dict
JsonDict = Dict[str, Any]
YamlDict = Dict[str, Any]

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FIXME: Should be renamed

import json

def computeEventTimeDeltas(events: str) -> list:
    lines = events.splitlines()
    N = len(lines)
    assert N > 0, 'event list should not be empty'

    events = [json.loads(line) for line in lines]

    deltas = []
    for i in range(1, N):
        previousTs = events[i - 1]['timestamp']
        currentTs = events[i]['timestamp']
        delta = currentTs - previousTs

        deltas.append((lines[i - 1], delta))
        deltas.append((lines[N-1], 0))

    return deltas

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"Publish jobs gets enqueued into a multi-publisher, which publish them
to redis in a batch fashion, using a pipeline.

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https://redis.io/topics/pipelining
Weird leaks https://bugs.python.org/issue31620

```
import asyncio

class PipelinedPublisher:
    def __init__(self, redis, batchSize=None):
        self.redis = redis
        self.queue = asyncio.Queue()
        self.batchSize = batchSize or 100
        self.lock = asyncio.Lock()

        self.xaddMaxLength = 1000

    async def publishAll(self):
        pipe = self.redis.pipeline()
        async with self.lock:
            while True:
                try:
                    job = self.queue.get_nowait()
                except asyncio.QueueEmpty:
                    break
                else:
                    self.publish(pipe, job)
                    self.queue.task_done()

            await pipe.execute()

    def enqueue(self, job):
        self.queue.put_nowait(job)

    async def publish(self, pipe, job):
        appkey, channel, data = job
        appChannel = '{}::{}'.format(appkey, channel)
        pipe.xadd(appChannel, {'json': data},
                  max_len=self.xaddMaxLength, exact_len=False)

    async def publishNow(self, job):
        async with self.lock:
            pipe = self.redis.pipeline()
            self.publish(pipe, job)
            await pipe.execute()

    async def push(self, job, batchPublish=False):
        if not batchPublish:
            await self.publishNow(job)
        return
```

self.enqueue(job)

if self.queue.qsize() >= self.batchSize:
    await self.publishAll()

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/server/pipelined_publisher.py
No license file was found, but licenses were detected in source scan.

"Cobra main driver.
Calls into sub commands like git.

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"

def main():
    ""
   ___      _
  / __
__| |__  _ __ __ _
| / __| '_ \ '__/ _` |
| / /___| |_) | | | (_| |
\____\___/|__/_|  \__,_|
   _____ _
  / __\|"
  / /\ |`
  / /\ |`
 `__\ `_

Cobra is a realtime messaging server using Python3, WebSockets and Redis.
"

def main():
    ""
   ___      _
  / __
__| |__  _ __ __ _
| / __| '_ \ '__/ _` |
| / /___| |_) | | | (_| |
\____\___/|__/_|  \__,_|
   _____ _
  / __\|"
  / /\ |`
  / /\ |`
 `__\ `_

for loader, module_name, is_pkg in walk_packages(__path__, __name__ + '.*'):
    module = __import__(module_name, globals(), locals(), ['__name__'])
    cmd = getattr(module, module_name.rsplit('.', 1)[-1])
    if isinstance(cmd, click.Command):
        main.add_command(cmd)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/__init__.py
No license file was found, but licenses were detected in source scan.

""Tools used when running as superuser (which we should almost never do)

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import os
import sys

import click

def preventRootUsage():
    "" Make sure a root user cannot run this command"

    if os.geteuid() == 0:
        msg = 'Cobra cannot be run as root / sudo. Exiting'
        click.secho(msg, fg='red')
        sys.exit(1)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/superuser.py
No license file was found, but licenses were detected in source scan.

""Setup cobra

Copyright (c) 2018-2019 Machine Zone, Inc. All rights reserved.

import click

from cobras.common.apps_config import AppConfig, getDefaultAppsConfigPath
from cobras.common.superuser import preventRootUsage

@click.command()
def init():
    ""Setup cobra"

    preventRootUsage()

    path = getDefaultAppsConfigPath()
    appsConfig = AppConfig(path)
    appsConfig.generateDefaultConfig()

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/init.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1
Name: cobras
Version: 1.2.1
Summary: A realtime messaging server using WebSockets and Redis.
Home-page: https://github.com/machinezone/cobra
Author: Benjamin Sergeant
Author-email: bsergean@gmail.com
License: BSD 3

Description:

# General

Cobra is a realtime messaging server using Python3, WebSockets and Redis PubSub. It was presented in great details during [RedisConf 2019](https://events.redislabs.com/redis-conf/redis-conf-2019/).

* [slides](https://bsergean.github.io/redis_conf_2019/slides.html)
* [youtube](https://www.youtube.com/watch?v=o8CC8yYiRQE&t=147s)

Cobra has been used in production receiving heavy traffic for about a year. Since it was written in Python it was named after a snake as an homage to a great programming language.

# News

Cobra is actively being developed, check out the [changelog](CHANGELOG.md) to know what's cooking.

# Installation

## With pip

````
``` pip install cobras ```
```

## With docker

````
docker pull bsergean/cobra ```
```

## For development

````
git clone <url>
cd cobra
python3 -m venv venv
source venv/bin/activate
make dev
make test ```
# Usage

$ cobra
Usage: cobra [OPTIONS] COMMAND [ARGS]...

Cobra is a realtime messaging server using Python3, WebSockets and Redis PubSub.

Options:
  --version  Show the version and exit.
  --help     Show this message and exit.

Commands:
  admin     Run admin commands.
  health    Health check
  init      Setup cobra
  monitor   Monitor cobra
  publish   Publish to a channel
  run       Run the cobra server
  redis_subscribe  Subscribe to a channel (with redis)
  subscribe  Subscribe to a channel
  secret    Generate secrets used for authentication...

To run the server use `cobra run`. You can run a health-check against the server with `cobra health`.

```
cobra health --url 'ws://jeanserge.com/v2?appkey=_health' --secret A5a3BdE7bc6Df5AAFFcadE7F9D7F17E -role health
```

# Setup

To run in production you will need a redis (version > 5) instance. Here are environment variables that you will likely want to tweak, to connect to 2 redis instances (for scalability), and to bind on 0.0.0.0 so that the internet can see your instance.

```
- name: COBRA_HOST
  value: 0.0.0.0
- name: COBRA_REDIS_URLS
  value: redis://redis1:redis://redis2
```

# Thank you
There would be no cobra without some other amazing open-source projects and tech. Here are 3 very remarkable ones.

- [Python](https://www.python.org/) (and [asyncio](https://realpython.com/async-io-python/), one of the killer python3 feature !)
- [Redis](https://redis.io/), the swiss army knife of the internet which provide a very scalable publish/subscribe feature to dispatch messages while retaining them and allowing lookups of old messages (see [Redis Streams](https://redis.io/topics/streams-intro)).

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.7
Description-Content-Type: text/markdown
Provides-Extra: dev
Provides-Extra: tests

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/PKG-INFO
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras.egg-info/PKG-INFO
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Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/server/app.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/server/redis_subscriber.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/server/stream_sql.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/client/health_check.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/client/monitor.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/algorithm.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/client/client.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/redis_connections.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/memory_debugger.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/read.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/apps_config.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-
1.2.1/cobras/server/pipelined_publishers.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/server/protocol.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/server/stats.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/auth_hash.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/publish.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/task_cleanup.py

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

""Handle credential files

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"

import os

from cobras.common.apps_config import AppConfig, getDefaultAppsConfigPath

def createCredentials(role, secret):
    return {'role': role, 'secret': secret}

def getDefaultRoleForApp(app) -> str:
    path = os.getenv('COBRA_APPS_CONFIG', getDefaultAppsConfigPath())
    appsConfig = AppConfig(path)
    return appsConfig.getDefaultRoleForApp(app)

def getDefaultSecretForApp(app) -> str:
    path = os.getenv('COBRA_APPS_CONFIG', getDefaultAppsConfigPath())
    appsConfig = AppConfig(path)
    return appsConfig.getDefaultSecretForApp(app)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/client/credentials.py

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

""Subscribe to a channel

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"

import click
import uvloop

from cobras.common.superuser import preventRootUsage
from cobras.common.throttle import Throttle
from cobras.server.redis_connections import RedisConnections
from cobras.server.redis_subscriber import (RedisSubscriberMessageHandlerClass, runSubscriber)

class MessageHandlerClass(RedisSubscriberMessageHandlerClass):
    def __init__(self, obj):
        self.cnt = 0
        self.cntPerSec = 0
        self.throttle = Throttle(seconds=1)

    def log(self, msg):
        print(msg)

    async def on_init(self, redisConnection):
        pass

    async def handleMsg(self, msg: str, position: str, payloadSize: int) -> bool:
        self.cnt += 1
        self.cntPerSec += 1

        if self.throttle.exceedRate():
            return True

        print(f"#messages {self.cnt} msg/s {self.cntPerSec}")
        self.cntPerSec = 0

        return True

@click.command()
@click.option('--redis_urls', default='redis://localhost')
@click.option('--redis_password')
@click.option('--channel')
@click.option('--appkey')
@click.option('--position')
def redis_subscribe(redis_urls, redis_password, channel, position, appkey):
    """Subscribe to a channel""

    # Subscribe to a channel

    cobra subscribe --redis_urls redis://localhost:7379 --channel foo --appkey bar # noqa

    cobra subscribe --redis_urls redis://localhost:6379 --channel foo --appkey bar

    [From a bench container]
cobra subscribe --redis_urls 'redis://localhost:7001;redis://localhost:7002' --channel foo --appkey bar # noqa

preventRootUsage()
uvloop.install()

appChannel = '{}::{}'.format(appkey, channel)
redisConnections = RedisConnections(redis_urls, redis_password)
runSubscriber(redisConnections, appChannel, position, MessageHandlerClass)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1.2.1.tar-gz/cobras-1.2.1/cobras/runner/redis_subscribe.py
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1.2.1.tar-gz/cobras-1.2.1/cobras/bavarde/runner/client.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1.2.1.tar-gz/cobras-1.2.1/cobras/server/redis_kv_store.py
No license file was found, but licenses were detected in source scan.

""Monitor cobra

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"

import click
import uvloop

from cobras.client.credentials import (createCredentials, getDefaultRoleForApp, getDefaultSecretForApp)
from cobras.client.monitor import runMonitor
from cobras.common.apps_config import STATS_APPKEY
from cobras.common.superuser import preventRootUsage

DEFAULT_URL = f'ws://127.0.0.1:8765/v2?appkey={STATS_APPKEY}'

@click.command()
@click.option('--url', default=DEFAULT_URL)
@click.option('--role', default=getDefaultRoleForApp('stats'))
@click.option('--secret', default=getDefaultSecretForApp('stats'))
@click.option('--raw', is_flag=True)
@click.option('--hide_nodes', is_flag=True)
@click.option('--hide_roles', is_flag=True)
@click.option('--subscribers', is_flag=True)
@click.option('--role_filter')
```python
def monitor(url, role, secret, raw, role_filter, hide_nodes, hide_roles, subscribers, system):
    '''Monitor cobra'''
    preventRootUsage()
    uvloop.install()

    credentials = createCredentials(role, secret)
    runMonitor(url, credentials, raw, role_filter,
               not hide_nodes, not hide_roles, subscribers, system)

    Found in path(s):
    * /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/monitor.py
    No license file was found, but licenses were detected in source scan.

    '''Subscribe to a channel''

    Copyright (c) 2018-2019 Machine Zone, Inc. All rights reserved.
    
    import asyncio
    import json
    import click
    import uvloop

    from cobras.client.client import subscribeClient
    from cobras.client.credentials import (createCredentials, getDefaultRoleForApp,
                                           getDefaultSecretForApp)
    from cobras.common.apps_config import PUBSUB_APPKEY
    from cobras.common.superuser import preventRootUsage
    from cobras.common.throttle import Throttle

    DEFAULT_URL = f'ws://127.0.0.1:8765/v2?appkey={PUBSUB_APPKEY}'

    class MessageHandlerClass:
        def __init__(self, websockets, args):
            self.cnt = 0
            self.cntPerSec = 0
            self.throttle = Throttle(seconds=1)
            self.verbose = args['verbose']

        async def on_init(self):
            pass

        async def handleMsg(self, msg: str) -> bool:
```

---

Open Source Used In CNAAP Standard (Ubuntu + docker Engine) Virtual Machine 1.0 6033
self.cnt += 1
self.cntPerSec += 1

if self.verbose >= 1:
    data = json.loads(msg)
    body = data['body']
    message = body['messages'][0]
    position = body['position']
    print(f'{message} at position {position}"

if self.throttle.exceedRate():
    return True

print(f"#messages {self.cnt} msg/s {self.cntPerSec}")
self.cntPerSec = 0

return True

@click.command()
@click.option('--url', default=DEFAULT_URL)
@click.option('--role', default=getDefaultRoleForApp('pubsub'))
@click.option('--secret', default=getDefaultSecretForApp('pubsub'))
@click.option('--channel', default='sms_republished_v1_neo')
@click.option('--position')
@click.option('--verbose', '-v', count=True)
@click.option('--stream_sql')
def subscribe(url, role, secret, channel, position, stream_sql, verbose):
    '''Subscribe to a channel
    
    ..."

    preventRootUsage()
    uvloop.install()

    credentials = createCredentials(role, secret)

    asyncio.get_event_loop().run_until_complete(
        subscribeClient(url, credentials, channel, position,
                        stream_sql, MessageHandlerClass,
                        {'verbose': verbose}))

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/subscribe.py

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

"""Small class to record data attached to a connection

FIXME: use this to enforce publish+subscribe permissions.
import uuid

class ConnectionState:
    def __init__(self, appkey):
        self.appkey = appkey

        self.connection_id = uuid.uuid4().hex[:8]
        selfsubscriptions = {}
        self.ok = True
        self.role = 'na'
        self.authenticated = False
        self.permissions = []

        self.nonce = None
        self.error = 'na'

        self.path = f'/tmp/log_{self.connection_id}'
        self.fileLogging = False

    def log(self, msg):
        log = f'[{self.connection_id}::{self.role}] {msg}'
        print(log)

        if self.fileLogging:
            with open(self.path, 'a') as f:
                f.write(log + 'n')

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1.tar-gz/cobras-1.2.1/cobras/server/connection_state.py
No license file was found, but licenses were detected in source scan.

"""Compute our version number

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"""

import pkg_resources

from cobras.common.memoize import memoize

def getVersion():
"Get our own version using pkg_resources"

    return pkg_resources.get_distribution("cobras").version

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/version.py
No license file was found, but licenses were detected in source scan.

"Capture memory usage

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"

import os
import psutil
from cobras.common.memoize import memoize

@memoize
def getContainerMemoryLimit():
    """In bytes"

    path = '/sys/fs/cgroup/memory/memory.limit_in_bytes'
    if not os.path.exists(path):
        return psutil.virtual_memory().total
    else:
        with open(path) as f:
            mem = f.read()
        return int(mem)

def getProcessUsedMemory():
    p = psutil.Process()
    return p.memory_info().rss

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/memory_usage.py
No license file was found, but licenses were detected in source scan.

"Memoization decorator for functions taking one or more arguments.

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""
```python
def memoize(f):
    """Memoization decorator for functions taking one or more arguments."""

class Memodict(dict):
    """Helper class derived from dict"

    def __init__(self, f):
        """Constructor"

        dict.__init__(self)
        self.f = f

    def __call__(self, *args):
        """Call function"

        return self[args]

    def __missing__(self, key):
        """Missing method"

        ret = self[key] = self.f(*key)
        return ret

    return Memodict(f)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/memoize.py

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

"""Generate secrets used for authentication

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"

import click

from cobras.common.apps_config import genSecret
from cobras.common.superuser import preventRootUsage

@click.command()
def secret():
    """
    Generate secrets used for authentication
    
    """

    \
    cobra secret
    """
```
preventRootUsage()

secret = genSecret()
print(secret)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1.tar-gz/cobras-1.2.1/cobras/runner/secret.py
No license file was found, but licenses were detected in source scan.

"djb2 hash (unused)

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"

def djb2Hash(data):
"""Return a 32 bits digest"

    hash = 5381
    for x in data:
        hash = ((hash << 5) + hash) + ord(x)
    return hash & 0xFFFFFFFF

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1.tar-gz/cobras-1.2.1/cobras/common/djb2_hash.py
No license file was found, but licenses were detected in source scan.

"""Bavarde main driver.
    Calls into sub commands like git.

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"

from pkgutil import walk_packages
import click
import coloredlogs

coloredlogs.install(level='WARNING')

@click.group()
@click.version_option()
def main():
    """

Bavarde is a chat app written on top of cobra
for loader, module_name, is_pkg in walk_packages(__path__, __name__ + '.'):  
    module = __import__(module_name, globals(), locals(), [__name__])  
    cmd = getattr(module, module_name.rsplit('.', 1)[-1])  
    if isinstance(cmd, click.Command):  
        main.add_command(cmd)

Found in path(s):  
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras- 
1.2.1/cobras/bavarde/runner/__init__.py

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

"Module used for python packaging

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...

from __future__ import absolute_import

import platform
import os
import sys
from setuptools import find_packages, setup

if sys.version_info[:2] < (3, 7):
    print('Error: Cobra requires Python 3.7')
    sys.exit(1)

ROOT = os.path.realpath(os.path.join(os.path.dirname(__file__)))

with open(os.path.join(ROOT, 'DOCKER_VERSION')) as f:
    VERSION = f.read().strip()

dev_requires = [
    'flake8',
    'isort',
    'honcho',
    'mypy',
    'aiojobs==0.1.0',
    'twine'
]

tests_require = [
    'pytest',
    'pytest-cov',
    'pytest-xdist',
]
with open('requirements.txt') as f:
    install_requires = f.read().splitlines()

setup(
    name='cobras',
    version=VERSION,
    author='Benjamin Sergeant',
    author_email='bsergean@gmail.com',
    url='https://github.com/machinezone/cobra',
    description='A realtime messaging server using WebSockets and Redis.',
    long_description=open(os.path.join(ROOT, 'README.md')).read(),
    long_description_content_type='text/markdown',
    packages=find_packages(exclude=['tests']),
    zip_safe=False,
    install_requires=install_requires,
    extras_require={
        'tests': tests_require,
        'dev': dev_requires
    },
    license='BSD 3',
    include_package_data=True,
    entry_points={
        'console_scripts': [
            'cobra = cobras.runner:main',
            'bavarde = cobras.bavarde.runner:main'
        ],
    },
    classifiers=[
        'Development Status :: 5 - Production/Stable',
        'Environment :: Web Environment',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.7',
    ],
)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/setup.py
No license file was found, but licenses were detected in source scan.

"Publish to a channel"
```python
import asyncio
import functools
import json
import click
import uvloop
from cobras.client.client import client
from cobras.client.credentials import (createCredentials, getDefaultRoleForApp,
    getDefaultSecretForApp)
from cobras.common.apps_config import ADMIN_APPKEY
from cobras.common.superuser import preventRootUsage

DEFAULT_URL = f'ws://127.0.0.1:8765/v2?appkey={ADMIN_APPKEY}'

async def clientCallback(websocket, **args):
    method = args['method']
    params = args.get('params')
    params = json.loads(params)

    pdu = {
        "action": "rpc/admin",
        "id": 1,
        "body": {
            "method": method,
            "params": params
        }
    }

    await websocket.send(json.dumps(pdu))

    response = await websocket.recv()
    print(response)

async def start(url, credentials, verbose, method, params):
    callback = functools.partial(clientCallback,
        verbose=verbose,
        method=method,
        params=params)

    task = asyncio.create_task(
        client(url, credentials, callback))
    await task
```
@click.command()
@click.option('--url', default=DEFAULT_URL)
@click.option('--role', default=getDefaultRoleForApp('admin'))
@click.option('--secret', default=getDefaultSecretForApp('admin'))
@click.option('--verbose', is_flag=True)
@click.option('--method', default='close_all')
@click.option('--params', default='{}')
def admin(url, role, secret, verbose, method, params):
    
    def admin(url, role, secret, verbose, method, params):
        """Admin

        \
        cobra admin --method toggle_file_logging --params '{"connection_id": "..."}"
        ""

        preventRootUsage()
        uvloop.install()

        credentials = createCredentials(role, secret)

        asyncio.get_event_loop().run_until_complete(start(url, credentials,
                        verbose, method, params))

        Found in path(s):
        * /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/admin.py
        No license file was found, but licenses were detected in source scan.

        """Class to used to throttle function calls, so that something isn't called too often

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        ""

        from datetime import datetime, timedelta

        class Throttle(object):
            def __init__(self,
                seconds: int = 1,
                minutes: int = 0,
                hours: int = 0) -> None:
                self.throttle_period = timedelta(
                    seconds=seconds, minutes=minutes, hours=hours
                )
                self.time_of_last_call = datetime.min

            def exceedRate(self) -> bool:
now = datetime.now()
time_since_last_call = now - self.time_of_last_call

if time_since_last_call > self.throttle_period:
    self.time_of_last_call = now
    return False
else:
    return True

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/throttle.py
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"''Bot

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...

import click

from cobras.bavarde.bot.bot import runBot

@click.command()
def bot():
    "''Bot
    ...

    runBot()

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/bavarde/runner/bot.py
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"''Health check.

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Subscribe to a channel, publish and make sure a message is received
...

import sys
import urllib.request

import click
import uvloop

from cobras.client.credentials import (getDefaultRoleForApp,
                                      getDefaultSecretForApp)
from cobras.client.health_check import (getDefaultHealthCheckChannel,
                                           getDefaultHealthCheckHttpUrl,
                                           getDefaultHealthCheckUrl, healthCheck)
from cobras.common.superuser import preventRootUsage

@click.option('--url', default=getDefaultHealthCheckUrl())
@click.option('--http_url', default=getDefaultHealthCheckHttpUrl)
@click.option('--http', is_flag=True)
@click.option('--role', default=getDefaultRoleForApp('health'))
@click.option('--secret', default=getDefaultSecretForApp('health'))
@click.option('--channel', default=getDefaultHealthCheckChannel())
@click.command()
def health(url, http_url, http, role, secret, channel):
    '''Health check

    cobra health --http
    cobra health --http_url http://127.0.0.1:8765/health/
    ...
    '''
    preventRootUsage()
uvloop.install()

    if http:
        print('url:', http_url)
        with urllib.request.urlopen(http_url) as response:
            html = response.read()
            print(html.decode('utf8'), end='''
    else:
        try:
            healthCheck(url, role, secret, channel)
        except ValueError as e:
            click.secho(f'System is unhealthy !!: {e}', fg='red')
            sys.exit(1)

        click.secho('System is healthy', fg='green')

    Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/health.py
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'''Run the cobra frontend

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...
import os
import click
import sentry_sdk
import uvloop

from cobras.common.apps_config import getDefaultAppsConfigPath
from cobras.common.superuser import preventRootUsage
from cobras.server.app import AppRunner

@click.command()
@click.option('--host', envvar='COBRA_HOST', default='127.0.0.1',
              help='Binding host address. Set to 0.0.0.0 in prod environments')
@click.option('--port', envvar='COBRA_PORT', default='8765')
@click.option('--redis_urls', envvar='COBRA_REDIS_URLS',
               default='redis://localhost;redis://localhost')
@click.option('--redis_password', envvar='COBRA_REDIS_PASSWORD')
@click.option('--apps_config_path', envvar='COBRA_APPS_CONFIG',
               default=getDefaultAppsConfigPath())
@click.option('--verbose', envvar='COBRA_VERBOSE', is_flag=True)
@click.option('--prod', envvar='COBRA_PROD', is_flag=True)
@click.option('--plugins', envvar='COBRA_PLUGINS')
@click.option('--debug_memory', envvar='COBRA_DEBUG_MEMORY', is_flag=True)
@click.option('--sentry', envvar='COBRA_SENTRY', is_flag=True)
@click.option('--sentry_url', envvar='COBRA_SENTRY_URL')
@click.option('--no_stats', envvar='COBRA_NO_STATS', is_flag=True)
@click.option('--max_subscriptions', envvar='COBRA_MAX_SUBSCRIPTIONS',
               default=-1)
@click.option('--idle_timeout', envvar='COBRA_IDLE_TIMEOUT',
               default=5 * 60,
               help='Idle connections kicked out after X seconds')

def run(host, port, redis_urls, redis_password,
         apps_config_path, verbose, debug_memory, plugins,
         sentry, sentry_url, prod, no_stats, max_subscriptions, idle_timeout):
    """Run the cobra server"

    cobra run --redis_urls 'redis://localhost:7001;redis://localhost:7002' env COBRA_REDIS_PASSWORD=foobared cobra run

    if prod:
        os.environ['COBRA_PROD'] = '1'

    preventRootUsage()
    uvloop.install()
if sentry and sentry_url:
    sentry_sdk.init(sentry_url)

print('runServer', locals())
runner = AppRunner(host, port, redis_urls,
               redis_password, apps_config_path,
               verbose, debug_memory, plugins,
               not no_stats, max_subscriptions, idle_timeout)
runner.run()

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1.tar-gz/cobras-1.2.1/cobras/runner/run.py

1.516 open-isns 0.97-3
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1.518 python-cffi 1.14.0-1build1

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1.520 tcp-wrappers 7.6.q-30
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1.521 brotli 1.0.7-6ubuntu0.1
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1.522 linux-headers-5.4.0-105-generic 5.4.0-105.119

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* *
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* 
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* 
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* 
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* 
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
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1.536 python3-click 7.0-3

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# binary only, patch it back to the system, and then use a wrapper

Found in path(s):
* /opt/cola/permits/1301600786_1649264324.4/0/python-click-7-0-orig-1-tar-gz/Click-7.0/click/_compat.py
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Metadata-Version: 1.2
Name: Click
Version: 7.0
Summary: Composable command line interface toolkit
Home-page: https://palletsprojects.com/p/click/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets Team
Maintainer-email: contact@palletsprojects.com
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Project-URL: Documentation, https://click.palletsprojects.com/
Project-URL: Code, https://github.com/pallets/click
Description: click_

Click is a Python package for creating beautiful command line interfaces
in a composable way with as little code as necessary. It's the "Command
Line Interface Creation Kit”. It's highly configurable but comes with sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun while also preventing any frustration caused by the inability to implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing
----------

Install and update using `pip`:

.. code-block:: text

    $ pip install click

Click supports Python 3.4 and newer, Python 2.7, and PyPy.


A Simple Example
----------------

What does it look like? Here is an example of a simple Click program:

.. code-block:: python

    import click

    @click.command()
    @click.option("--count", default=1, help="Number of greetings.")
    @click.option("--name", prompt="Your name",
                   help="The person to greet.")
    def hello(count, name):
        """Simple program that greets NAME for a total of COUNT times."""
        for _ in range(count):
            click.echo("Hello, %s!" % name)

    if __name__ == '__main__':
        hello()
And what it looks like when run:

```text
$ python hello.py --count=3
Your name: Click
Hello, Click!
Hello, Click!
Hello, Click!
```

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  * Windows: https://ci.appveyor.com/project/pallets/click

  * Test coverage: https://codecov.io/gh/pallets/click

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
import io
import re
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("click/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r"__version__ = '(.*?)'", f.read()).group(1)

setup(
    name="Click",
    version=version,
    url="https://palletsprojects.com/p/click/",
    project_urls={
        "Documentation": "https://click.palletsprojects.com/",
        "Code": "https://github.com/pallets/click",
        "Issue tracker": "https://github.com/pallets/click/issues",
    },
    license="BSD",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets Team",
    maintainer_email="contact@palletsprojects.com",
    description="Composable command line interface toolkit",
    long_description=readme,
    packages=["click"],
    include_package_data=True,
    python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*",
    classifiers=[
        "Development Status :: 5 - Production/Stable",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
    ],
)
"Programming Language :: Python :: 2.7",
"Programming Language :: Python :: 3",
"Programming Language :: Python :: 3.4",
"Programming Language :: Python :: 3.5",
"Programming Language :: Python :: 3.6",
"Programming Language :: Python :: 3.7",
]
)
)

Found in path(s):
* /opt/cola/permits/1301600786_1649264324.4/0/python-click-7.0-orig-1-tar-gz/Click-7.0/setup.py
No license file was found, but licenses were detected in source scan.

\$ click\_

===========

Click is a Python package for creating beautiful command line interfaces
in a composable way with as little code as necessary. It's the "Command
Line Interface Creation Kit". It's highly configurable but comes with
sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun
while also preventing any frustration caused by the inability to
implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing
==========
Install and update using `pip`:

.. code-block:: text

   $ pip install click

Click supports Python 3.4 and newer, Python 2.7, and PyPy.


A Simple Example

-----------
What does it look like? Here is an example of a simple Click program:

```python
import click

@click.command()
@click.option('--count', default=1, help='Number of greetings."
@click.option('--name', prompt='Your name',
              help='The person to greet."

def hello(count, name):
    """Simple program that greets NAME for a total of COUNT times."
    for _ in range(count):
        click.echo('Hello, %s!' % name)

if __name__ == '__main__':
    hello()
```

And what it looks like when run:

```text
$ python hello.py --count=3
Your name: Click
Hello, Click!
Hello, Click!
Hello, Click!
```

Donate
------

The Pallets organization develops and supports Click and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`_.

.. _please donate today: https://palletsprojects.com/donate

Links
-----

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* Documentation: https://click.palletsprojects.com/
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* Issue tracker: https://github.com/pallets/click/issues
* Test status:
  * Linux, Mac: https://travis-ci.org/pallets/click
  * Windows: https://ci.appveyor.com/project/pallets/click
* Test coverage: https://codecov.io/gh/pallets/click

Found in path(s):
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Found in path(s):
* /opt/cola/permits/1301600786_1649264324.4/0/python-click-7-0-orig-1-tar-gz/Click-7.0/tests/test_formatting.py
No license file was found, but licenses were detected in source scan.

.. _contrib:

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

click-contrib

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

As the userbase of Click grows, more and more major feature requests pop up in
Click’s bugtracker. As reasonable as it may be for those features to be bundled
with Click instead of being a standalone project, many of those requested
features are either highly experimental or have unproven practical use, while
potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of
possibly experimental third-party packages whose feature set does not belong
into Click, but also a playground for major features that may be added to Click
in the future. It is also meant to coordinate and concentrate effort on writing
third-party extensions for Click, and to ease the effort of searching for such
extensions. In that sense it could be described as a low-maintenance
alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different
than what you expect from Click itself. While published under a common
organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

Found in path(s):
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----

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* /opt/cola/permits/1301600786_1649264324.4/0/python-click-7-0-orig-1-tar-gz/Click-7.0/LICENSE.rst
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1.537 compose-spec-godotenv 1.1.1

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1.538 p11-kit 0.23.20-1ubuntu0.1

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1.539 sg3-utils 1.44-1ubuntu2

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Douglas Gilbert
10th April 2012

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1.540 otel-internal-metric 0.27.0

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For the lib/nodejs/lib/thrift/json_parse.js:

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 json_parse.js
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*/
(By Douglas Crockford <douglas@crockford.com>)

--------------------------------------------------
For lib/cpp/src/thrift/windows/SocketPair.cpp

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*/

--------------------------------------------------
For lib/py/compat/win32/stdint.h

// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
///<-----------------------------------------------

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*
* Designed and built with all the love in the world @twitter by @mdo and @fat.

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

1.541 intel-microcode
3.20210608.0ubuntu0.20.04.1

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1.542 go-metrics 0.0.1

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1.545 oauthlib 3.1.0

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1.547 python3-wadllib 1.3.3-3build1

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table of data to be supplied by an application program that uses
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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
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application-supplied function or table used by this function must
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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with the Library, with the complete machine-readable "work that
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that the user who changes the contents of definitions files in the
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
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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 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 Canonical and 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 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:


* [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
itmade 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:

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

13. https://launchpad.net/~uff-contributors

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1.0. https://launchpad.net/ubuntu-font-licence
1.560 python 2.3.0-2 all

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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(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
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1.561 init-system-helpers 1.57

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1.585 kmod 27 1ubuntu2

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  * Optimize Java serialization code when writing a small message to a stream.
  * Optimize Java serialization of strings so that UTF-8 encoding happens only
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* Added atomicops for AIX (POWER)
/* Written in 2016 by David Blackman and Sebastiano Vigna (vigna@acm.org)

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MySQL Router 8.0

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MySQL 8.0

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Google SMP patch

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lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
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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
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lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
and the initial implementation of incremental propagation, including the following new or changed files:

lib/gssapi/spnego/spnego_mech.c
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.c
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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libunwind

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Also see the ChangeLog for even more people who have helped over the years by submitting fixes, patches and reporting bugs.

Major authors:

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# This file contains a list of people who've made non-trivial contribution to the Google C++ Testing Framework project. People who commit code to the project are encouraged to add their names here. Please keep the list sorted by first names.

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1.598 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
* [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:

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: [ofl-1.1-ufl-1.0.diff.html]

References

13. https://launchpad.net/~uff-contributors

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1.599 python3-certifi 2019.11.28-1

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cabundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:


It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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1.600 libjcat 0.1.4-0ubuntu0.20.04.1

1.600.1 Available under license:
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: libjcat
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1.601 docker-ce-cli 20.10.14~3-0~ubuntu-focal

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

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1.617 whiptail 0.52.21-4ubuntu2

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

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

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

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**1.618 xauth 1.1-0ubuntu1**

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

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

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

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

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

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

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

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

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

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

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

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

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

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* Cordys R&D BV
1.625 libsoop 2.70.0-1

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

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1.626 python3-netifaces 0.10.4-1ubuntu4
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netifaces 0.10.4
================

.. image:: https://drone.io/bitbucket.org/al45tair/netifaces/status.png
   :target: https://drone.io/bitbucket.org/al45tair/netifaces/latest
   :alt: Build Status

1. What is this?
--------------

It's been annoying me for some time that there's no easy way to get the address(es) of the machine's network interfaces from Python. There is a good reason for this difficulty, which is that it is virtually impossible to do so in a portable manner. However, it seems to me that there should be a package you can easy_install that will take care of working out the details of doing so on the machine you're using, then you can get on with writing Python code without concerning yourself with the nitty gritty of system-dependent low-level networking APIs.

This package attempts to solve that problem.

2. How do I use it?
------------------

First you need to install it, which you can do by typing::

    tar xvzf netifaces-0.10.4.tar.gz
    cd netifaces-0.10.4
    python setup.py install

Once that's done, you'll need to start Python and do something like the following::
>>> import netifaces

Then if you enter

>>> netifaces.interfaces()
['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']

you'll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

>>> netifaces.ifaddresses('lo0')
{18: [{'addr': ''}], 2: [{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}], 30: [{'peer': '::1', 'netmask': 'ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': '::1'}, {'peer': '', 'netmask': 'ffff:ffff:ffff:ffff::', 'addr': 'fe80::1%lo0']}

Hmmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first:

{ 18: [...], 2: [...], 30: [...] }

Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is ``AF_LINK`` (which means the link layer interface, e.g. Ethernet), 2 is ``AF_INET`` (normal Internet addresses), and 30 is ``AF_INET6`` (IPv6).

But wait! Don't use these numbers in your code. The numeric values here are system dependent; fortunately, I thought of that when writing netifaces, so the module declares a range of values that you might need. e.g.

>>> netifaces.AF_LINK
18

Again, on your system, the number may be different.

So, what we've established is that the dictionary that's returned has one entry for each address family for which this interface has an address. Let's take a look at the ``AF_INET`` addresses now:

>>> addrs = netifaces.ifaddresses('lo0')
>>> addrs[netifaces.AF_INET]
[{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}]

You might be wondering why this value is a list. The reason is that it's possible for an interface to have more than one address, even within the same family. I'll say that again: *you can have more than one address of the same type associated with each interface*.

*Asking for "the" address of a particular interface doesn't make sense.*
Right, so, we can see that this particular interface only has one address, and, because it's a loopback interface, it's point-to-point and therefore has a "peer" address rather than a broadcast address.

Let's look at a more interesting interface.

```python
>>> addrs = netifaces.ifaddresses('en0')
>>> addrs[netifaces.AF_INET]
[{'broadcast': '10.15.255.255', 'netmask': '255.240.0.0', 'addr': '10.0.1.4'}, {'broadcast': '192.168.0.255', 'addr': '192.168.0.47'}]
```

This interface has two addresses (see, I told you...) Both of them are regular IPv4 addresses, although in one case the netmask has been changed from its default. The netmask *may not* appear on your system if it's set to the default for the address range.

Because this interface isn't point-to-point, it also has broadcast addresses.

Now, say we want, instead of the IP addresses, to get the MAC address; that is, the hardware address of the Ethernet adapter running this interface. We can do

```python
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a'}]
```

Note that this may not be available on platforms without getifaddrs(), unless they happen to implement `SIOCGIFHWADDR`. Note also that you just get the address; it's unlikely that you'll see anything else with an AF_LINK address.

Oh, and don't assume that all AF_LINK addresses are Ethernet; you might, for instance, be on a Mac, in which case:

```python
>>> addrs = netifaces.ifaddresses('fw0')
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a:bc:de'}]
```

No, that isn't an exceptionally long Ethernet MAC address---it's a FireWire address.

As of version 0.10.0, you can also obtain a list of gateways on your machine:

```python
>>> netifaces.gateways()
{2: [('10.0.1.1', 'en0', True), ('10.2.1.1', 'en1', False)], 30: [('fe80::1', 'en0', True)], 'default': { 2: (10.0.1.1, 'en0'), 30: ('fe80::1', 'en0') }}
```

This dictionary is keyed on address family---in this case, `AF_INET`---and each entry is a list of gateways as `(address, interface, is_default)` tuples.
Notice that here we have two separate gateways for IPv4 (`'AF_INET'`); some operating systems support configurations like this and can either route packets based on their source, or based on administratively configured routing tables.

For convenience, we also allow you to index the dictionary with the special value `''default''`, which returns a dictionary mapping address families to the default gateway in each case. Thus you can get the default IPv4 gateway with

```python
>>> gws = netifaces.gateways()
>>> gws['default'][netifaces.AF_INET]
('10.0.1.1', 'en0')
```

Do note that there may be no default gateway for any given address family; this is currently very common for IPv6 and much less common for IPv4 but it can happen even for `''AF_INET''`.

BTW, if you're trying to configure your machine to have multiple gateways for the same address family, it's a very good idea to check the documentation for your operating system *very* carefully, as some systems become extremely confused or route packets in a non-obvious manner.

I'm very interested in hearing from anyone (on any platform) for whom the `''gateways()''` method doesn't produce the expected results. It's quite complicated extracting this information from the operating system (whichever operating system we're talking about), and so I expect there's at least one system out there where this just won't work.

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It gets regular testing on OS X, Linux and Windows. It has also been used successfully on Solaris, and it's expected to work properly on other UNIX-like systems as well. If you are running something that is not supported, and wish to contribute a patch, please use BitBucket to send a pull request.

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Hopefully skipping the version number should remove any confusion. In
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features/bugfixes have been included as well. See the CHANGELOG for a
more complete list of changes.

Found in path(s):
* /opt/cola/permits/1301600666_1649264266.62/0/netifaces-0-10-4-orig-1-tar-gz/netifaces-0.10.4/README.rst

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license=""MIT License",
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Metadata-Version: 1.1
Name: netifaces
Version: 0.10.4
Summary: Portable network interface information.
Home-page: https://bitbucket.org/al45tair/netifaces
Author: Alastair Houghton
Author-email: alastair@alastairs-place.net
License: MIT License
Description: netifaces 0.10.4

.. image:: https://drone.io/bitbucket.org/al45tair/netifaces/status.png
   :target: https://drone.io/bitbucket.org/al45tair/netifaces/latest
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```

Then if you enter

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```

`['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']`

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```

```python
{'18': [{'addr': ''}], '2': [{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}], '30': [{'peer': ':1', 'netmask': 'ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': '::1'}, {'peer': '', 'netmask': 'ffff:ffff:ffff:ffff::', 'addr': 'fe80::1%lo0'}]}
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Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
1.627 apparentlymart-go-cidr 1.0.1

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.
1.630 update-notifier-common 3.192.30.10

1.630.1 Available under license:

This package was debianized by Michiel Sikkes <michiel@eyesopened.nl> on Fri, 22 Oct 2004 22:43:31 +0200.

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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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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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

Open Source Used In CNAAP Standard (Ubuntu + docker Engine) Virtual Machine 1.0 7165
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
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1.636 libblockdev-crypto2 2.23-2ubuntu3

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### 1.637 fwupd-signed 1.27.1ubuntu7+1.2-2~20.04.1

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### 1.638 google-uuid 1.2.0

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structure layouts and accessors, and small macros and small inline
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--------------------------------------------------
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--------------------------------------------------
For lib/py/compat/win32/stdint.h

// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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1.647 python3-requests-unixsocket 0.2.0-2

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1.648 bsd-mailx 8.1.2-0.20180807cvs-1

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PROG=mail
SRCS=version.c aux.c cmd1.c cmd2.c cmd3.c cmdtab.c collect.c \edit.c fio.c getname.c head.c v7.local.c lex.c list.c main.c names.c \popen.c quit.c send.c strings.c temp.c tty.c vars.c
SFILES=mail.help mail.tildehelp
EFILES=mail.rc
LINKS=${BINDIR}/mail ${BINDIR}/Mail ${BINDIR}/mailx ${BINDIR}/mail

distribution:

    cd ${.CURDIR}/misc; ${INSTALL} ${INSTALL_COPY} -o root -g wheel \-m 644 ${EFILES} ${DESTDIR}/etc
cd ${.CURDIR}/misc; ${INSTALL} ${INSTALL_COPY} -o ${BINOWN} -g ${BINGRP} \-m 444 ${SFILES} ${DESTDIR}/usr/share/misc

.include <bsd.prog.mk>
includes a simple facility for maintaining groups of messages together in folders. This section describes this facility.

To use the folder facility, you must tell Mail where you wish to keep your folders. Each folder of messages will be a single file. For convenience, all of your folders are kept in a single directory of your choosing. To tell Mail where your folder directory is, put a line of the form 

```
set folder=letters
```
in your
The `.mailrc` file. If, as in the example above, your folder directory does not begin with a `/`,

Mail

will assume that your folder directory is to be found starting from your home directory. Thus, if your home directory is

```
/home/person
```

the above example told

Mail
to find your folder directory in

```
/home/person/letters
```

Anywhere a file name is expected, you can use a folder name, preceded with `+.`. For example, to put a message into a folder with the

```
save +classwork
```

to save the current message in the

classwork

folder. If the

classwork

folder does not yet exist, it will be created. Note that messages which are saved with the

```
save
```

command are automatically removed from your system mailbox.

In order to make a copy of a message in a folder without causing that message to be removed from your system mailbox, use the

```
copy +classwork
```

copies the current message into the

classwork

folder and leaves a copy in your system mailbox.

The

```
folder
```

command can be used to direct

Mail
to the contents of a different folder.

For example,
Mail to read the contents of the classwork folder. All of the commands that you can use on your system mailbox are also applicable to folders, including

- type,
- delete,
and
- reply.

To inquire which folder you are currently editing, use simply:

```
{l folder
```

To list your current set of folders, use the `folders` command.

```
> pp
```

To start reading one of your folders, you can use the `-f` option described in section 2. For example:

```
% Mail -f +classwork
```

will cause

```
Mail
```
to read your classwork folder without looking at your system mailbox.

/*	$OpenBSD: version.c,v 1.7 2009/10/27 23:59:40 deraadt Exp $*/
/*	$NetBSD: version.c,v 1.4 1996/06/08 19:48:46 christos Exp $*/

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*/

/* Just keep track of the date/sid of this version of Mail.
* Load this file first to get a "total" Mail version.
*/
const char version[] = "8.1.2 01/15/2001";
"OpenBSD: mail7.nr,v 1.3 2003/06/03 02:56:11 millert Exp $
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 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
This section describes the format of messages. Messages begin with a `From` line, which consists of the word `From` followed by a user name, followed by anything, followed by a date in the format returned by the `ctime` library routine described in section 3 of the Unix Programmer’s Manual. A possible `ctime` format date is:

```
Tue Dec  1 10:58:23 1981
```

The `ctime` date may be optionally followed by a single space and a time zone indication, which should be three capital letters, such as PDT.

Following the `From` line are zero or more `header field` lines. Each header field line is of the form:

```
name: information
```

`Name` can be anything, but only certain header fields are recognized as having any meaning. The recognized header fields are:
- `article-id`
- `bcc`
- `cc`
- `from`
- `reply-to`
- `sender`
Other header fields are also significant to other systems; see, for example, the current Arpanet message standard for much more information on this topic.
A header field can be continued onto following lines by making the first character on the following line a space or tab character.

If any headers are present, they must be followed by a blank line.
The part that follows is called the body of the message, and must be ASCII text, not containing null characters.
Each line in the message body must be no longer than 512 characters and terminated with an ASCII newline character.
If binary data must be passed through the mail system, it is suggested that this data be encoded in a system which encodes six bits into a printable character (i.e.: uuencode).
For example, one could use the upper and lower case letters, the digits, and the characters comma and period to make up the 64 characters. Then, one can send a 16-bit binary number as three characters. These characters should be packed into lines, preferably lines about 70 characters long as long lines are transmitted more efficiently.

The message delivery system always adds a blank line to the end of each message. This blank line must not be deleted.

The UUCP message delivery system sometimes adds a blank line to the end of a message each time it is forwarded through a machine.

It should be noted that some network transport protocols enforce limits to the lengths of messages.

"OpenBSD: mail.1,v 1.79 2018/03/16 16:58:26 schwarze Exp $
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SUCH DAMAGE.

@(#)mail.18.8 (Berkeley) 4/28/95

MAIL 1
NAME
mail , mailx , Mail
send and receive mail
SYNOPSIS
mail
-words
-dEIinv
-b Ar list
-c Ar list
-r Ar from-addr
-s Ar subject
to-addr ...
Ek
mail
-dEIiNnv
-f
file
mail
-dEIiNnv
-u Ar user
DESCRIPTION
mail
is an intelligent mail processing system which has
a command syntax reminiscent of
ed 1
with lines replaced by messages.
The options are as follows:

- **Bl** -tag -width Ds
  - Send blind carbon copies to
    - **Ar** list
- **It Fl b Ar list**
  - Send carbon copies to
    - **Ar** list
    - of users.
    - **Ar** list
      - should be a comma separated list of names.
- **It Fl d**
  - Causes
    - **Nm mail**
      - to output all sorts of information useful for debugging
        - **Nm mail**
- **It Fl E**
  - Don't send messages with an empty body.
- **It Fl f**
  - Use an alternate mailbox.
  - Defaults to the user's
    - **Ar mbox**
    - if no
    - **Ar file**
      - is specified.
    - When quit,
      - **Nm mail**
        - writes undeleted messages back to this
          - **Ar file**
- **It Fl I**
  - Forces
    - **Nm mail**
      - to run in interactive mode, even when input is not a terminal.
      - In particular, the special
        - **Ic ~**
          - command character, used when sending mail, is only available interactively.
- **It Fl i**
  - Ignore tty interrupt signals.
  - This is
    - particularly useful when using
      - **Nm mail**
        - on noisy phone lines.
- **It Fl N**
  - Inhibits initial display of message headers
    - when reading mail or editing a mail folder.
- **It Fl n**
  - Inhibits reading
    - **Pa /etc/mail.rc**
upon startup.

Use

```
.from-addr
```

as the from address in the message and envelope.

Overrides any

```
.from
```

options in the startup files.

Specify subject on command line

(only the first argument after the

```
.subject
```

flag is used as a subject; be careful to quote subjects containing spaces).

Equivalent to:

```
.$ mail -f /var/mail/user
```

except that locking is done.

```
.v
```

Verbose mode.
The details of delivery are displayed on the user's terminal.

```
.Startup actions
```

At startup time,

```
.mail
```

will execute commands in the system command file,

```
/etc/mail.rc
```

unless explicitly told not to by using the

```
.n
```

option.

Next, the commands in the user's personal command file

```
~/.mailrc
```

are executed.

```
.mail
```

then examines its command line options to determine whether the user requested a new message to be sent or existing messages in a mailbox to be examined.

```
.Sending mail
```

To send a message to one or more people,

```
.mail
```

can be invoked with arguments which are the names of people to whom the mail will be sent.

You are then expected to type in your message, followed by a control-D
at the beginning of a line.
The section below, 

Retrieving mail, 

describes some features of 

mail available to help you compose your letter.

Reading mail

In normal usage, 

mail is given no arguments and checks your mail out of the 

post office, then 

prints out a one line header of each message found. 

The current message is initially set to the first message (numbered 1) 

and can be printed using the 

print command (which can be abbreviated 

p). 

Moving among the messages is much like moving between lines in 

ed; 

you may use 

+ 

and 

- 

to shift forwards and backwards, or simply enter a message number to move 

directly.

Disposing of mail

After examining a message you can 

delete 

or 

reply 

to it. 

Deletion causes the 

mail program to forget about the message. 

This is not irreversible; the message can be 

undeleted by giving its number, or the 

session can be aborted by giving the 

exit command. 

Deleted messages, however, will usually disappear, never to be seen again.

Specifying messages
Commands such as
   .Ic print
and
   .Ic delete
can be given a list of message numbers as arguments to apply
to a number of messages at once.
Thus
   .Ic delete 1 2
deletes messages 1 and 2, while
   .Ic delete 1
  5
deletes messages 1 through 5.
   .Pp
Messages may also be selected using one of the following categories:
   .Pp
   .Bl -tag -width Ds -offset indent -compact
   .It *
all messages
   .It $
last message
   .It :d
deleted messages
   .It :n
new messages
   .It :o
old messages
   .It :r
read messages
   .It :u
unread messages
   .El
   .Pp
Thus the command
   .Ic top ,
which prints the first few lines of a message,
could be used in
   .Ic top *
to print the first few lines of all messages.
   .Ss Replying to or originating mail
You can use the
   .Ic reply
command to
set up a response to a message, sending it back to the
person who it was from.
Text you then type in, up to an end-of-file,
defines the contents of the message.
While you are composing a message,
   .Nm mail
treats lines beginning with the tilde
For instance, typing
    .Ic ~m
(alone on a line) will place a copy
of the current message into the response, right shifting it by a single
            tab-stop (see the
    .Va indentprefix
variable, below).
Other escapes will set up subject fields, add and delete recipients
to the message, and allow you to escape to an editor to revise the
message or to a shell to run some commands.
(These options
are given in the summary below.)
.Ss Ending a mail processing session
You can end a
    .Nm mail
session with the
    .Ic quit
    .Ic q
command.
Messages which have been examined go to your
    .Ar mbox
file unless they have been deleted, in which case they are discarded.
Unexamined messages go back to the post office (see the
    .Fl f
option above).
.Ss Personal and system wide distribution lists
It is also possible to create personal distribution lists so that,
for instance, you can send mail to
    .Dq Li cohorts
and have it go
to a group of people.
Such lists can be defined by placing a line like
    .Pp
    .Dl alias cohorts bill ozalp jkf mark kridle@ucbcory
    .Pp
in the file
    .Pa .mailrc
in your home directory.
The current list of such aliases can be displayed with the
    .Ic alias
command in
    .Nm mail.
System wide distribution lists can be created by editing
    .Pa /etc/mail/aliases
(see
    .Xr aliases 5 );
these are kept in a different syntax.
In mail you send, personal aliases will be expanded in mail sent
to others so that they will be able to
.Ic reply
to the recipients.
System wide aliases
are not expanded when the mail is sent,
but any reply returned to the machine will have the system wide
alias expanded as all mail goes through an MTA.
.Ss Recipient address specifications
Recipient addresses (any of the
.Dq To,
.Dq Cc
or
.Dq Bcc
header fields) are subject to expansion when the
.Ic expandaddr
option is set.
.Pp
An address may be expanded as follows:
.Bl -bullet -width Ds
.I
An address that starts with a pipe
.Pq Ql |
character is treated as a command to run.
The command immediately following the
.Ql |
is executed with the message as its standard input.
.I
An address that starts with a
.Ql +
character is treated as a folder.
.I
An address that contains a
.Ql /
character but no
.Ql \&! ,
.Ql % ,
or
.Ql @
characters is also treated as a folder.
.I
If none of the above apply, the recipient is treated as
a local or network mail address.
.El
.Pp
If the
.Ic expandaddr
option is not set (the default), no expansion is performed and
the recipient is treated as a local or network mail address.

Sh SUMMARY
(Adapted from the
.Dq Mail Reference Manual .)

.Pp
Each command is typed on a line by itself, and may take arguments
following the command word.
The command need not be typed in its
entirety (em the first command which matches the typed prefix is used.
For commands which take message lists as arguments, if no message
list is given, then the next message forward which satisfies the
command's requirements is used.
If there are no messages forward of
the current message, the search proceeds backwards, and if there are no
good messages at all,
.Nm mail
types
.Dq &No applicable messages
and
aborts the command.
.Bl -tag -width delete
.It Ic -
Print out the preceding message.
If given a numeric
argument
.Ar n ,
goes to the
.Ar n Ns th
previous message and prints it.
.It Ic \&=
Prints the currently selected message number.
.It Ic \&?
Prints a brief summary of commands.
(It Ic \&!
Executes the shell
(see
.Xr sh 1
and
.Xr csh 1 )
command which follows.
.It Ic alias
.Pq Ic a
With no arguments, prints out all currently defined aliases.
With one
argument, prints out that alias.
With more than one argument, creates
a new alias or changes an old one.
The `alternates` command is useful if you have accounts on several machines. It can be used to inform `mail` that the listed addresses are really you. When you `reply` to messages, `mail` will not send a copy of the message to any of the addresses listed on the `alternates` list. If the `alternates` command is given with no argument, the current set of alternate names is displayed.

The `chdir` or `cd` command changes the user's working directory to that specified, if given. If no directory is given, then changes to the user's login directory.

The `copy` command does the same thing that `save` does, except that it does not mark the messages it is used on for deletion when you quit.

The `delete` command takes a list of messages as argument and marks them all as deleted. Deleted messages will not be saved in `mbox`, nor will they be available for most other commands.

The `dp` (also `dt`) command deletes the current message and prints the next message. If there is no next message, `mail` says
.Dq Li "&No more messages."
.IT Ic edit
.Pq Ic e
Takes a list of messages and points the text editor at each one in
turn.
On return from the editor, the message is read back in.
.IT Ic exit
.Pf ( Ic ex
or
.Ic x )
Effects an immediate return to the shell without
modifying the user's system mailbox, his
.Ar mbox
file, or his edit file in
.I f .
.IT Ic file
.Pq Ic fi
The same as
.Ic folder .
.IT Ic folder
.Pq Ic fo
The
.Ic folder
command switches to a new mail file or folder.
With no
arguments, it tells you which file you are currently reading.
If you give it an argument, it will write out changes (such
as deletions) you have made in the current file and read in
the new file.
Some special conventions are recognized for
the name.
# means the previous file, % means your system
mailbox, %user means user's system mailbox, & means
your
.Ar mbox
file, and
+folder means a file in your folder
directory.
.IT Ic folders
List the names of the folders in your folder directory.
.IT Ic from
.Pq Ic f
Takes a list of messages and prints their message headers.
.IT Ic headers
.Pq Ic h
Lists the current windowful of headers.
To view the next or previous group of headers, see the
.Ic z
command.
.it ic help
A synonym for
.it ic \
&?
.it ic hold
.Pf ( ic ho ,
also
.it ic preserve )
Takes a message list and marks each
message therein to be saved in the
user's system mailbox instead of in
.it Ar mbox .
Does not override the
.it ic delete
command.
.it ic ignore
Add the list of header fields named to the
.it Ar ignored list .
Header fields in the ignore list are not printed
on your terminal when you print a message.
This
command is very handy for suppression of certain machine-generated
header fields.
The
.it ic Type
and
.it ic Print
commands can be used to print a message in its entirety, including
ignored fields.
If
.it ic ignore
is executed with no arguments, it lists the current set of
ignored fields.
.it ic inc
Incorporate any new messages that have arrived while mail
is being read.
The new messages are added to the end of the message list,
and the current message is reset to be the first new mail message.
This does not renumber the existing message list, nor
does it cause any changes made so far to be saved.
.it ic list
.Pf ic l
List the valid
.it Nm
commands.
.it ic mail
.Pf ic m
Takes as argument login names and distribution group names and sends
mail to those people.

.mail

Indicate that a list of messages be sent to

.in

in your home directory when you quit.

This is the default

action for messages if you do

.em not

have the

.ic

option set.

.1c

.takes a message list and invokes the pager on that list.

.1c

.takes a message list and invokes the pager on that list.

.1c

(like

.1c +

or CR)

Goes to the next message in sequence and types it.

With an argument list, types the next matching message.

.1c

.A synonym for

.1c

Like

.1c print

but also prints out ignored header fields.

See also

.1c print ,

.1c ignore ,

and

.1c retain .

.1c

.takes a message list and types out each message on the user's terminal.

.1c

.Terminates the session, saving all undeleted, unsaved messages in

.the user's

.in

file in his login directory, preserving all messages marked with

.ic

.or

.ic

or never referenced
in his system mailbox, and removing all other messages from his system mailbox. If new mail has arrived during the session, the message
"You have new mail" is given. If given while editing a mailbox file with the flag, then the edit file is rewritten. A return to the shell is effected, unless the rewrite of edit file fails, in which case the user can escape with the command.

Reply to originator. Does not reply to other recipients of the original message.

Takes a message list and sends mail to the sender and all recipients of the specified message. The default message must not be deleted.

A synonym for

Add the list of header fields named to the

Only the header fields in the retain list are shown on your terminal when you print a message. All other header fields are suppressed.

The and commands can be used to print a message in its entirety. If is executed with no arguments, it lists the current set of retained fields.

Takes a message list and a filename and appends each message in turn to the end of the file. The filename in quotes, followed by the line count and character count is echoed on the user's terminal.
Header fields thus marked are filtered out when saving a message by
.save or when automatically saving to
.mbox.
.save is to save what .ignore is to print and .type.
.Header fields thus marked are the only ones saved with a message when saving by
.save or when automatically saving to
.mbox.
.save overrides .retain
.save is to .print and .type.
With no arguments, prints all variable values.
Otherwise, sets option.
Arguments are of the form .option=value (no space before or after =) or .option.
Quotation marks may be placed around any part of the assignment statement to quote blanks or tabs, i.e.,
.set indentprefix="->".
.shell
Invokes an interactive version of the shell.
.lt lc size
Takes a message list and prints out the size in characters of each
message.
.lt lc source
The
.lt lc source
command reads
commands from a file.
.lt lc top
Takes a message list and prints the top few lines of each.
The number of
lines printed is controlled by the variable
.lt lc toplines
and defaults to five.
.lt lc Type
.lt lc T
Identical to the
.lt lc Print
command.
.lt lc type
.lt lc t
A synonym for
.lt lc print .
.lt lc unalias
Takes a list of names defined by
.lt lc alias
commands and discards the remembered groups of users.
The group names
no longer have any significance.
.lt lc undelete
.lt lc u
Takes a message list and marks each message as not being deleted.
.lt lc unread
.lt lc U
Takes a message list and marks each message as not having been read.
.lt lc unset
Takes a list of option names and discards their remembered values;
the inverse of
.lt lc set .
.lt lc visual
.lt lc v
Takes a message list and invokes the display editor on each message.
.lt lc write
.lt lc w
Similar to
.lt lc save ,
except that
.lt lc only
the message body
(without the header)
is saved.
Extremely useful for such tasks as sending and receiving source
program text over the message system.

\texttt{.It Ic xit}
\texttt{.Pq Ic x}
A synonym for
\texttt{.Ic exit .}
\texttt{.It Ic z}
\texttt{.Nm mail}
presents message headers in windowfuls as described under the
\texttt{.Ic headers}
command.
You can move
\texttt{.Nm mail Ns 's}
attention forward to the next window with the
\texttt{.Ic z}
command.
Also, you can move to the previous window by using
\texttt{.Ic z- .}
\texttt{.El}
\texttt{.Ss Tilde/escapes}
Here is a summary of the tilde escapes,
which are used when composing messages to perform
special functions.
Tilde escapes are only recognized at the beginning
of lines.
The name
\texttt{.Dq tilde escape}
is somewhat of a misnomer since the actual escape character can be set
by the option
\texttt{.Ic escape .}
\texttt{.Pp}
\texttt{.Bl -tag -width Ds -compact}
\texttt{.It Ic ~b Ns Ar name ...}
Add the given names to the list of carbon copy recipients but do not make
the names visible in the Cc: line ("blind" carbon copy).
\texttt{.Pp}
\texttt{.It Ic ~c Ns Ar name ...}
Add the given names to the list of carbon copy recipients.
\texttt{.Pp}
\texttt{.It Ic ~d}
Read the file
\texttt{.Pa dead.letter}
from your home directory into the message.
\texttt{.Pp}
\texttt{.It Ic ~e}
Invoke the text editor on the message collected so far. After the editing session is finished, you may continue appending text to the message.

`.P
`.It ic ^F
Identical to `.ic ^f
except all message headers are included.

`.P
`.It ic ^h
Edit the message header fields by typing each one in turn and allowing the user to append text to the end or modify the field by using the current terminal erase and kill characters.

`.P
`.It ic ^m
Identical to `.ic ^m
except all message headers are included.

`.P
`.It ic ^p
Print out the message collected so far, prefaced by the message header fields.

`.P
`.It ic ^q
Abort the message being sent, copying the message to `.Pa dead.letter
in your home directory if
\texttt{save}
is set.
\texttt{save}
\texttt{~r filename}
\texttt{~< filename}
Read the named file into the message.
\texttt{~s string}
Cause the named string to become the current subject field.
\texttt{~t name ...}
Add the given names to the direct recipient list.
\texttt{~v}
Invoke an alternate editor (defined by the
\texttt{VISUAL} option) on the
message collected so far.
Usually, the alternate editor will be a
screen editor.
After you quit the editor, you may resume appending
text to the end of your message.
\texttt{~w filename}
Write the message onto the named file.
\texttt{~x}
Abort the message being sent.
No message is copied to
\texttt{~/dead.letter}
even if
\texttt{save}
is set.
\texttt{~?}
Prints a brief summary of tilde escapes.
is often used as
.mc command
to rejustify the message.
.ss
.mc ~: Ns Ar mail-command
.mc ~ _ Ns Ar mail-command
Execute the given mail command.
Not all commands, however, are allowed.
.ss
.mc ~~ Ns Ar string
Insert the string of text in the message prefaced by a single ~.
If
you have changed the escape character, then you should double
that character in order to send it.
.ss
.mc ~.
Simulate end of file on input.
.es
.ss Mail options
A number of options can be set in the
-mf .mailrc
file to alter the behavior of
-mf ,
controlled via the
.mc set
and
.mc unset
commands.
Options may be either binary, in which case it is only
significant to see whether they are set or not; or string, in which
case the actual value is of interest.
The binary options include the following:
-mf -tag -width append
-mf Ar append
Causes messages saved in
-mf mbox
to be appended to the end rather than prepended.
This should always be set (perhaps in
-mf /etc/mail.rc ) .
-mf Ar ask , asksub
Causes
-mf mail
to prompt you for the subject of each message you send.
If
you respond with simply a newline, no subject field will be sent.
-mf Ar askbcc
Causes you to be prompted for additional blind carbon copy recipients at the
end of each message.
Responding with a newline indicates your satisfaction with the current list.

`.It Ar askcc`
Causes you to be prompted for additional carbon copy recipients at the end of each message.

Responding with a newline indicates your satisfaction with the current list.

`.It Ar autoinc`
Causes new mail to be automatically incorporated when it arrives.

Setting this is similar to issuing the `.Ic inc` command at each prompt, except that the current message is not reset when new mail arrives.

`.It Ar autoprint`
Causes the `.Ic delete` command to behave like `.Ic dp ;`
thus, after deleting a message, the next one will be typed automatically.

`.It Ar debug`
Setting the binary option `.Ar debug` is the same as specifying `.Fl d`
on the command line and causes `.Nm mail`
to output all sorts of information useful for debugging `.Nm mail`.

`.It Ar dot`
The binary option `.Ar dot` causes `.Nm mail`
to interpret a period alone on a line as the terminator of a message you are sending.

`.It Ar expandaddr`
Causes `.Nm mail`
to expand message recipient addresses, as explained in the section `.Sx Recipient address specifications`.

`.It Ar from`
Causes `.Nm mail`
to use the specified sender address in the `.Dq From;`
field of the message header.
A stripped down version of the address is also used in the message envelope.
If unset, the message will not include an explicit sender address and a default value will be added by the MTA, typically 
.Dq user@host.
This value can be overridden by specifying the
.Fl r
flag on the command line.
.
.Ar hold
This option is used to hold messages in the system mailbox by default.
.
.Ar ignore
Causes interrupt signals from your terminal to be ignored and echoed as @’s.
.
.Ar ignoreeof
An option related to
.
.Ar dot
is
.
.Ar ignoreeof
which makes
.Nm mail
refuse to accept a control-D as the end of a message.
.
.Ar ignoreeof
also applies to
.
.Nm mail
command mode.
.
.Ar keep
Setting this option causes
.
.Nm
to truncate your system mailbox instead of deleting it when it’s empty.
.
.Ar keepsave
Messages saved with the
.
.Ic save
command are not normally saved in
.
.Ar mbox
at quit time.
Use this option to retain those messages.
.
.Ar metoo
Usually, when a group is expanded that contains the sender, the sender is removed from the expansion.
Setting this option causes the sender to be included in the group.
.
.Ar noheader
Setting the option
.
.Ar noheader
is the same as giving the
.
.Fl N
flag on the command line.
.
.Ar nosave
Normally, when you abort a message with two interrupt characters
(usually control-C),
.Nm mail
copies the partial letter to the file
.Pa dead.letter
in your home directory.
Setting the binary option
.Ar nosave
prevents this.
.Ar quiet
Suppresses the printing of the version when first invoked.
.Ar Replyall
Reverses the sense of
.Ic reply
and
.Ic Reply
commands.
.Ar searchheaders
If this option is set, then a message-list specifier in the form
.Dq /x:y
will expand to all messages containing the substring
.Sq y
in the header
field
.Sq x .
The string search is case insensitive.
If
.Sq x
is omitted, it will default to the
.Dq Subject
header field.
The form
.Dq /to:y
is a special case, and will expand
to all messages containing the substring
.Sq y
in the
.Dq To ,
.Dq Cc
or
.Dq Bcc
header fields.
The check for
.Dq to
is case sensitive, so that
.Dq /To:y
can be used to limit the search for
.Sq y
to just the
.Dq To:
field.
.It Ar skipempty
Don't send messages with an empty body.
.It Ar verbose
Setting the option
.It Ar verbose
is the same as using the
.FI v
flag on the command line.
When
.Nm
runs in verbose mode,
the actual delivery of messages is displayed on the user's
terminal.
.El
.Ss Option string values
.BI -tag -width Va
.It Ev EDITOR
Pathname of the text editor to use in the
.Ic edit
command and
.Ic ~e
escape.
If not defined,
.Pa /usr/bin/ex
is used.
.It Ev LISTER
Pathname of the directory lister to use in the
.Ic folders
command.
Default is
.Pa /bin/ls .
.It Ev MBOX
The name of the
.Ar mbox
file.
It can be the name of a folder.
The default is
.Dq Li mbox
in the user's home directory.
.It Ev PAGER
Pathname of the program to use in the
.Ic more
command or when the
.Ar crt
variable is set.
The default paginator
.Xr more 1
is used if this option is not defined.
.Xr Ev SHELL
Pathname of the shell to use in the
.Xr !&
class and the
.Xr ~!&
escape.
A default shell is used if this option is
not defined.
.Xr Ev VISUAL
Pathname of the text editor to use in the
.Xr visual
command and
.Xr ~v
escape.
If not defined,
.Xr /usr/bin/vi
is used.
.Xr Ar crt
The valued option
.Xr crt
is used as a threshold to determine how long a message must
be before
.Xr Ev PAGER
is used to read it.
.Xr Ar escape
If defined, the first character of this option gives the character to
use in the place of ~ to denote escapes.
.Xr Ar folder
The name of the directory to use for storing folders of
messages.
If this name begins with a
.Xr /,
.Xr mail
considers it to be an absolute pathname; otherwise, the
folder directory is found relative to your home directory.
.Xr Ar indentprefix
String used by the
.Xr ~m
tilde escape for indenting messages, in place of the normal tab character
Be sure to quote the value if it contains spaces or tabs.

If defined, gives the pathname of the file used to record all outgoing mail. If not defined, then outgoing mail is not so saved.

Size of window of message headers for.

If defined, gives the number of lines of a message to be printed out with the command; normally, the first five lines are printed.

mail utilizes the

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Pathname to an alternative mail delivery system.

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help files
".It Pa /etc/mail.rc
system initialization file
".El
".Sh EXIT STATUS
".Ex -std mail
".Sh SEE ALSO
".Xr fmt 1 ,
".Xr lockspool 1 ,
".Xr vacation 1 ,
".Xr aliases 5 ,
".Xr mail.local 8 ,
".Xr newaliases 8 ,
".Xr sendmail 8 ,
".Xr smtpd 8
".Sh STANDARDS
The
".Nm mailx
utility is compliant with the
".St -p1003.1-2008
specification.
".Pp
The flags
".Op Fl iNnu
are marked by
".St -p1003.1-2008
as being optional.
".Pp
The flags
".Op Fl eFH
are marked by
".St -p1003.1-2008
as being optional,
and are not supported by this implementation of
".Nm mailx .
".Pp
The flags
".Op Fl bcdEIr
are extensions to the specification.
".Sh HISTORY
A
".Nm mail
command appeared in
".At v3 .
This man page is derived from the
".T "Mail Reference Manual"
originally written by Kurt Shoens.
".Sh BUGS
Usually, `mail` and `mailx` are just links to `Mail`, which can be confusing.

<table>
<thead>
<tr>
<th>Mail Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>t</code> [message list]</td>
<td>type message(s).</td>
</tr>
<tr>
<td><code>more</code> [message list]</td>
<td>read message(s), through the $PAGER.</td>
</tr>
<tr>
<td><code>ngoto</code> and <code>type</code> next message.</td>
<td></td>
</tr>
<tr>
<td><code>e</code> [message list]</td>
<td>edit message(s).</td>
</tr>
<tr>
<td><code>f</code> [message list]</td>
<td>give head lines of messages.</td>
</tr>
<tr>
<td><code>d</code> [message list]</td>
<td>delete message(s).</td>
</tr>
<tr>
<td><code>s</code> [message list] <code>&lt;file&gt;</code></td>
<td>append message(s) to file.</td>
</tr>
<tr>
<td><code>u</code> [message list]</td>
<td>undelete message(s).</td>
</tr>
<tr>
<td><code>R</code> [message list]</td>
<td>reply to message sender(s).</td>
</tr>
<tr>
<td><code>r</code> [message list]</td>
<td>reply to message sender(s) and all recipients.</td>
</tr>
<tr>
<td><code>p</code> [message list]</td>
<td>print message list.</td>
</tr>
<tr>
<td><code>pre</code> [message list]</td>
<td>make messages go back to /var/mail.</td>
</tr>
<tr>
<td><code>m</code> &lt;recipient list&gt;</td>
<td>mail to specific recipient(s).</td>
</tr>
<tr>
<td><code>q</code></td>
<td>quit, saving unresolved messages in mbox.</td>
</tr>
<tr>
<td><code>x</code></td>
<td>quit, do not remove system mailbox.</td>
</tr>
<tr>
<td><code>h</code></td>
<td>print out active message headers.</td>
</tr>
<tr>
<td><code>!</code></td>
<td>shell escape.</td>
</tr>
<tr>
<td>`</td>
<td>` [msglist] command</td>
</tr>
<tr>
<td><code>pi</code> [msglist] command</td>
<td>pipe message(s) to shell command.</td>
</tr>
<tr>
<td><code>cd</code> [directory]</td>
<td>chdir to directory or home if none given</td>
</tr>
<tr>
<td><code>fi</code> &lt;file&gt;</td>
<td>switch to file (%=system inbox, %user=user's system inbox). + searches in your folder directory for the file.</td>
</tr>
<tr>
<td><code>set variable[=value]</code></td>
<td>set Mail variable.</td>
</tr>
</tbody>
</table>

A [message list] consists of integers, ranges of same, :status, /subject, or user names separated by spaces. If omitted, Mail uses the current message. The pipe command doesn't accept user names or subject message list, since that might conflict with the command string.

A <recipient list> consists of recipient addresses or aliases separated by spaces. Aliases are defined in .mailrc in your home directory.

A <file> is a full or relative pathname, +folder, % (system inbox), %user (specified user's system inbox), # (previous file), & (mbox file), or an expression understood by `$SHELL:-/bin/sh` -c 'echo ...'.

The following ~ escapes are defined:
~b name ...Add names to "blind" Cc: list.
~c name ...Add names to Cc: field.
~dRead dead.letter into message.
~eInvoke text editor on partial message.
~F messagesSame as ~f, but includes all headers.
~f messagesRead in messages.
~hEdit the header fields.
~M messagesSame as ~m, but includes all headers.
~m messagesRead in messages, right shifted by a tab.
~pPrint (show) the message buffer.
~qAbort message; optionally save copy to ~/dead.letter.
~r file | ~/read a file into the message buffer.
~s stringSet Subject: field to string.
~t name ...Add names to To: field.
~vInvoke display editor on message.
~w filenameWrite message to file.
~?Print a brief summary of tilde escapes.
~bag execute shell command.
~|commandPipe message through command.
~:command | __commandExecute a Mail command.
~~stringQuote a single tilde.
~.Simulate end of file on input.

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

"OpenBSD: mail1.nr,v 1.4 2004/06/04 00:04:54 jmc Exp $
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" FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
" DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
" OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
" HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
Mail provides a simple and friendly environment for sending and receiving mail. It divides incoming mail into its constituent messages and allows the user to deal with them in any order. In addition, it provides a set of ed-like commands for manipulating messages and sending mail.

Mail offers the user simple editing capabilities to ease the composition of outgoing messages, as well as providing the ability to define and send to names which address groups of users. Finally, Mail is able to send and receive messages across such networks as the ARPANET, UUCP, and Berkeley network.

This document describes how to use the Mail program to send and receive messages. The reader is not assumed to be familiar with other message handling systems, but should be familiar with the \texttt{UNIX} commands. \texttt{UNIX} is a trademark of Bell Laboratories.

shell, the text editor, and some of the common \texttt{UNIX} commands. "The \texttt{UNIX} Programmer's Manual," "An Introduction to Csh," and "Text Editing with Ex and Vi" can be consulted for more information on these topics.

A word of explanation is in order here concerning the name Mail: the original UNIX mail program was known as \texttt{/bin/mail}. The BSD mail program was called \texttt{Mail} to differentiate it from the older mail program. \texttt{/bin/mail} is not included in OpenBSD so there is no ambiguity and the BSD mail program is installed as
is simply a link for backwards compatibility.
To further confuse the issue, a second link was retained for compatibility with SystemV systems, `mailx'.
In this document, we use the original name, `Mail', to refer to any of these.

Here is how messages are handled:
the mail system accepts incoming messages for you from other people and collects them in a file, called your "system mailbox".
When you log in, the system notifies you if there are any messages waiting in your system mailbox. If you are a csh user, you will be notified when new mail arrives if you inform the shell of the location of your mailbox. On OpenBSD, your system mailbox is located in the directory /var/mail in a file with your login name. If your login name is sam, then you can make notify you of new mail by including the following line in your .cshrc file:
.
set mail=/var/mail/sam
.
When you read your mail using Mail, it reads your system mailbox and separates that file into the individual messages that have been sent to you. You can then read, reply to, delete, or save these messages.
Each message is marked with its author and the date they sent it.

DIR=usr/07.mail
SRCS=mail0.nr mail1.nr mail2.nr mail3.nr mail4.nr mail5.nr mail6.nr mail7.nr mail8.nr mail9.nr maila.nr
MACROS=-me

paper.ps: ${SRCS}
$(TBL) ${SRCS} | $(ROFF) > {.TARGET}
paper.txt: ${SRCS}
The Mail command has two distinct usages, according to whether one wants to send or receive mail. Sending mail is simple: to send a message to a user whose login name is, say, root, use the shell command:

```
% Mail root
```

then type your message. When you reach the end of the message, type
an EOT (Control-D) at the beginning of a line, which will cause
Mail to echo \\
(rq and return you to the Shell. When the user you sent mail
to next logs in, he will receive the message:
You have mail.
to alert him to the existence of your message.

If, while you are composing the message
you decide that you do not wish to send it after all, you can
abort the letter with a <Control-C>. Typing a single <Control-C>
causes
Mail to print
(Interrupt -- one more to kill letter)
Typing a second
<Control-C> causes
Mail to save your partial letter on the file
dead.letter in your home directory and abort the letter.
Once you have
sent mail to someone, there is no way to undo the act, so be
careful.

The message your recipient reads will consist of the message you
typed, preceded by a line telling who sent the message (your login name)
and the date and time it
was sent.

If you want to send the same message to several other people, you can list
their login names on the command line.
Thus,

% Mail sam bob john
Tuition fees are due next Friday. Don't forget!!
EOT
%
will send the reminder to sam, bob, and john.

If, when you log in, you see the message,
You have mail.
you can read the mail by typing simply:

% Mail

Mail

will respond by typing its version number and date and then listing
the messages you have waiting. Then it will type a prompt and await
your command. The messages are assigned numbers starting with 1 *- you
refer to the messages with these numbers.

Mail

keeps track of which messages are

new

(have been sent since you last read your mail) and

read

(have been read by you). New messages have an

N

text next to them in the header listing and old, but unread messages have
an

U

text next to them.

Mail

keeps track of new/old and read/unread messages by putting a

header field called

Status

into your messages.

To look at a specific message, use the

type command, which may be abbreviated to simply
t.

For example, if you had the following messages:

N 1 root     Wed Sep 21 09:21  "Tuition fees"
N 2 sam      Tue Sep 20 22:55

you could examine the first message by giving the command:

type 1

which might cause

Mail

to respond with, for example:

Message 1:
From root Wed Sep 21 09:21:45 1978
Subject: Tuition fees
Status: R
Tuition fees are due next Wednesday. Don't forget!!

.)l
Many .i Mail commands that operate on messages take a message number as an argument like the .b type command. For these commands, there is a notion of a current message. When you enter the .i Mail program, the current message is initially the first one. Thus, you can often omit the message number and use, for example, .(l
.t
.)l
to type the current message. As a further shorthand, you can type a message by simply giving its message number. Hence, .(l
1
.)l
would type the first message.

Frequently, it is useful to read the messages in your mailbox in order, one after another. You can read the next message in .i Mail by simply typing a newline. As a special case, you can type a newline as your first command to .i Mail to type the first message.

If, after reading a message, you wish to immediately send a reply, you can do so with the .b reply command. .b Reply , like .b type , takes a message number as an argument. .i Mail then begins a message addressed to the user who sent you the message. You may then type in your letter in reply, followed by a <Control-D> at the beginning of a line, as before. .i Mail will type EOT, then type the ampersand prompt to indicate its readiness to accept another command. In our example, if, after typing the first message, you wished to reply to it, you might give the command:
Mail responds by typing:

```
To: root
Subject: Re: Tuition fees
```

and waiting for you to enter your letter.

You are now in the message collection mode described at the beginning of this section and Mail will gather up your message up to a `<Control-D>`.

Note that it copies the subject header from the original message. This is useful in that correspondence about a particular matter will tend to retain the same subject heading, making it easy to recognize. If there are other header fields in the message, the information found will also be used.

For example, if the letter had a "To:" header listing several recipients, Mail would arrange to send your reply to the same people as well. Similarly, if the original message contained a "Cc:" (carbon copies to) field, Mail would send your reply to those users, too.

Mail is careful, though, not to send the message to you, even if you appear in the "To:" or "Cc:" field, unless you ask to be included explicitly. See section 4 for more details.

After typing in your letter, the dialog with Mail might look like the following:

```
To: root
Subject: Tuition fees
```
Thanks for the reminder

The reply command is especially useful for sustaining extended conversations over the message system, with other users receiving copies of the conversation. The reply command can be abbreviated to .r.

Sometimes you will receive a message that has been sent to several people and wish to reply to the person who sent it. The Reply with a capital .R replies to a message, but sends a copy to the sender only.

If you wish, while reading your mail, to send a message to someone, but not as a reply to one of your messages, you can send the message directly with the mail command, which takes as arguments the names of the recipients you wish to send to. For example, to send a message to frank, you would do:

mail frank

This is to confirm our meeting next Friday at 4.

The mail command can be abbreviated to .m.

Normally, each message you receive is saved in the file mbox in your login directory at the time you leave Mail.
Often, however, you will not want to save a particular message you have received because it is only of passing interest. To avoid saving a message in 
.i mbox 
you can delete it using the 
.b delete 
command. In our example, 
.(l 
delete 1 
).l 
will prevent 
.i Mail 
from saving message 1 (from root) in 
.i mbox . 
In addition to not saving deleted messages, 
.i Mail 
will not let 
you type them, either. The effect is to make the message disappear altogether, along with its number. The 
.b delete 
command can be abbreviated to simply 
.b d . 
.pp 
Many features of 
.i Mail 
can be tailored to your liking with the 
.b set 
command. The 
.b set 
command has two forms, depending on whether you are setting a 
.i binary 
option or a 
.i valued 
option. 
Binary options are either on or off. For example, the 
.q ask 
option informs 
.i Mail 
that each time you send a message, you want it to prompt you for a subject header, to be included in the message. 
To set the 
.q ask 
option, you would type 
.(l 
set ask 
).l
Another useful Mail option is hold. Unless told otherwise, Mail moves the messages from your system mailbox to the file mbox in your home directory when you leave Mail. If you want to keep your letters in the system mailbox instead, you can set the hold option.

Valued options are values which Mail uses to adapt to your tastes. For example, the SHELL option tells Mail which shell you like to use, and is specified by

```
set SHELL=/bin/csh
```

for example. Note that no spaces are allowed in "$SHELL=/bin/csh." A complete list of the Mail options appears in section 5.

Another important valued option is crt. If you use a fast video terminal, you will find that when you print long messages, they fly by too quickly for you to read them. With the crt option, you can make Mail print any message larger than a given number of lines by sending it through a paging program. This program is specified by the valued option BROWSER. If BROWSER is not set, a default paginator is used. For example, most CRT users with 24-line screens should do:

```
set crt=24
```
to paginate messages that will not fit on their screens.
In the default state, `more` (default paginator) prints a screenful of
information, then types ``byte XXX'', where `XXX' represents the number
of bytes paginated.
Type a space to see the next screenful.

Another adaptation to user needs that

provides is that of

An alias is simply a name which stands for one or more
real user names.

sent to an alias is really sent to the list of real users
associated with it. For example, an alias can be defined for the
members of a project, so that you can send mail to the whole project
by sending mail to just a single name. The

defines an alias. Suppose that the users in a project are
named Sam, Sally, Steve, and Susan. To define an alias called
project for them, you would use the

command:

The

command can also be used to provide a convenient name for someone
whose user name is inconvenient. For example, if a user named
"Bob Anderson" had the login name
`anderson," you might want to use:

so that you could send mail to the shorter name,
`bob.'
commands allow you to customize
.i Mail,
they have the drawback that they must be retyped each time you enter
.i Mail.
To make them more convenient to use,
.i Mail
always looks for two files when it is invoked. It first reads
a system wide file
.q /etc/mail.rc,
then a user specific file,
.q .mailrc,
which is found in the user’s home directory.
The system wide file
is maintained by the system administrator and
contains
.b set
commands that are applicable to all users of the system.
The
.q .mailrc
file is usually used by each user to set options the way he likes
and define individual aliases.
For example, my .mailrc file looks like this:
.(l
set ask nosave SHELL=/bin/csh
.)l
As you can see, it is possible to set many options in the
same
.b set
command. The
.q nosave
option is described in section 5.
.p
Mail aliasing is implemented
at the system-wide level
by the mail delivery
system
.i sendmail.
These aliases are stored in the file /etc/mail/aliases and are
accessible to all users of the system.
The lines in /etc/mail/aliases are of
the form:
.(l
alias: name\*<1\*>, name\*<2\*>, name\*<3\*>)
.)l
where
.i alias
is the mailing list name and the
.i name\*<i\*>
are the members of the list. Long lists can be continued onto the next line by starting the next line with a space or tab. Remember that you must execute the command
"
.i newaliases
(as superuser)
after editing /etc/mail/aliases since the delivery system uses an indexed file created by
"
.i newaliases .
"
.pp
We have seen that
"
.i Mail
can be invoked with command line arguments which are people to send the message to, or with no arguments to read mail. Specifying the
"
.rb -f
flag on the command line causes
"
.i Mail
to read messages from a file other than your system mailbox. For example, if you have a collection of messages in
"
.q letters
you can use
"
.i Mail
to read them with:
"
%(Mail -f letters
>)l
You can use all the
"
.i Mail
commands described in this document to examine, modify, or delete messages from your
"
.q letters
file, which will be rewritten when you leave
"
.i Mail
with the
"
.b quit
command described below.
"
.pp
Since mail that you read is saved in the file
"
.i mbox
in your home directory by default, you can read
"
.i mbox
in your home directory by using simply
"
%(Mail -f
>)l
"
Normally, messages that you examine using the `.b type` command are saved in the file `.q mbox` in your home directory if you leave `.i Mail` with the `.b quit` command described below. If you wish to retain a message in your system mailbox you can use the `.b preserve` command to tell `.i Mail` to leave it there. The `.b preserve` command accepts a list of message numbers, just like `.b type` and may be abbreviated to `.b pre`.

Messages in your system mailbox that you do not examine are normally retained in your system mailbox automatically. If you wish to have such a message saved in `.i mbox` without reading it, you may use the `.b mbox` command to have them so saved. For example, `.l mbox 2` in our example would cause the second message (from sam) to be saved in `.i mbox` when the `.b quit` command is executed. `.b Mbox` is also the way to direct messages to your `.i mbox` file if you have set the `.q hold` option described above. `.b Mbox` can be abbreviated to `.b mb`.

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When you have perused all the messages of interest, you can leave
_MAIL
with the
.quit
command, which saves the messages you have typed but not
deleted in the file
.mbox
in your login directory. Deleted messages are discarded irretrievably,
and messages left untouched are preserved in your system mailbox so
that you will see them the next time you type:
(l
% Mail
)l
The
.quit
command can be abbreviated to simply
.quit
pp
If you wish for some reason to leave
_MAIL
quickly without altering either your system mailbox or
.mbox,
you can type the
.exit
command (short for
.exit),
which will immediately return you to the Shell without changing anything.
pp
If, instead, you want to execute a Shell command without leaving
_MAIL,
you
can type the command preceded by an exclamation point, just as in the
text editor. Thus, for instance:
(l
!date
)l
will print the current date without leaving
_MAIL.
pp
Finally, the
.help
command is available to print out a brief summary of the
_MAIL
commands, using only the single character command abbreviations.
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This section describes some additional commands useful for reading your mail, setting options, and handling lists of messages.

Along with `type` and `delete`, described in section 2, there is the `from` command, which prints the message headers associated with the message list passed to it.

The `from` command is particularly useful in conjunction with some of the message list features described below.

A `message list` consists of a list of message numbers, ranges, and names, separated by spaces or tabs. Message numbers may be either decimal numbers, which directly specify messages, or one of the special characters `^`, `.`, or `$ to specify the first relevant, current, or last relevant message, respectively.

` Relevant` here means, for most commands `not deleted`
and
.q "deleted"
for the
.b undelete
command.

A range of messages consists of two message numbers (of the form
described in the previous paragraph) separated by a dash.
Thus, to print the first four messages, use

(l
type 1\-4
)
and to print all the messages from the current message to the last
message, use

(l
type .\-$
)

A
.i name
is a user name. The user names given in the message list are
collected together and each message selected by other means
is checked to make sure it was sent by one of the named users.
If the message consists entirely of user names, then every
message sent by one of those users that is
.i relevant
(in the sense described earlier)
is selected. Thus, to print every message sent to you by
.q root,
do
(l
type root
)
As a shorthand notation, you can specify simply
.q *
to get every
.i relevant
(same sense)
message. Thus,

(l
type *
)
prints all undeleted messages,

(l
delete *
)
deletes all undeleted messages, and

undelete *
undeletes all deleted messages.
You can search for the presence of a word in subject lines with
For example, to print the headers of all messages that contain the
word
PASCAL,
do:
from /pascal
Note that subject searching ignores upper/lower case differences.
This section describes all the
commands available when receiving mail.
The
command goes to the previous message and prints it. The
command may be given a decimal number
as an argument, in which case the
previous message is gone to and printed.
Prints a brief summary of commands.
Used to preface a command to be executed by the shell.
Like
but also print out ignored header fields. See also

\Print, \ignore, and \Retain.
Print can be abbreviated to \P.
Note the capital \P in the name.
Frame a reply to one or more messages.
The reply (or replies if you are using this on multiple messages) will be sent ONLY to the person who sent you the message (respectively, the set of people who sent the messages you are replying to).
You can add people using the `~t`, `~c`, and `~b` tilde escapes. The subject in your reply is formed by prefacing the subject in the original message with `.q "Re:"` unless it already began thus. If the original message included a `.q "reply-to"` header field, the reply will go .i only to the recipient named by `.q "reply-to."` You type in your message using the same conventions available to you through the .b mail command. The .b Reply command is especially useful for replying to messages that were sent to enormous distribution groups when you really just want to send a message to the originator. Use it often. `\BRep\lP` (and `\BRespond\lP`) can be abbreviated to `\BR\lP`. `.ip "\BType\lP"` Identical to the .b Print command. `\BType\lP` can be abbreviated to `\BT\lP`. `.ip "\Bal\lP"` Define a name to stand for a set of other names. This is used when you want to send messages to a certain group of people and want to avoid retyping their names. For example .i (alias project john sue willie kathryn )l creates an alias .i project which expands to the four people John, Sue, Willie, and Kathryn. If no arguments are given, all currently-defined aliases are printed. If one argument is given, that alias is printed (if it exists). `\BAli\lP` can be abbreviated to `\Bal\lP`. `.ip "\Balternates\lP"` If you have accounts on several machines, you may find it convenient to use `/etc/mail/aliases` on all the machines except one to direct your mail to a single account. The .b alternates command is used to inform
that each of these other addresses is really
you.
Alternates
takes a list of user names and remembers that they are all actually you.
When you
reply
to messages that were sent to one of these alternate names,
Mail
will not bother to send a copy of the message to this other address (which
would simply be directed back to you by the alias mechanism).
If
alternates
is given no argument, it lists the current set of alternate names.
Alternates
is usually used in the .mailrc file.
Alternates can be abbreviated to alt.
chdir
takes a single argument, which is taken to be the pathname of
the directory to change to. If no argument is given,
chdir
changes to your home directory.
chdir can be abbreviated to c.
copy
does the same thing that
save
does, except that it does not mark the messages it is used on
for deletion when you quit.
copy can be abbreviated to co.
delete
Deletes a list of messages. Deleted messages can be reclaimed
with the
undelete command.
delete can be abbreviated to d.
dp or dt
These
commands delete the current message and print the next message.
They are useful for quickly reading and disposing of mail.
If there is no next message, Mail says ``No more messages.''
edit
To edit individual messages using the text editor, the
.b edit
command is provided. The
.b edit
command takes a list of messages as described under the
.b type
command and processes each by writing it into the file
Message
.i x
where
.i x
is the message number being edited and executing the text editor on it.
When you have edited the message to your satisfaction, write the message
out and quit, upon which
.i Mail
will read the message back and remove the file.
.b Edit
can be abbreviated to
.b e .
.ip "\fBelse\fP \ 
Marks the end of the then-part of an
.b if
statement and the beginning of the
part to take effect if the condition of the
.b if
statement is false.
.ip "\fBendif\fP \ 
Marks the end of an
.b if
statement.
.ip "\fBexit\fP or \fBxit\fP \ 
Leave
.i Mail
without updating the system mailbox or the file you were reading.
Thus, if you accidentally delete several messages, you can use
.b exit
to avoid scrambling your mailbox.
\fBExit\fP can be abbreviated to \fBex\fP or \fBx\fP.
.ip "\fBfile\fP \ 
The same as
.b folder .
\fBFile\fP can be abbreviated to \fBfi\fP.
.ip "\fBfolders\fP \ 
List the names of the folders in your folder directory.
.ip "\fBfolder\fP \ 
The
.b folder
command switches to a new mail file or folder. With no arguments, it
tells you which file you are currently reading. If you give
it an argument, it will write out changes (such as deletions) you have made in the current file and read the new file. Some special conventions are recognized for the name:

<table>
<thead>
<tr>
<th>Name</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>_</td>
<td>Previous file read</td>
</tr>
<tr>
<td>%</td>
<td>Your system mailbox</td>
</tr>
<tr>
<td>%name\fName\fP's system mailbox</td>
<td></td>
</tr>
<tr>
<td>&amp;</td>
<td>Your ~/mbox file</td>
</tr>
<tr>
<td>+folderA file in your folder directory</td>
<td></td>
</tr>
<tr>
<td>TE</td>
<td>A file in your folder directory</td>
</tr>
</tbody>
</table>

-b

-BFolder\fP can be abbreviated to BFo\fP.

-ip "BFfrom\fP"

The .b from command takes a list of messages and prints out the header lines for each one; hence

-b from joe

is the easy way to display all the message headers from BFjoe\fP.

-BFrom\fP can be abbreviated to BF\fP.

-ip "BFheaders\fP"

When you start up .i Mail to read your mail, it lists the message headers that you have. These headers tell you who each message is from, when they were received, how many lines and characters each message is, and the .q "Subject:" header field of each message, if present. In addition, .i Mail tags the message header of each message that has been the object of the .b preserve command with a .q P. Messages that have been .b saved or .b written are flagged with a .q *. 

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Finally, .b deleted messages are not printed at all. If you wish to reprint the current list of message headers, you can do so with the .b headers command. The .b headers command (and thus the initial header listing) only lists the first so many message headers.

The number of headers listed depends on the speed of your terminal.

.i Mail maintains a notion of the current .q window into your messages for the purposes of printing headers. Use the .b z command to move forward a window, and .b z- to move back a window. You can move .i Mail's notion of the current window directly to a particular message by using, for example,

```
(l headers 40 )l
to move .i Mail's attention to the messages around message 40. 
```

```
'BHeaders' can be abbreviated to 'h'.
```

Print a brief and usually out of date help message about the commands in .i Mail.

The .i man page for .i mail is usually more up-to-date than either the help message or this manual. It is also a synonym for lBh. 

```
l'Bhold' can be abbreviated to 'h'.
```

Arrange to hold a list of messages in the system mailbox, instead of moving them to the file .i mbox in your home directory. If you set the binary option .i hold ,

---

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this will happen by default. It does not override the \fBdelete\fP command. 
\fBHold\fP can be abbreviated to \fBho\fP.
\ip "\fBif\fP \fP"

Commands in your .q .mailrc file can be executed conditionally depending on whether you are sending or receiving mail with the .b if command. For example, you can do:
\l
if receive
\fIcommands\fP...
endif
\l
An .b else form is also available:
\l
if send
\fIcommands\fP...
else
\fIcommands\fP...
endif
\l
Note that the only allowed conditions are .b receive and .b send .
\ip "\fBinignore\fP \fP"

.b N.B.:
.i Ignore has been superseded by .i retain .
.br
Add the list of header fields named to the .i "ignore list" .

Header fields in the ignore list are not printed on your terminal when you print a message. This allows you to suppress printing of certain machine-generated header fields, such as .i Via which are not usually of interest. The .b Type and .b Print commands can be used to print a message in its entirety, including ignored fields.
is executed with no arguments, it lists the current set of ignored fields.

Incorporate any new messages that have arrived while mail is being read. The
new messages are added to the end of the message list, and the current message is reset to be the first new mail message. This does not renumber the existing message list, nor does it cause any changes made so far to be saved.

List the valid Mail commands.

.. Define a list of local names for this host. This command is useful when the host is known by more than one name. Names in the list may be qualified be the domain of the host. The first name on the local list is the distinguished name of the host. The names on the local list are used by Mail to decide which addresses are local to the host. For example:

.. From this list we see that "fred@ucbarpa.BERKELEY.ARPA", "harold@arpa.BERKELEY", and "larry@r" are all addresses of users on the local host.

The local command is usually not used by general users since it is designed for local configuration; it is usually found in the file /usr/lib/Mail.rc.

Send mail to one or more people. If you have the ask option set, Mail will prompt you for a subject to your message. Then you can type in your message, using tilde escapes as described in section 4 to edit, print, or modify your message. To signal your satisfaction with the message and send it, type <Control-D> at the
beginning of a line, or a . alone on a line if you set the option
.i dot .
To abort the message, type two interrupt characters (Control-C
by default) in a row or use the
.i b ~q
or
.i b ~x
escapes.
The \fBmail\fP command can be abbreviated to \fBm\fP.
.ip "\fBmbox\fP \ "
Indicate that a list of messages be sent to
.i mbox
in your home directory when you quit. This is the default
action for messages if you do not
.i hold
option set.
.ip "\fBmore\fP \ "
Takes a message list and invokes the pager on that list.
.ip "\fBnext\fP or \fB+\fP \ "
The
.i b next
command goes to the next message and types it. If given a message list,
.i b next
goes to the first such message and types it. Thus,
.(l
.next root
).l
goes to the next message sent by
.q root
and types it. The
.i b next
command can be abbreviated to simply a newline, which means that one
can go to and type a message by simply giving its message number or
one of the magic characters
.q "^a"
.q ".:"
or
.q "$".
Thus,
.(l
\&.
).l
prints the current message and
.(l
4
).l
prints message 4, as described previously.

\texttt{\textbackslash Bnext} can be abbreviated to \texttt{\textbackslash Bh}.

\texttt{.ip "\textbackslash Bpreserve\textbackslash P\textbackslash "}

Same as \texttt{.b hold}.

Cause a list of messages to be held in your system mailbox when you quit.

\texttt{\textbackslash Bpreserve} can be abbreviated to \texttt{\textbackslash Bpr}.

\texttt{.ip "\textbackslash Bprint\textbackslash P\textbackslash "}

Print the specified messages. If the \texttt{.b crt} variable is set, messages longer than the number of lines it indicates are paged through the command specified by the \texttt{\textbackslash BPAGER\textbackslash P} variable.

The \texttt{\textbackslash Bprint} command can be abbreviated to \texttt{\textbackslash Bp}.

\texttt{.ip "\textbackslash Bquit\textbackslash P\textbackslash "}

Terminates the session, saving all undeleted, unsaved and unwritten messages in the user's \texttt{\textbackslash Imbox\textbackslash P} file in their login directory (messages marked as having been read), preserving all messages marked with \texttt{\textbackslash Bhold\textbackslash P} or \texttt{\textbackslash Bpreserve\textbackslash P} or never referenced in their system mailbox.

Any messages that were deleted, saved, written, or saved to \texttt{\textbackslash Imbox\textbackslash P} are removed from their system mailbox.

If new mail has arrived during the session, the message “You have new mail” is given. If given while editing a mailbox file with the \texttt{\textbackslash Bv} flag, then the edit file is rewritten.

A return to the Shell is effected, unless the rewrite of edit file fails, in which case the user can escape with the \texttt{\textbackslash Bexit\textbackslash P} command.

\texttt{\textbackslash Bquit\textbackslash P} can be abbreviated to \texttt{\textbackslash Bq}.

\texttt{.ip "\textbackslash Breply\textbackslash P or \textbackslash Brespond\textbackslash P\textbackslash "}

Frame a reply to a single message.

The reply will be sent to the person who sent you the message (to which you are replying), plus all the people who received the original message, except you. You can add people using the \texttt{\textbackslash B~t}, \texttt{\textbackslash B~c}, and \texttt{\textbackslash B~b} tilde escapes. The subject in your reply is formed by prefacing the subject in the original message with

\texttt{.q "Re:"}

unless it already began thus.

If the original message included a \texttt{.q "reply-to"} header field, the reply will go \texttt{i only}
to the recipient named by

\texttt{.q "reply-to."}

You type in your message using the same conventions available to you through the \texttt{.b mail} command.

The \texttt{\textbackslash Breply\textbackslash P} (and \texttt{\textbackslash Brespond\textbackslash P}) command can be abbreviated to \texttt{\textbackslash Br\textbackslash P}. 

---

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Add the list of header fields named to the ` retained list. Only the header fields in the retain list are shown on your terminal when you print a message. All other header fields are suppressed.

The `Type` and `Print` commands can be used to print a message in its entirety. If `retain` is executed with no arguments, it lists the current set of retained fields.

It is often useful to be able to save messages on related topics in a file. The `save` command gives you the ability to do this. The `save` command takes as an argument a list of message numbers, followed by the name of the file in which to save the messages. The messages are appended to the named file, thus allowing one to keep several messages in the file, stored in the order they were put there. The filename in quotes, followed by the line count and character count is echoed on the user's terminal. An example of the `save` command relative to our running example is:

```
ls 1 2 tuitionmail
```

Saved messages are not automatically saved in `mbox` at quit time, nor are they selected by the `next` command described above, unless explicitly specified. `Save` can be abbreviated to `S`.

Header fields thus marked are filtered out when saving a message by `Save` or when automatically saving to `mbox`. `Saveignore` is to `Save` what `ignore` is to `Print` and `Type`.

Header fields thus marked are the only ones saved with a message
when saving by \fBsave\fP or when automatically saving to \fImbox\fP.
\fBsaveretain\fP overrides \fBsaveignore\fP.
\fp "\fBset\fP \ "
Set an option or give an option a value. Used to customize
\i Mail .
Section 5.3 contains a list of the options. Options can be
\i binary ,
in which case they are
\i on
or
\i off ,
or
\i valued .
To set a binary option
\i option
\i on ,
do
\ip
\i set option
\ip
To give the valued option
\i option
the value
\i value ,
do
\ip
\i set option=value
\ip
There must be no space before or after the "\fBshell\fP can be abbreviated to \fBsh\fP.
\fp "\fBshell\fP \ 
The
\b shell
command allows you to
give an interactive shell and allows you to type commands to it.
When you leave the shell, you will return to
\i Mail .
The shell used is a default assumed by
\i Mail ;
you can override this default by setting the valued option
\i SHELL, e.g:
\l
set SHELL=/bin/csh
\l
\BShell\P can be abbreviated to \Bsh\P.
\i \Bsize \P\ \\
Takes a message list and prints out the size in characters of each message.
\i \Bsource \P\ \\
The \b source \e command reads \i mail \q .mailrc \i file and you need to re-read it.
\BSource\P can be abbreviated to \Bso\P.
\i \Btop \P\ \\
The \b top \e command takes a message list and prints the first five lines of each addressed message.
If you wish, you can change the number of lines that \b top \e prints out by setting the \q toplines.\e option
\i \ "toplines."
On a CRT terminal,
\l
set toplines=10
\l
might be preferred.
\BTop\P can be abbreviated to \Bto\P.
\i \Btype \P\ \\
Same as \Bprint\P.
\i \Bundelete \P\ \\
Takes a message list and discards the remembered groups of users.
The \Btype \P command can be abbreviated to \Bt\P.
\i \Bunalias \P\ \\
Takes a list of names defined by \Balias \P commands and discards the remembered groups of users.
The group names no longer have any significance.
\i \ "unalias\P"
\i \Bunread \P\ \\
Takes a message list and marks each message as \unot\P being deleted.
\BUnundelete\P can be abbreviated to \Bun\P.
\i \Bunread\P \ \\
Takes a message list and marks each message as \not\P.
\i \BUnread\P can be abbreviated to \BU\P.
Takes a list of option names and discards their remembered values; the inverse of `unset`.

It is often useful to be able to invoke one of two editors, based on the type of terminal one is using. To invoke a display oriented editor, you can use the `visual` command. The operation of the `visual` command is otherwise identical to that of the `edit` command.

Both the `edit` and `visual` commands assume some default text editors. The default for `EDITOR` is `/usr/bin/ex`. The default for `VISUAL` is `/usr/bin/vi`. These default editors can be overridden by the valued options `EDITOR` and `VISUAL` for the standard and screen editors. You might want to do:

```
set EDITOR=/bin/ed VISUAL=/usr/bin/mg
```

`Visual` can be abbreviated to `v`.

The `save` command always writes the entire message, including the headers, into the file. If you want to write just the message itself, you can use the `write` command. The `write` command has the same syntax as the `save` command.
command, and can be abbreviated to simply
.b w .
Thus, we could write the second message by doing:
.b l
w 2 file.c
.l
As suggested by this example, the
.b write
command is useful for such tasks as sending and receiving
source program text over the message system.
The filename in quotes, followed by additional file information,
is echoed on the user's terminal.
.ip "\fBz\fP\ "
.i Mail
presents message headers in windowfuls as described under
the
.b headers
command.
You can move
.i Mail's
attention forward to the next window by giving the
.b l
z+
.l
command. Analogously, you can move to the previous window with:
.b l
z-
.l
.sh 2 "Custom options"
.pp
Throughout this manual, we have seen examples of binary and valued options.
This section describes each of the options in alphabetical order, including
some that you have not seen yet.
To avoid confusion, please note that the options are either
all lower case letters or all upper case letters. When I start a sentence
such as:
.q "Ask"
causes
.i Mail
to prompt you for a subject header,
I am only capitalizing
.q ask
as a courtesy to English.
.ip "\fBEDITOR\fP\ "
The valued option
.q EDITOR
defines the pathname of the text editor to be used in the
.b edit
command and ~e escape.
If not defined,
.i /usr/bin/ex
is used.
.ip "fBLISTER\fP\ "
Pathname of the directory lister to use in the \fBfolders\fP command.
Default is \fI/bin/ls\fP.
.ip "fBMBOX\fP\ "
The name of the \fI/mbox\fP file.
It can be the name of a folder.
The default is \"mbox\" in the user's home directory.
.ip "fBPAGER\fP\ "
Pathname of the program to use for paginating output when it exceeds \fI/crt\fP lines.
A default paginator is used if this option is not defined.
.ip "fBSHELL\fP\ "
The valued option
.q SHELL
gives the path name of your shell. This shell is used for the \b!
command and ~! escape. In addition, this shell expands file names with shell metacharacters like * and ? in them.
.ip "fBVISUAL\fP\ "
The valued option
.q VISUAL
defines the pathname of the screen editor to be used in the \b visual
command and ~v escape.
If not defined,
.i /usr/bin/vi
is used.
.ip "fBappend\fP\ "
The \q append
option is binary and causes messages saved in
.i mbox
to be appended to the end rather than prepended.
Normally, \fIMail\fP will put messages in \fI/mbox\fP in the same order that the system puts messages in your system mailbox.
By setting
.q append,
you are requesting that
.i mbox
be appended to regardless. It is in any event quicker to append.
.ip "fBask\fP\ "
.q "Ask"
is a binary option which
\textit{Mail}
to prompt you for the subject of each message you send.
If you respond with simply a newline, no subject field will be sent.
.\texttt{\textbackslash rfBaskbc\textbackslash rfP\textbackslash }\n\texttt{.q Askbcc}
is a binary option which
causes you to be prompted for additional blind carbon copy recipients at the
end of each message. Responding with a newline shows your
satisfaction with the current list.
.\texttt{\textbackslash rfBaskcc\textbackslash rfP\textbackslash }\n\texttt{.q Askcc}
is a binary option which
causes you to be prompted for additional carbon copy recipients at the
end of each message. Responding with a newline shows your
satisfaction with the current list.
.\texttt{\textbackslash rfBautoinc\textbackslash rfP\textbackslash }\nCauses new mail to be automatically incorporated when it arrives.
Setting this is similar to issuing the \texttt{\textbackslash fBinc\textbackslash fP\textbackslash } command at each prompt,
extcept that the current message is not reset when new mail arrives.
.\texttt{\textbackslash rfBautoprint\textbackslash rfP\textbackslash }\n\texttt{.q Autoprint}
is a binary option which
causes the
\texttt{\textbackslash b delete command to behave like}\n\texttt{\textbackslash b dp}\n\%-- thus, after deleting a message, the next one will be typed
automatically. This is useful when quickly scanning and deleting
messages in your mailbox.
.\texttt{\textbackslash fBcr\textbackslash rfP\textbackslash }\nThe valued option
\texttt{\textbackslash I crt}
is used as a threshold to determine how long a message must
be before
\texttt{\textbackslash b PAGER}
is used to read it.
.\texttt{\textbackslash rfBdebug\textbackslash rfP\textbackslash }\nThe binary option
\texttt{\textbackslash q debug}
causes debugging information to be displayed. Use of this
option is the same as using the \texttt{\textbackslash fB-d\textbackslash fP\textbackslash } command line flag.
.\texttt{\textbackslash rfBdot\textbackslash rfP\textbackslash }\n\texttt{.q Dot}
is a binary option which, if set, causes
\textit{Mail}
to interpret a period alone on a line as the terminator
of the message you are sending.

To allow you to change the escape character used when sending mail, you can set the valued option

Only the first character of the

option is used, and it must be doubled if it is to appear as the first character of a line of your message. If you change your escape character, then ~ loses all its special meaning, and need no longer be doubled at the beginning of a line.

The name of the directory to use for storing folders of messages.

If this name begins with a `/`

considers it to be an absolute pathname; otherwise, the folder directory is found relative to your home directory.

The binary option

causes messages that have been read but not manually dealt with to be held in the system mailbox. This prevents such messages from being automatically swept into your `mbox` file.

The binary option

causes `<Control-C>` characters from your terminal to be ignored and echoed as `@`'s while you are sending mail. `<Control-C>` characters retain their original meaning in command mode.

Setting the

option is equivalent to supplying the

flag on the command line as described in section 6.

An option related to

is

which makes

refuse to accept a `<Control-D>` as the end of a message.

also applies to

command mode.
String used by the `\fB~m\fP` tilde escape for indenting messages, in place of the normal tab character (`^I`). Be sure to quote the value if it contains spaces or tabs.

The `\fBkeep\fP` option causes `\i Mail\i` to truncate your system mailbox instead of deleting it when it is empty. This is useful if you elect to protect your mailbox, which you would do with the shell command:

```bash
chmod 600 /var/mail/yourname
```

where `\i yourname\i` is your login name. If you do not do this, anyone can probably read your mail, although people usually don't.

The `\fBkeepsave\fP` option causes `\i Mail\i` to retain all saved messages, set the `\q keepsave` option.

When you `\b save\b` a message, `\i Mail\i` usually discards it when you `\b quit\b`. To retain all saved messages, set the `\q keepsave` option.

When sending mail to an alias, `\i Mail\i` makes sure that if you are included in the alias, that mail will not be sent to you. This is useful if a single alias is being used by all members of the group. If however, you wish to receive a copy of all the messages you send to the alias, you can set the binary option `\q metoo`.

The binary option `\q noheader` suppresses the printing of the version and headers when `\i Mail\i` is first invoked. Setting this option is the same as using `\b \-N` on the command line.

Normally, when you abort a message with two <Control-C>'s,
.i Mail
copies the partial letter to the file
.q dead.letter
in your home directory. Setting the binary option
.q nosave
prevents this.
.ip "\fBReplyall\fP\ "
Reverses the sense of
.i reply
and
.i Reply
commands.
.ip "\fBquiet\fP\ 
The binary option
.q quiet
suppresses the printing of the version when
.i Mail
is first invoked,
as well as printing the for example
.q "\Message 4;"
from the
.b type
command.
.ip "\fBrecord\fP\ 
If you love to keep records, then the
valued option
.q record
can be set to the name of a file to save your outgoing mail.
Each new message you send is appended to the end of the file.
.ip "\fBscreen\fP\ 
When
.i Mail
initially prints the message headers, it determines the number to
print by looking at the speed of your terminal. The faster your
terminal, the more it prints.
The valued option
.q screen
overrides this calculation and
specifies how many message headers you want printed.
This number is also used for scrolling with the
.b z
command.
.ip "\fBsearchheaders\fP\ 
If this option is set, then a message-list specifier in the form
`\x:y` will expand to all messages containing the substring
`\y` in the header field `\x`.
The string search is case insensitive.
If `\x` is omitted, it will default to the `\Subject` header field.
The form ```/to:y''` is a special case, and will expand to all messages containing the substring `y` in the ```To'', ```Cc'', or ```Bcc'' header fields.

The check for ```to''` is case sensitive, so that ```/To:y''` can be used to limit the search for `y` to just the ```To:'' field.

To use an alternate mail delivery system, set the option to the full pathname of the program to use. Note: this is not for everyone! Most people should use the default delivery system.

The valued option `q toplines` defines the number of lines that the command will print out instead of the default five lines.

The binary option "verbose" causes `Mail` to invoke sendmail with the flag, which causes it to go into verbose mode and announce expansion of aliases, etc. Setting the "verbose" option is equivalent to invoking `Mail` with the flag as described in section 6.

set append dot save asksub ignore Received Message-Id Resent-Message-Id Status Mail-From Return-Path Via
"SOpenBSD: mail8.nr,v 1.5 2004/06/04 00:04:54 jmc Exp $"
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This section contains the definitions of a few phrases peculiar to Mail.

- **alias**: An alternative name for a person or list of people.
- **flag**: An option, given on the command line of Mail, prefaced with a `-`. For example, `-f` is a flag.
- **header field**: At the beginning of a message, a line which contains information that is part of the structure of the message. Popular header fields include `to`, `cc`, and `subject`.
- **mail**: A collection of messages. Often used in the phrase, `Have you read your mail?`
- **mailbox**: The place where your mail is stored, typically in the directory `/var/mail`.
- **message**: A single letter from someone, initially stored in your mailbox.
- **message list**: A string used in Mail command mode to describe a sequence of messages.
A piece of special purpose information used to tailor Mail
to your taste.
Options are specified with the
.set command.
"OpenBSD: mail0.nr,v 1.4 2004/06/04 00:04:54 jmc Exp $
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" SUCH DAMAGE.
" @(#)mail0.nr 8.1 (Berkeley) 6/8/93
" .if n \{
  .po 5n
  .ll 70n
  .]
 .eh 'USD:7-%' Mail Reference Manual'
 .oh 'Mail Reference Manual' USD:7-%'
 .if n \(
 .nr fs .5v
 .}'.he 'Mail Reference Manual' \n (mo \n (dy \n (yr %'
 .tp
 .sp 1.0i
MAIL REFERENCE MANUAL

Kurt Shoens

Revised by

Craig Leres and

Mark Andrews

Version 5.5

OpenBSD: mail6.nr,v 1.6 2006/03/04 16:18:06 miod Exp $
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@(#)mail6.nr 8.2 (Berkeley) 5/16/94

This section describes command line options

\-b list
Send blind carbon copies to list.

\-c list
Send carbon copies to list of users.
List should be a comma separated list of names.

\-f file
Show the messages in file instead of your system mailbox. If file is omitted, Mail reads mbox in your home directory.

\-I
Forces mail to run in interactive mode, even when input is not a terminal.
In particular, the special \&B~\&P command character, used when sending mail, is only available interactively.

\-i
Ignore tty interrupt signals.
This is particularly useful when using mail on noisy phone lines.

\-N
Suppress the initial printing of headers.

\-n
Inhibit reading of /etc/mail.rc upon startup.
"-s string"
Used for sending mail.
String
is used as the subject of the message being composed. If

contains blanks, you must surround it with quote marks.

```
-\u name
```

Read

mail instead of your own. Unwitting others often neglect to protect
their mailboxes, but discretion is advised. Essentially,

```
-\u user
```

is a shorthand way of doing

```
-\f /var/mail/user
```

Use the

```
-\v
```

flag when invoking sendmail. This feature may also be enabled
by setting the option "verbose".

```
The following command line flags are also recognized, but are
intended for use by programs invoking

Mail

and not for people.

```
\d
```

Turn on debugging information. Not of general interest.

```
-\T file
```

Arrange to print on

the contents of the

article-id

fields of all messages that were either read or deleted.

```
\T
```

is for the

readnews

program and should NOT be used for reading your mail.
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@(#)mail9.nr 8.2 (Berkeley) 5/16/94

"Summary of commands, options, and escapes"

This section gives a quick summary of the Mail commands, binary and valued options, and tilde escapes.

The following table describes the commands:

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>+</td>
<td>Same as next</td>
</tr>
<tr>
<td>-</td>
<td>Back up to previous message</td>
</tr>
<tr>
<td>?</td>
<td>Print brief summary of Mail commands</td>
</tr>
<tr>
<td>!</td>
<td>Single command escape to shell</td>
</tr>
<tr>
<td>Print</td>
<td>Type message with ignored fields</td>
</tr>
<tr>
<td>Reply</td>
<td>Reply to author of message only</td>
</tr>
<tr>
<td>Respond</td>
<td>Same as Reply</td>
</tr>
<tr>
<td>Type</td>
<td>Type message with ignored fields</td>
</tr>
<tr>
<td>alias</td>
<td>Define an alias as a set of user names</td>
</tr>
<tr>
<td>alternates</td>
<td>List other names you are known by</td>
</tr>
<tr>
<td>chdir</td>
<td>Change working directory, home by default</td>
</tr>
<tr>
<td>copy</td>
<td>Copy a message to a file or folder</td>
</tr>
<tr>
<td>delete</td>
<td>Delete a list of messages</td>
</tr>
<tr>
<td>dp</td>
<td>Same as dt</td>
</tr>
<tr>
<td>dt</td>
<td>Delete current message, type next message</td>
</tr>
<tr>
<td>edit</td>
<td>Edit a list of messages</td>
</tr>
<tr>
<td>else</td>
<td>Start of else part of conditional; see if</td>
</tr>
<tr>
<td>endif</td>
<td>End of conditional statement; see if</td>
</tr>
</tbody>
</table>

Open Source Used in CNAAP Standard (Ubuntu + Docker Engine) Virtual Machine 1.0 7360
exit Leave mail without changing anything
file Interrogate/change current mail file
folder Same as `file`
folders List the folders in your folder directory
from List headers of a list of messages
headers List current window of messages
help Same as `?`
hold Same as `preserve`
if Conditional execution of `mail` commands
ignore Set/examine list of ignored header fields
inc Incorporate new messages
list List valid `mail` commands
mail Send mail to specified names
mbox Arrange to save a list of messages in `mbox`
more Invoke pager on message list
next Go to next message and type it
preserve Arrange to leave list of messages in system mailbox
print Print messages
quit Leave `mail`; update system mailbox, `mbox` as appropriate
reply Compose a reply to a message
respond Same as `reply`
retain Supersedes `ignore`
save Append messages, headers included, on a file
saveignore List of headers to ignore when using the `save` command
saveretain List of headers to retain when using the `save` command
set Set binary or valued options
shell Invoke an interactive shell
size Prints out size of message list
source Read `mail` commands from a file
top Print first so many (5 by default) lines of list of messages
type Same as `print`
unalias Remove alias
undelete Undelete list of messages
unread Marks list of messages as not been read
unset Undo the operation of a `set` command
visual Invoke visual editor on a list of messages
write Append messages to a file, don't include headers
xit Same as `exit`
zd Scroll to next/previous screenful of headers
.
.
.
The following table describes the options. Each option is shown as being either a binary or valued option.
.
Open Source Used In CNAAP Standard (Ubuntu + docker Engine) Virtual Machine 1.0 7361
Option | Type | Description
-- | -- | --
EDITOR | valued | Pathname of editor for ~e and \fBedit\fP
LISTER | valued | Pathname of directory lister
MBOX | valued | Pathname of the \fImbox\fP file
PAGER | valued | Pathname of pager for \fBPrint\fP, \fBprint\fP, \fBType\fP and \fBtype\fP
SHELL | valued | Pathname of shell for \fBshell\fP, ~!, and \fB\fP
VISUAL | valued | Screen editor for ~v, \fBvisual\fP
append | binary | Always append messages to end of \fImbox\fP
ask | Prompt user for Subject: field when sending
askbcc | Prompt user for additional BCc's at end of message
askcc | Prompt user for additional Cc's at end of message
auto | Automatically incorporate new mail
autoreprint | Print next message after \fBdelete\fP
crt | valued | Minimum number of lines before using \fBPAGER\fP
debug | binary | Print out debugging information
dot | valued | Directory to store folders in
hold | binary | Hold messages in system mailbox by default
ignore | binary | Ignore <Control-C> while sending mail
ignoreeof | binary | Don't terminate letters/command input with \fB^D\fP
indentprefix | valued | String used for indenting messages
keep | binary | Don't unlink system mailbox when empty
keepsave | binary | Don't delete \fBsave\fPd messages by default
metoo | binary | Include sending user in aliases
noheader | binary | Suppress initial printing of version and headers
nosave | binary | Don't save partial letter in \fIdead.letter\fP
Replyall | binary | Reverses the sense of the \fB[Rr]eply\fP commands
quiet | binary | Suppress printing of \fIMail\fP version/message numbers
record | valued | File to save all outgoing mail in
screen | valued | Size of window of message headers for \fBz\fP, etc.
searchheaders | binary | Search string for message headers
sendmail | valued | Choose alternate mail delivery system
toplines | valued | Number of lines to print in \fBtop\fP
verbose | binary | Invoke sendmail with the \fB-v\fP flag

The following table summarizes the tilde escapes available while sending mail.

<table>
<thead>
<tr>
<th>Escape</th>
<th>Arguments</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>.TE</td>
<td>\fP</td>
<td></td>
</tr>
<tr>
<td>.)b</td>
<td>\fP</td>
<td></td>
</tr>
<tr>
<td>.(b</td>
<td>\fP</td>
<td></td>
</tr>
<tr>
<td>.PP</td>
<td>\fP</td>
<td></td>
</tr>
</tbody>
</table>

Open Source Used In CNAAP Standard (Ubuntu + docker Engine) Virtual Machine 1.0 7362
The following table shows the command line flags that Mail accepts:

<table>
<thead>
<tr>
<th>Flag</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>_b list</td>
<td>Send blind carbon copies to list.</td>
</tr>
<tr>
<td>_c list</td>
<td>Send carbon copies to list.</td>
</tr>
<tr>
<td>_d</td>
<td>Turn on debugging.</td>
</tr>
<tr>
<td>_f name</td>
<td>Show messages in name or ~/mbox.</td>
</tr>
<tr>
<td>_I</td>
<td>Force Mail to run in interactive mode.</td>
</tr>
<tr>
<td>_i</td>
<td>Ignore tty interrupt signals.</td>
</tr>
<tr>
<td>_N</td>
<td>Suppress the initial printing of headers.</td>
</tr>
<tr>
<td>_n</td>
<td>Inhibit reading of /etc/mail.rc.</td>
</tr>
<tr>
<td>_s subject</td>
<td>Use subject as subject in outgoing mail.</td>
</tr>
<tr>
<td>_T file</td>
<td>Article-id's of read/deleted messages to file.</td>
</tr>
<tr>
<td>_u user</td>
<td>Read user's mail instead of your own.</td>
</tr>
<tr>
<td>_v</td>
<td>Invoke sendmail with the -v flag.</td>
</tr>
</tbody>
</table>
Notes:

-b -d
and
-b -T
are not for human use.

"OpenBSD: mail4.nr,v 1.6 2008/11/03 18:20:45 jmc Exp $"

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"@
"mail4.nr8.2 (Berkeley) 5/16/94

"sh 1 "More about sending mail"
sh 2 "Tilde escapes"

While typing in a message to be sent to others, it is often
useful to be able to invoke the text editor on the partial message,
print the message, execute a shell command, or do some other
auxiliary function.

Mail
provides these capabilities through
"tilde escapes", which consist of a tilde (~) at the beginning of a line, followed by a single character which indicates the function to be performed. For example, to print the text of the message so far, use:
\ (~p)
which will print a line of dashes, the recipients of your message, and the text of the message so far.
Since Mail requires two consecutive <Control-C>’s to abort a letter, you can use a single <Control-C> to abort the output of ~p or any other ~ escape without killing your letter.

If you are dissatisfied with the message as it stands, you can invoke the text editor on it using the escape
\ (~e)
which causes the message to be copied into a temporary file and an instance of the editor to be spawned. After modifying the message to your satisfaction, write it out and quit the editor.
Mail will respond by typing
\ (continue)
after which you may continue typing text which will be appended to your message, or type <Control-D> to end the message.
A standard text editor is provided by Mail. You can override this default by setting the valued option EDITOR to something else. For example, you might prefer:
\ (set EDITOR=/bin/ed)

Many systems offer a screen editor as an alternative to the standard text editor, such as the vi editor from UC Berkeley, or an emacs-like editor.
To use the screen, or
editor, on your current message, you can use the escape,

\~v

\~v works like \~e, except that the screen editor is invoked instead.
A default screen editor is defined by

\ Mail

If it does not suit you, you can set the valued option

\VISUAL
to the path name of a different editor.

It is often useful to be able to include the contents of some
file in your message; the escape

\r filename

is provided for this purpose, and causes the named file to be appended
to your current message.

\ Mail

complains if the file doesn’t exist
or can’t be read. If the read is successful, the number of lines and
characters appended to your message is printed, after which you may continue
appending text. The filename may contain shell metacharacters like * and ?
which are expanded according to the conventions of your shell.

As a special case of \r, the escape

\d

reads in the file

\ dead.letter

in your home directory. This is often useful since

\ Mail

copies the text
of your message there when you abort a message with <Control-C>.

To save the current text of your message on a file you may use the

\w filename

escape.

\ Mail

will print out the number of lines and characters written
to the file, after which you may continue appending text to your message.
Shell metacharacters may be used in the filename, as in \r and are expanded
with the conventions of your shell.
If you are sending mail from within .i Mail's command mode you can read a message sent to you into the message you are constructing with the escape:

```
~m 4
```

which will read message 4 into the current message, shifted right by one tab stop. You can name any non-deleted message, or list of messages. Messages can also be forwarded without shifting by a tab stop with ~f. This is the usual way to forward a message.

If, in the process of composing a message, you decide to add additional people to the list of message recipients, you can do so with the escape

```
~t name1 name2 ...
```

You may name as few or many additional recipients as you wish. Note that the users originally on the recipient list will still receive the message; you cannot remove someone from the recipient list with ~t.

If you wish, you can associate a subject with your message by using the escape

```
~s Arbitrary string of text
```

which replaces any previous subject with

```
"Arbitrary string of text."
```
The subject, if given, is sent near the top of the message prefixed with

```
"Subject:
```
You can see what the message will look like by using ~p.

For political reasons, one occasionally prefers to list certain people as recipients of carbon copies of a message rather than direct recipients. The escape

```
~c name1 name2 ...
```

adds the named people to the

```
"Cc:
```
list, similar to ~t. Again, you can execute ~p to see what the message will look like.

The escape
~b name1 name2 ...

)l

adds the named people to the
.q "Cc:"
list, but does not make the names visible in the
.q "Cc:"
line ("blind" carbon copy).
.pp

The recipients of the message together constitute the
.q "To:"
field, the subject the
.q "Subject:"
field, and the carbon copies the
.q "Cc:"
field. If you wish to edit these in ways impossible with the ~t, ~s, ~c
and ~b escapes, you can use the escape
.(l
~h
)l

which prints
.q "To:"
followed by the current list of recipients and leaves the cursor
(or printhead) at the end of the line. If you type in ordinary
characters, they are appended to the end of the current list of
recipients. You can also use your erase character to erase back into
the list of recipients, or your kill character to erase them altogether.
Thus, for example, if your erase and kill characters are the standard
(on printing terminals) <Control-H> and <Control-U> keys,
.(l
~h
To: root kurt^H^H^H^Hbill
)l

would change the initial recipients
.q "root kurt"
to
.q "root bill."
When you type a newline,
.i Mail
advances to the
.q "Subject:"
field, where the same rules apply. Another newline brings you to the
.q "Cc:"
field, which may be edited in the same fashion. Another newline
brings you to the
.q "Bcc:"
("blind" carbon copy) field, which follows the same rules as the "Cc:"
field. Another newline
leaves you appending text to the end of your message. You can use
~p to print the current text of the header fields and the body
of the message.

To effect a temporary escape to the shell, the escape
~!command
is used, which executes
and returns you to mailing mode without altering the text of
your message. If you wish, instead, to filter the body of your
message through a shell command, then you can use
~|command
which pipes your message through the command and uses the output
as the new text of your message. If the command produces no output,
assumes that something is amiss and retains the old version
of your message. A frequently-used filter is the command
fmt,
designed to format outgoing mail.

To effect a temporary escape to
command mode instead, you can use the
~:IMail commandP
escape. This is especially useful for retyping the message you are
replying to, using, for example:
~:t
It is also useful for setting options and modifying aliases.

If you wish abort the current message, you can use the escape
~q
This will terminate the current message and return you to the
shell (or \Bmail\fP if you were using the \Bmail\fP command). If the \Bsave\fP option is set, the message will be copied
to the file
dead.letter
in your home directory.
If you wish to abort the current message, without saving any copy of it whatsoever, even if the \texttt{save} option is set, you can use the escape
\texttt{x}
\texttt{?}
\texttt{pp}
If you wish (for some reason) to send a message that contains a line beginning with a tilde, you must double it. Thus, for example,
\texttt{~This line begins with a tilde.}
\texttt{~This line begins with a tilde.}
\texttt{pp}
Finally, the escape
\texttt{?}
\texttt{pp}
prints out a brief summary of the available tilde escapes.
\texttt{pp}
On some terminals (particularly ones with no lower case) tilde's are difficult to type.
Mail allows you to change the escape character with the \texttt{escape} option. For example, I set
\texttt{set escape=}
\texttt{]
and use a right bracket instead of a tilde. If I ever need to send a line beginning with right bracket, I double it, just as for \texttt{~}. Changing the escape character removes the special meaning of \texttt{~}.
Network access
This section describes how to send mail to people on other machines. Recall that sending to a plain login name sends mail to that person on your machine. If your machine is directly (or sometimes, even, indirectly) connected to the Internet, you can send messages to people on the Internet using a name of the form
\texttt{name@host.domain}
where
is the login name of the person you're trying to reach,

.i host

is the name of the machine on the Internet,

and

.i domain

is the higher-level scope within which the hostname is known, e.g. EDU (for educational institutions), COM (for commercial entities), GOV (for governmental agencies), ARPA for many other things, BITNET or CSNET for those networks.

.pp

If your recipient logs in on a machine connected to yours by

UUCP (the Bell Laboratories supplied network that communicates

over telephone lines), sending mail can be a bit more complicated.

You must know the list of machines through which your message must

travel to arrive at his site. So, if his machine is directly connected
to yours, you can send mail to him using the syntax:

.!(

host!name

.)!

where, again,

.i host

is the name of the machine and

.i name

is the login name.

If your message must go through an intermediary machine first, you

must use the syntax:

.!(

intermediary!host!name

.)!

and so on. It is actually a feature of UUCP that the map of all

the systems in the network is not known anywhere (except where people

decide to write it down for convenience). Talk to your system administrator

about good ways to get places; the

.i uname

command will tell you systems whose names are recognized, but not which

ones are frequently called or well-connected.

.pp

When you use the

.i reply

command to respond to a letter, there is a problem of figuring out the

names of the users in the

.i "To:"

and

.i "Cc:"

lists

.i “relative to the current machine”.

If the original letter was sent to you by someone on the local machine,
then this problem does not exist, but if the message came from a remote
machine, the problem must be dealt with.
...Mail
uses a heuristic to build the correct name for each user relative
to the local machine. So, when you
reply
to remote mail, the names in the
"To:"
and
"Cc:"
lists may change somewhat.

As described previously, you can send mail to either user names or
alias names. It is also possible to send messages directly to files or to
programs, using special conventions. If a recipient name has a
`/' in it or begins with a `+', it is assumed to be the
path name of a file into which
to send the message. If the file already exists, the message is
appended to the end of the file. If you want to name a file in
your current directory (i.e., one for which a `/' would not usually
be needed) you can precede the name with `./'

So, to send mail to the file
memo
in the current directory, you can give the command:
```
% Mail ./memo
```
If the name begins with a `+,' it is expanded into the full path name
of the folder name in your folder directory.
This ability to send mail to files can be used for a variety of
purposes, such as maintaining a journal and keeping a record of
mail sent to a certain group of users. The second example can be
done automatically by including the full pathname of the record
file in the
alias command for the group. Using our previous
alias example, you might give the command:
```
alias project sam sally steve susan /usr/project/mail_record
```
Then, all mail sent to "project" would be saved on the file
/mail_record
as well as being sent to the members of the project. This file
can be examined using
```
Mail \-f
```
It is sometimes useful to send mail directly to a program, for
example one might write a project billboard program and want to access it using `mail`. To send messages to the billboard program, one can send mail to the special name `|billboard` for example.

`mail` treats recipient names that begin with a `|` as a program to send the mail to. An `alias` can be set up to reference a `|` prefaced name if desired.

Caveats:
the shell treats `|` specially, so it must be quoted on the command line. Also, the `|` program must be presented as a single argument to mail. The safest course is to surround the entire name with double quotes. This also applies to usage in the `alias` command. For example, if we wanted to alias `rmsgs` to `rmsgs -s` we would need to say:

```
alias rmsgs "| rmsgs -s"
```

1.649 python-defaults 3.8.2-0ubuntu2

1.649.1 Available under license:
This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

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.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(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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==========================================

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1.653 libbblockdev-part2 2.23-2ubuntu3

1.653.1 Available under license:

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

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#### 1.656.1 Available under license:

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It is split out from the main package to isolate the dependency on the Gnome and X11 libraries.

It was packaged for Debian by Philip Hands <phil@hands.com>.

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```
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 **
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* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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It was downloaded from here:
ftp://ftp.fu-berlin.de/unix/security/openssh/openssh-2.3.0p1.tar.gz

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1.661 backoff 4.1.2
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1.662 mime-support 3.64ubuntu1
1.662.1 Available under license:
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Source: git://anonscm.debian.org/collab-maint/mime-support.git

Files: *
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Comment: Author: Nathaniel S. Borenstein

1.663 cron 3.0pl1 136ubuntu1
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Open Source Used In CNAAP Standard (Ubuntu + docker Engine) Virtual Machine 1.0 7482
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/manl, 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):
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/INSTALL
No license file was found, but licenses were detected in source scan.

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 # * 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
 # */
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/tabs 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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* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/pathnames.h
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$Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $

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#
# find_dot_no_parens.sh
#
# Look for function names after /^[BIR]/ that aren't
# followed by "()".
#
# This script is designed to help with "by hand" tidy-ups after
# the automated changes made by add_paren_for_own_funcs.sh.
#
# The first argument to this script names a manual page directory where
# 'man2' and 'man3' subdirectories can be found. The pages names in
# these directories are used to generate a series of regular expressions
# that can be used to search the manual page files that are named in
# the remaining command-line arguments.
#
# Example usage:
#
#    cd man-pages-x.yy
#    sh find_dots_no_parens.sh . man?/*.? > matches.log
#
# """"""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""`
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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That's all there is to it!

1.681 python3-pymacaroons 0.13.0-3 all

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

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

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

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
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1.683 patch 2.7.6 6

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This is Debian's prepackaged version of patch, Larry Wall's program that allows you to apply diffs to a file automagically.

The current maintainer for this package is Laszlo Boszormenyi (GCS) <gcs@debian.org>.

Previous maintainers were Bill Mitchell <mitchell@mdd.comm.mot.com>, Darren Stalder <torin@daft.com>, Adrian Bunk <bunk@fs.tum.de>, Michael Fedrowitz <michaelf@debian.org> and Christoph Berg <myon@debian.org>.


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* Mikolaj Walczak (asynchronous DHCPv6 client)
* Chris Koch (tons of improvements in DHCPv4 and DHCPv6 internals and interface)
* Akshay Navale, Brandon Bennett and Chris Gorham (ZTPv6 and ZTPv4 packages)
* Anatole Denis (tons of fixes and new options)

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1.691 man-db 2.9.1 1

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    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
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Go support for Protocol Buffers - Google's data interchange format

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goproperties - properties file decoder for Go

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

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

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

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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
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permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

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

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

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Upstream-Contact: Peter Jones <pjones@redhat.com>
Source: https://github.com/vathpela/efibootmgr

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1.707 click 7.0

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* /opt/cola/permits/1183964583_1627499467.81/0/pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/click/_termui_impl.py
* /opt/cola/permits/1183964583_1627499467.81/0/pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/click/__init__.py

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.. _contrib:

=============
click-contrib
==============

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different
than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

Found in path(s):
* /opt/cola/permits/1183964583_1627499467.81/0/pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/docs/contrib.rst

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=======

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

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import io
import re
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("click/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r"__version__ = '(.*)'", f.read()).group(1)

setup(
    name="Click",
    version=version,
    url="https://palletsprojects.com/p/click/",
    project_urls={
        "Documentation": "https://click.palletsprojects.com/",
        "Code": "https://github.com/pallets/click",
        "Issue tracker": "https://github.com/pallets/click/issues",
    },
)
license="BSD",
author="Armin Ronacher",
author_email="armin.ronacher@active-4.com",
maintainer="Pallets Team",
maintainer_email="contact@palletsprojects.com",
description="Composable command line interface toolkit",
long_description=readme,
packages=['"click"'],
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*",
classifiers=[
    "Development Status :: 5 - Production/Stable",
    "Intended Audience :: Developers",
    "License :: OSI Approved :: BSD License",
    "Operating System :: OS Independent",
    "Programming Language :: Python",
    "Programming Language :: Python :: 2",
    "Programming Language :: Python :: 2.7",
    "Programming Language :: Python :: 3",
    "Programming Language :: Python :: 3.4",
    "Programming Language :: Python :: 3.5",
    "Programming Language :: Python :: 3.6",
    "Programming Language :: Python :: 3.7",
],
)

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# binary only, patch it back to the system, and then use a wrapper

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\$ click

==========
Click is a Python package for creating beautiful command line interfaces in a composable way with as little code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun while also preventing any frustration caused by the inability to implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing
---------

Install and update using `pip`

.. code-block:: text

$ pip install click

Click supports Python 3.4 and newer, Python 2.7, and PyPy.


A Simple Example
----------------

What does it look like? Here is an example of a simple Click program:

.. code-block:: python

   import click

   @click.command()
   @click.option("--count", default=1, help="Number of greetings.")
   @click.option("--name", prompt="Your name",
                  help="The person to greet.")
   def hello(count, name):
       """Simple program that greets NAME for a total of COUNT times.""
       for _ in range(count):
           click.echo("Hello, %s!") % name)
if __name__ == '__main__':
    hello()

And what it looks like when run:

```
$ python hello.py --count=3
Your name: Click
Hello, Click!
Hello, Click!
Hello, Click!
```

Donate
-----

The Pallets organization develops and supports Click and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`_.

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Links
-----

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* Test status:
  * Linux, Mac: https://travis-ci.org/pallets/click
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----

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1.709 python3-incremental 16.10.1-3.2
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1.710 github.com/containerd/nri 0.1.0

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Upstream-Contact: Kenneth Reitz <me@kennethreitz.com>
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Upstream-Name: go
Source: https://github.com/json-iterator/go

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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

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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).

*/
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: zlib
Upstream-Contact: zlib@gzip.org
Source: http://zlib.net/
Comment: This is the pre-packaged Debian Linux version of the zlib compression library. It was packaged by Michael Alan Dorman <mdorman@debian.org> from sources originally retrieved from ftp.uu.net in the directory /pub/archiving/zip/zlib as the file zlib-1.0.4.tar.gz.

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

Files-Excluded:
contrib/ada
contrib/amd64
contrib/asm686
contrib/blast
contrib/delphi
contrib/dotzlib
contrib/gcc_gvmat64
contrib/inback9
contrib/inflate86
contrib/iostream
contrib/iostream2
contrib/iostream3
contrib/masmx64
contrib/masmx86
contrib/pascal
contrib/puff
contrib/testzlib
contrib/untgz
contrib/vstudio
doc/rfc1950.txt
doc/rfc1951.txt
doc/rfc1952.txt

Files: *
Copyright: 1995-2013 Jean-loup Gailly and Mark Adler
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Files: amiga/Makefile.pup
Copyright: 1998 by Andreas R. Kleinert
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Files: contrib/minizip/*
Copyright: 1998-2010 Gilles Vollant
2007-2008 Even Rouault
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1.729 libgcc-9-dev 9.4.0-1ubuntu1~20.04.1

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

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Version 2.1, February 1999

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derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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```bash
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```

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@c man end

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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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SIGNATURE OF TY COON, 1 April 1990
Ty Coon, President of Vice
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This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

- ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
- svn://gcc.gnu.org/svn/gcc/ (for prereleases)
- ftp://sourceware.org/pub/newlib/ (for newlib)
- git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-9 source package is taken from the SVN gcc-9-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-9</td>
<td>libgnat-9</td>
<td>gnat-9-doc</td>
</tr>
<tr>
<td>BRIG</td>
<td>gccbrig-9</td>
<td>libhsail-rt0</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>gcc-9</td>
<td>gcc-9-doc</td>
<td></td>
</tr>
<tr>
<td>C++</td>
<td>g++-9</td>
<td>libstdc++6</td>
<td>libstdc++6-9-doc</td>
</tr>
<tr>
<td>D</td>
<td>gdc-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-9</td>
<td>libgfortran3</td>
<td>gfortran-9-doc</td>
</tr>
<tr>
<td>Go</td>
<td>gccgo-9</td>
<td>libgo0</td>
<td></td>
</tr>
<tr>
<td>Objective C</td>
<td>gobjc-9</td>
<td>libobjc2</td>
<td></td>
</tr>
<tr>
<td>Objective C++</td>
<td>gobjc++-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modula-2</td>
<td>gm2-9</td>
<td>libgm2</td>
<td></td>
</tr>
</tbody>
</table>

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td>libstdc++6-9-dbg</td>
<td>libstdc++6-9-pic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>libphobos-9-dev</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional packages include:

- All languages: libgcc1, libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-9-base        Base files common to all compilers
gcc-9-soft-float  Software floating point (ARM only)
gcc-9-source      The sources with patches

Ada:
libgnatvsn-dev, libgnatvsn9  GNAT version library

C:
cpp-9, cpp-9-doc      GNU C Preprocessor
libssp0-dev, libssp0    GCC stack smashing protection library
libquadmath0          Math routines for the __float128 type
fixincludes          Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1GCC OpenMP (GOMP) support library
libitm1-dev, libitm1GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++.6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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gcc/emults.c, gcc/gbl-ctors.h, gcc/gecov-\{-io.h, gcc/libgcov.c,
gcc/tsystem.h, gcc/typeclass.h).
- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-9 Ada support library and libgnatvsn library.
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- libvtv

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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Written by Tobias Burnus <burnus@net-b.de>

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* Cygnus Support, drepper@cygnus.com.

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D:
gdc-9                         GNU D Compiler
libphobos-9-dev               D standard runtime library

The D source package is made up of the following components.

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The Zlib data compression library:
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The Phobos standard runtime library:
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1.736 e2fsprogs 1.45.5 2ubuntu1

1.736.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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#
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSDLIB_LIB)

$(BSDLIB_LIB): $(OBJ)
(cd pic; ld -Bshareable -o $(BSDLIB_LIB) $(LDFLAGS_SHLIB) $(OBJ))
$(MV) pic/$(BSDLIB_LIB).
$(RM) -f ../$BSDLIB_LIB
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \\
 `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSDLIB_LIB) $(BSDLIB_LIB))

install-shlibs install:: $(BSDLIB_LIB)
@echo "$INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSDLIB_LIB)"
@$(INSTALL_PROGRAM) $(BSDLIB_LIB) \n $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSDLIB_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSDLIB_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSDLIB_LIB)
$(RM) -f ../$(BSDLIB_LIB)

This package was added to the e2fsprogs debian source package by
Theodore Ts' o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -165226,6 +165226,6 @@
   /*
   * Get tests for table entry.
   * 
-  * @param             rle:        block of information
+  * @param rle:        block of information
   * @param entry:      the table entry
   * @param count:      the maximum number of tables to test
   * @param count_found: the number of tests found
   */

--- tdbsa.org/tdb.c
+++ tdbsa/tdb.c
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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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Theodore Ts'o
23-June-2007

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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1.8.2

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**1.747 pyasn1-modules 0.2.1**

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1.748 go-multierror 1.0.0

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1.752 python3-systemd 234-3build2

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1.759 libalgorithm-merge-perl 0.08-3

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# # For testing:
#
sub main::diag {
    warn join("", @_), "n":
}

print join(" ", merge(
    #print Data::Dumper -> Dump([ 
    #   merge( 
    #     #[qw(a b c d h i j)], # ancestor 
    #     #[qw(a b c d f h i j)], # left
    #     #[qw(a b c e g )], # right
    [qw(0 1 2 3 4 7 9 b)],
    [qw(0 6 8 a b)],
    [qw(0 1 2 3 5 8 a b)],
    ##
    {
      CONFLICT => sub ($$) { 
        q{<}, @{$_[0]}, q{|}, @{$_[1]}, q{>}
      ),
    },
), "n";
    )); "n";
    #print join(" ", @{
    #   [qw(0 1 @ < 3 | # > 6)]
    # }); "n";

    1;
```
NAME
Algorithm::Merge - Three-way merge and diff

SYNOPSIS
use Algorithm::Merge qw(merge diff3 traverse_sequences3);

@merged = merge(@ancestor, @a, @b, {
    CONFLICT => sub { }
});

@merged = merge(@ancestor, @a, @b, {
    CONFLICT => sub { }
    }, $key_generation_function);

$merged = merge(@ancestor, @a, @b, {
    CONFLICT => sub { }
    });

$merged = merge(@ancestor, @a, @b, {
    CONFLICT => sub { }
    }, $key_generation_function);

@diff   = diff3(@ancestor, @a, @b);

@diff   = diff3(@ancestor, @a, @b, $key_generation_function);

$diff   = diff3(@ancestor, @a, @b);

$diff   = diff3(@ancestor, @a, @b, $key_generation_function);

@trav   = traverse_sequences3(@ancestor, @a, @b, {
    # callbacks
    });

@trav   = traverse_sequences3(@ancestor, @a, @b, {
    # callbacks
    }, $key_generation_function);

$trav   = traverse_sequences3(@ancestor, @a, @b, {
# callbacks

$trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
    }, $key_generation_function);

=head1 USAGE

This module complements L<Algorithm::Diff> by providing three-way merge and diff functions.

In this documentation, the first list to C<diff3>, C<merge>, and C<traverse_sequences3> is called the `original' list. The second list is the `left' list. The third list is the `right' list.

The optional key generation arguments are the same as in L<Algorithm::Diff>. See L<Algorithm::Diff> for more information.

=head2 diff3

Given references to three lists of items, C<diff3> performs a three-way difference.

This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

       original: a b c e f h i k
       left: a b d e f g i j k
       right: a b c d e h i j k

       merge: a b d e g i j k

we have the following result from diff3:

    [ 'u', 'a',   'a',   'a' ],
    [ 'u', 'b',   'b',   'b' ],
    [ 'l', 'c',   undef, 'c' ],
    [ 'o', undef, 'd',   'd' ],
    [ 'u', 'e',   'e',   'e' ],
    [...]
The first element in each row is the array with the difference:

- c - conflict (no two are the same)
- l - left is different
- o - original is different
- r - right is different
- u - unchanged

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are C<@ancestor>, C<a>, and C<b>, respectively).

=head2 merge

Given references to three lists of items, C<merge> performs a three-way merge. The C<merge> function uses the C<diff3> function to do most of the work.

The only callback currently used is C<CONFLICT> which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default C<CONFLICT> callback returns the following:

```
q{<!-- ------ START CONFLICT ------ -->},
(@left),
q{<!-- ---------------------------- -->},
(@right),
q{<!-- ------  END  CONFLICT ------ -->},
```

=head2 traverse_sequences3

This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

=over 4
=item NO_CHANGE

This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

=item A_DIFF

This is called if the first sequence is different than the other two sequences at the current position.
This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item B_DIFF

This is called if the second sequence is different than the other two sequences at the current position.
This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item C_DIFF

This is called if the third sequence is different than the other two sequences at the current position.
This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the
third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item CONFLICT

This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

=back 4

=head1 BUGS

Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.

L<Algorithm::Diff>’s implementation of C<traverse_sequences> may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, C<traverse_sequences3> will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an `Algorithm::Diff::diff is not symmetric for second and third sequences...’ warning. It will try to handle this, but there may be some cases where it can’t.

=head1 SEE ALSO

L<Algorithm::Diff>.

=head1 AUTHOR

James G. Smith, <jsmith@cpan.org>

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NAME
  Algorithm::Merge - Three-way merge and diff

SYNOPSIS
  use Algorithm::Merge qw(merge diff3 traverse_sequences3);

  @merged = merge(@ancestor, @a, @b, {
    CONFLICT => sub {   }
  });

  @merged = merge(@ancestor, @a, @b, {
    CONFLICT => sub {   }
  }, $key_generation_function);

  $merged = merge(@ancestor, @a, @b, {
    CONFLICT => sub {   }
  });

  $merged = merge(@ancestor, @a, @b, {
    CONFLICT => sub {   }
  }, $key_generation_function);

  @diff   = diff3(@ancestor, @a, @b);

  @diff   = diff3(@ancestor, @a, @b, $key_generation_function);

  $diff   = diff3(@ancestor, @a, @b);

  $diff   = diff3(@ancestor, @a, @b, $key_generation_function);

  @trav   = traverse_sequences3(@ancestor, @a, @b, {
    # callbacks
  });

  @trav   = traverse_sequences3(@ancestor, @a, @b, {
    # callbacks
  }, $key_generation_function);

  $trav   = traverse_sequences3(@ancestor, @a, @b, {
    # callbacks
  });

  $trav   = traverse_sequences3(@ancestor, @a, @b, {

# callbacks
}
Skey_generation_function);

USAGE
This module complements Algorithm::Diff by providing three-way merge and
diff functions.

In this documentation, the first list to "diff3", "merge", and
"traverse_sequences3" is called the `original' list. The second list is
the `left' list. The third list is the `right' list.

The optional key generation arguments are the same as in
Algorithm::Diff. See Algorithm::Diff for more information.

diff3
Given references to three lists of items, "diff3" performs a three-way
difference.

This function returns an array of operations describing how the left and
right lists differ from the original list. In scalar context, this
function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

original: a b c e f h i k
  left: a b d e f g i j k
  right: a b c d e h i j k

merge: a b d e g i j k

we have the following result from diff3:

[ 'u', 'a', 'a', 'a' ],
[ 'u', 'b', 'b', 'b' ],
[ 'l', 'c', undef, 'c' ],
[ 'o', undef, 'd', 'd' ],
[ 'u', 'e', 'e', 'e' ],
[ 'r', 'f', 'f', undef ],
[ 'o', 'h', 'g', 'h' ],
[ 'u', 'i', 'i', 'i' ],
[ 'o', undef, 'j', 'j' ],
[ 'u', 'k', 'k', 'k' ]

The first element in each row is the array with the difference:

c - conflict (no two are the same)
l - left is different
O - original is different
r - right is different
u - unchanged

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are @ancestor, @a, and @b, respectively).

merge
Given references to three lists of items, "merge" performs a three-way merge. The "merge" function uses the "diff3" function to do most of the work.

The only callback currently used is "CONFLICT" which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default "CONFLICT" callback returns the following:

q{<-- ------ START CONFLICT ------ -->},
(@left),
q{<-- ---------------------------- -->},
(@right),
q{<-- ------ END CONFLICT ------ -->},

traverse_sequences3
This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

NO_CHANGE
This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

A_DIFF
This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.
If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

B_DIFF
This is called if the second sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

C_DIFF
This is called if the third sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

CONFLICT
This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.
BUGS

Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.

Algorithm::Diff's implementation of "traverse_sequences" may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, "traverse_sequences3" will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an `Algorithm::Diff::diff is not symmetric for second and third sequences...' warning. It will try to handle this, but there may be some cases where it can't.

SEE ALSO

Algorithm::Diff.

AUTHOR

James G. Smith, <jsmith@cpan.org>

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1.760 github.com/cyphar/filepath-securejoin

0.2.2

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Alek Storm <alek.storm@gmail.com>
  * Slicing support for repeated scalar fields for the Python API.
Oleg Smolsky <oleg.smolsky@gmail.com>
  * MS Visual Studio error format option.
  * Detect unordered_map in stl_hash.m4.
Brian Olson <brianolson@google.com>
  * gzip/zlib I/O support.
Michael Poole <mdpoole@troilus.org>
  * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
  * Added generation of field number constants.
Wink Saville <wink@google.com>
  * Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
  * Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
  * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
Scott Stafford <scott.stafford@gmail.com>
  * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
Alexander Melnikov <alm@sibmail.ru>
  * HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
  * Detect whether zlib is new enough in configure script.
  * Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
  * Optimize Java serialization code when writing a small message to a stream.
  * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
  * Clean up some Java warnings.
  * Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead.
Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)
/*/ Written in 2016 by David Blackman and Sebastiano Vigna (vigna@acm.org)

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MySQL Router 8.0

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MySQL 8.0

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dtoa.c

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Google SMP patch

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jemalloc
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Kerberos5

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g Utilities.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
and the initial implementation of incremental propagation, including
the following new or changed files:

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

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MEMCACHED CONTRIBUTORS

This file contains a list of people who have contributed code and effort to the memcached project. If you don't see your name mentioned send email to the memcached mailing list so you can be immortalized.

Also see the ChangeLog for even more people who have helped over the years by submitting fixes, patches and reporting bugs.

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# This file contains a list of people who've made non-trivial
# contribution to the Google C++ Testing Framework project. People
# who commit code to the project are encouraged to add their names
# here. Please keep the list sorted by first names.

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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
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If distribution of object code is made by offering access to copy
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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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**1.777 libatm 2.5.1-4**

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Camellia in libhcrypto

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

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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kdc/announce.c

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@heading Richard Outerbridge

DES core in libhcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

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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.

(GEnie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

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Windows support

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lib/hcrypto/test_dh.c

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Open Source Used In CNAAP Standard (Ubuntu + docker Engine) Virtual Machine 1.0

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iconv (Charset Conversion Library) v2.0

(28) Artem Bityuckiy (--enable-newlib-iconv)

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@end enumerate

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The current gcc-9 source package is taken from the SVN gcc-9-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

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<thead>
<tr>
<th>Language</th>
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<th>Library package</th>
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<td>gnat-9-doc</td>
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<td>Objective C++</td>
<td>gobjc++-9</td>
<td>libobjc2</td>
<td></td>
</tr>
<tr>
<td>Modula-2</td>
<td>gm2-9</td>
<td>libgm</td>
<td></td>
</tr>
</tbody>
</table>

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td>libstdc++6-9-dbg libstdc++6-9-pic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>libphobos-9-dev</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-9-base Base files common to all compilers
gcc-9-soft-float Software floating point (ARM only)
gcc-9-source The sources with patches

Ada:
libgnatvsn-dev, libgnatvsn9 GNAT version library

C:
cpp-9, cpp-9-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes                     Fix non-ANSI header files

C, C++, and Fortran 95:
libgomp1-dev, libgomp1GCC OpenMP (GOMP) support library
libitm1-dev, libitm1GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libitm
- libssp
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gdc-9 GNU D Compiler
libphobos-9-dev D standard runtime library

The D source package is made up of the following components.

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=======

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1.785 libfile-fcntllock-perl 0.22-3build4

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* /opt/ws_local/PERMITS_SQL/1078668518_1597401461.2/0/libfile-fcntllock-perl-0-22-orig-1-tar-gz/File-FcntlLock-0.22/META.yml

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File::FcntlLock

File::FcntlLock is a module to do file locking in an object oriented fashion using the fcntl(2) system call. This allows locks on parts of a file as well as on the whole file and overcomes some known problems with flock(2), on which Perl's flock() function is based per default.

Since version 0.15 there three slightly different ways this can be done
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library build creation of the package is called from the Perl code to
invoke the fcntl(2) system function. This method can also be used by
employing the File::FcntlLock::XS module (which basically an alias for
File::FcntlLock). Two further methods instead use calls of the Perl
fcntl() function. In both cases at some time a C program must be run
to determine the binary layout of the C flock struct used by fcntl()
for locking. For the one package, File::FcntlLock::Pure, this is done
while making the package. For the other, File::FcntlLock::Inline, this
happens each time the package is loaded (e.g. with the 'use' function).
Of course, for this to work a C compiler must be installed on the
system!

Unfortunately, there seem to be a few 32-bit systems where the off_t
type, used in the flock struct, is a 64-bit integer but which use a
Perl version that hasn't 64-bit support enabled. On these systems the
'q' format for Perl's pack() and unpack() function isn't available and
thus a "pure Perl" approach is thus not possible. On such systems the
File::FcntlLock::Pure and File::FcntlLock::Inline modules won't get
installed.

PORTABILITY

To use the module the system must support the fcntl() system call
which probably will restrict its use to POSIX compliant systems.

INSTALLATION

To install this module type the following:

perl Makefile.PL
make
make test
make install

DEPENDENCIES

The module requires the following other modules:

POSIX, Errno, Carp, Exporter, DynaLoader

To install the module(s) a C compiler must be available and the
system must support the use of shared libraries (or DLLs). For
File::FcntlFlock::Inline the C compiler must also be available when
the module is used. The installation of the File::FcntlLock::Pure
and File::FcntlLock::Inline modules require that the Perl pack() and unpack() function support the 'q' format if the off_t type on the system is 64-bit wide.

ACKNOWLEDGMENTS

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd (which seems to have only very rudimentary support for locking with fcntl(2), at least at that time). Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to a XS-only approach which hopefully will make the module more useful under certain circumstances.

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=head1 NAME

File::FcntlLock - File locking with L<fcntl(2)>

This text also documents the following sub-packages:
SYNOPSIS

use File::FcntlLock;

my $fs = new File::FcntlLock;
$fs->l_type( F_RDLCK );
$fs->l_whence( SEEK_CUR );
$fs->l_start( 100 );
$fs->l_len( 123 );

open my $fh, '<', 'file_name' or die "Can't open file: $!
";
$fs->lock( $fh, F_SETLK )
or print "Locking failed: " . $fs->error . "\n";
$fs->l_type( F_UNLCK );
$fs->lock( $fh, F_SETLK )
or print "Unlocking failed: " . $fs->error . "\n";

DESCRIPTION

File locking in Perl is usually done using the C<flock> function. Unfortunately, this only allows locks on whole files and is often implemented in terms of the L<flock(2)> system function which has some shortcomings (especially concerning locks on remotely mounted file systems) and slightly different behaviour than L<fcntl(2)>.

Using this module file locking via L<fcntl(2)> can be done (obviously, this restricts the use of the module to systems that have a L<fcntl(2)> system call). Before a file (or parts of a file) can be locked, an object simulating a flock structure, containing information in a binary format to be passed to L<fcntl(2)> for locking requests, must be created and its properties set. Afterwards, by calling the L<lock()> method a lock can be set and removed or it can be determined if and which process currently holds the lock.

File::FcntlLock (or its alias File::FcntlLock::XS) uses a shared library,
build during installation, to call the L\texttt{fcntl(2)} system function directly. If
this is unsuitable there are two alternatives, File::FcntlLock::Pure and
File::FcntlLock::Inline. Both call the Perl C\texttt{fcntl} function instead and
use Perl code to assemble and disassemble the structure. For this at some
time the (system-dependent) binary layout of the flock structure must
have been determined via a program written in C. The difference between
File::FcntlLock::Pure and File::FcntlLock::Inline is that for the former
this happened when the package is installed while for the latter it is
done each time the package is loaded (e.g., with C\texttt{use}). Thus, for
File::FcntlLock::Inline to work a C compiler must be available. There
are some minor differences in the functionality and the behaviour on
passing the method for locking invalid arguments to be described below.

=head2 Creating objects

=over 4

=item C\texttt{new()}

To create a new object, representing a flock structure, call L\texttt{new()}: 

\$fs = \texttt{new File::FcntlLock;}

The object has a number of properties, reflecting the members of the
flock structure to be passed to L\texttt{fcntl(2)} (see below). Per default
on object creation the L\texttt{l_type} property is set to C\texttt{F_RDLCK},
L\texttt{l_whence} to C\texttt{SEEK_SET}, and both L\texttt{l_start} and L\texttt{l_len} to 0,
i.e., the settings for a read lock on the whole file.

These defaults can be overruled by passing the L\texttt{new()} method a set
of key-value pairs to initialize the objects properties, e.g. use

\$fs = \texttt{new File::FcntlLock( \_type => F_WRLCK,}
       \_whence => SEEK_SET,
       \_start => 0,
       \_len => 100 );

if you intend to obtain a write lock for the first 100 bytes of a file.

=back

=head2 Object properties

Once the object simulating the flock structure has been created
the following methods allow to query and, in most cases, to also
modify its properties.
over 4

=item C<l_type()>

If called without an argument the method returns the current setting of the lock type, otherwise the lock type is set to the argument's value which must be either C<F_RDLCK>, C<F_WRLCK> or C<F_UNLCK> (for read lock, write lock or unlock).

=item C<l_whence()>

This method sets, when called with an argument, the L<l_whence> property of the flock object, determining if the L<l_start> value is relative to the start of the file, to the current position in the file or to the end of the file. These values are C<SEEK_SET>, C<SEEK_CUR> and C<SEEK_END> (also see the man page for L<lseek(2)>). If called with no argument the current value of the property is returned.

=item C<l_start()>

Queries or sets the start position (offset) of the lock in the file according to the mode selected by the L<l_whence> member. See also the man page for L<lseek(2)>.

=item C<l_len()>

Queries or sets the length of the region (in bytes) in the file to be locked. A value of 0 is interpreted to mean a lock, starting at L<l_start>, to the end of the file. E.g., a lock obtained with L<l_whence> set to C<SEEK_SET> and both L<l_start> and L<l_len> set to 0 locks the complete file.

According to SUSv3 support for negative values for L<l_len> are permitted, resulting in a lock ranging from C<l_start+l_len> up to and including C<l_start-1>. But not all systems support negative values for L<l_len> and will return an error when you try to obtain such a lock, so please read the L<fcntl(2)> man page of the system carefully for details.

=item C<l_pid()>

If a call of the L<lock()> method with C<F_GETLK> indicates that another process is holding the lock (in which case the L<l_type> property will be either C<F_WRLCK> or C<F_RDLCK>) a call of the L<l_pid()> method returns the PID of the process holding the lock. This method does not accept any arguments.
Locking

After having set up the object representing a flock structure one can then try to obtain a lock, release it or determine the current holder of the lock by invoking the L<lock()> method:

This method expects two arguments. The first one is a file handle (or typeglob), File::FcntlLock, and thus File::FcntlLock::XS (but neither File::FcntlLock::Pure nor File::FcntlLock::Inline), also accepts a "raw" integer file descriptor. The second argument is a flag indicating the action to be taken. So call it as in

$fs->lock( $fh, F_SETLK );

There are three values that can be used as the second argument:

With C<F_SETLK> the L<lock()> method tries to obtain a lock (when L<l_type> is set to either C<F_WRLCK> or C<F_RDLCK>) or releases it (if L<l_type> is set to C<F_UNLCK>). If an attempt is made to obtain a lock but a lock is already being held by some other process the method returns C<undef> and C<errno> is set to C<EACCESS> or C<EAGAIN> (please see the the man page for L<fcntl(2)> for more details).

is similar to C<F_SETLK>, but instead of returning an error if the lock can't be obtained immediately it puts the calling process to sleep, i.e., it blocks, until the lock is obtained at some later time. If a signal is received while waiting for the lock the method returns C<undef> and C<errno> is set to C<EINTR>.

With C<F_GETLK> the L<lock()> method determines if and which process currently is holding the lock. If there's no other lock the L<l_type> property will be set to C<F_UNLCK>. Otherwise the flock structure object
is set to the values that would prevent us from obtaining a lock. There may be several processes that keep us from getting a lock, including some that themselves are blocked waiting to obtain a lock. C<F_GETLK> will only make details of one of these processes visible, and one has no control over which process this is.

On success the L<lock()> method returns the string "0 but true", i.e., a value that is true in boolean but 0 in numeric context. If the method fails (as indicated by an C<undef> return value) you can either immediately evaluate the error number (using $!, $ERRNO or $OS_ERROR) or check for it via the methods discussed below at some later time.

=head2 Error handling

There are minor differences between File::FcntlLock on the one hand and File::FcntlLock::Pure and File::FcntlLock::Inline on the other, due to the first calling the system function L<fcntl(2)> directly while the latter two invoke the Perl C<fcntl> function. Perl's C<fcntl> function already returns a Perl error on some types of invalid arguments. In contrast File::FcntlLock passes them on to the L<fcntl(2)> system call and then returns the systems response to the caller.

There are three methods for obtaining information about the reason the a call of the L<lock()> method failed:

=item C<lock_errno()>

Returns the C<errno> error number from the latest call of L<lock()>.
If the last call did not result in an error C<undef> is returned.

=item C<error()>

Returns a short description of the error that happened during the latest call of L<lock()>.
Please take the messages with a grain of salt, they represent what SUSv3 (IEEE 1003.1-2001) and the Linux, TRUE64, OpenBSD3 and Solaris8 man pages tell what the error numbers mean. There could be differences (and additional error numbers) on other systems. If there was no error the method returns C<undef>.  

While the \texttt{error()} method tries to return a string with some direct relevance to the locking operation (i.e., "File or segment already locked by other process(es)" instead of "Permission denied") this method returns the "normal" system error message associated with \texttt{errno}. The method returns \texttt{undef} if there was no error.

The package exports the following constants:

- \texttt{F_GETLK}
- \texttt{F_SETLK}
- \texttt{F_SETLKW}
- \texttt{F_RDLCK}
- \texttt{F_WRLCK}
- \texttt{F_UNLCK}
- \texttt{SEEK_SET}
- \texttt{SEEK_CUR}
- \texttt{SEEK_END}

Obviously, this module requires that there's a \texttt{fcntl(2)} system call. Note also that under certain circumstances the File::FcntlLock::Pure and File::FcntlLock::Inline modules may not have been installed. This happens on 32-bit systems that use 64-bit integers in their flock structure but where the installed Perl version doesn't support the 'q' format for its \texttt{pack} and \texttt{unpack} functions.

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd which seems to have only very rudimentary support for locking with \texttt{fcntl(2)}. Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to an XS-only approach which hopefully will make the module more useful under certain circumstances.
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SEE ALSO

L<perl(1)>, L<fcntl(2)>, L<lssee(2)>

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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.
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*/

1.788 python3-lazr.restfulclient 0.14.2-2build1

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Files: doc/html/NCURSES-Programming-HOWTO.html
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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>

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File: install-sh

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when there is no Makefile.

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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 $```

---

1.790 wget 1.20.3 1ubuntu2

1.790.1 Available under license:

This package was debianized by Christian Schwarz <schwarz@monet.m.isar.de> on Mon, 18 Nov 1996 00:59:57 +0100
J. Ramos Goncalves <ramos@debian.org> on Thu, 13 Feb 1997 23:15:18 +0000
Nicols Lichtmaier <nick@debian.org> on Sat, 18 Oct 1997 21:23:12 -0300
Nol Kthe <noel@debian.org> on Mon, 18 Feb 2002 09:53:00 +0100

It was downloaded from ftp://ftp.gnu.org/gnu/wget/
Homepage: http://www.gnu.org/directory/wget.html
http://www.gnu.org/software/wget/wget.html

Upstream Author: Giuseppe Scrivano <gscrivano@gnu.org>

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1.794 update-manager-core 20.04.10.10

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1.796 python-colorama 0.4.3-1build1

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1.801 libyaml 0.2.2 1
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1.802 github.com/moby/sys/symlink 0.1.0

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    src/udev/mtd_probe/mtd_probe.h
    src/udev/mtd_probe/probe_smartmedia.c
    src/udev/scsi_id/scsi.h
    src/udev/scsi_id/scsi_id.c
    src/udev/scsi_id/scsi_id.h
    src/udev/scsi_id/scsi_serial.c
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    src/udev/udevadm-control.c
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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
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e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
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use both them and the Library together in an executable that you
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permitted, and provided that you do these two things:

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That's all there is to it!
Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
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  Original author of sensord.
* Bob Schlaermann
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* 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 lib sensors.

1.805 libsemanage 3.0 1build2
1.805.1 Available under license :

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

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

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b) You must cause the files modified to carry prominent notices
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c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

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

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

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b) Use a suitable shared library mechanism for linking with the
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For an executable, the required form of the "work that uses the 
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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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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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END OF TERMS AND CONDITIONS

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

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```
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Upstream-Name: golang
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src/cmd/vendor/golang.org/x/arch/x86/x86asm/testdata/libmach8db.c
src/runtime/memclr_arm.s
src/runtime/memmove_386.s
src/runtime/memmove_arm.s
src/runtime/memmove_plan9_386.s
src/runtime/memmove_plan9_arm.s
src/runtime/vlop_386.s
src/runtime/vlop_arm.s
src/runtime/vlvt.go

Origin: Plan 9 from User Space
Inferno utils/include/, src/lib9/, src/libmach/
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        utils/6l/, utils/6a/, utils/6c/, utils/iar/,
    utils/6l/, utils/6a/, utils/6c/, utils/iar/,
    utils/5l/, utils/6c/, utils/6a/, utils/5c/,
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dns.c - Recursive, Reentrant DNS Resolver.

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The parts of the libtelnet that handle Kerberos.

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vis.c in libbroken

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

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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@heading Richard Outerbridge

DES core in libhcrypto
D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec’s THINK (Lightspeed) C by Richard Outerbridge. 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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lib/hcrypto/test_dh.c

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1.828 linux-atm 2.5.1-4

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

import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
exec(open('idna/package_data.py').read(), package_data)

arguments = {
    'name': 'idna',
    'packages': ['idna'],
    'version': package_data['__version__'],
    'description': 'Internationalized Domain Names in Applications (IDNA)',
    'long_description': io.open("README.rst", encoding="UTF-8").read(),
    'author': 'Kim Davies',
    'author_email': 'kim@cynosure.com.au',
    'license': 'BSD-like',
    'url': 'https://github.com/kjd/idna',
    'classifiers': [
        'Development Status :: 5 - Production/Stable',
        'Intended Audience :: Developers',
        'Intended Audience :: System Administrators',
        'License :: OSI Approved :: BSD License',
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Topic :: Internet :: Name Service (DNS)',
        'Topic :: Software Development :: Libraries :: Python Modules',
        'Topic :: Utilities',
    ],
    'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*,',
    'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1138607654_1614296153.76/0/python-idna-2.8-orig-1-tar-gz/idna-2.8/setup.py
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Metadata-Version: 1.2
Name: idna
Version: 2.8
Summary: Internationalized Domain Names in Applications (IDNA)
Home-page: https://github.com/kjd/idna
Author: Kim Davies
Support for the Internationalised Domain Names in Applications (IDNA) protocol as specified in `RFC 5891 <http://tools.ietf.org/html/rfc5891>`_. This is the latest version of the protocol and is sometimes referred to as “IDNA 2008”.

This library also provides support for Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

This acts as a suitable replacement for the “encodings.idna” module that comes with the Python standard library, but only supports the old, deprecated IDNA specification (`RFC 3490 <http://tools.ietf.org/html/rfc3490>`_).

Basic functions are simply executed:

.. code-block:: pycon

    # Python 3
    >>> import idna
    >>> idna.encode(.)
    b'xn--eckwd4c7c.xn--zckzah'
    >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))

    # Python 2
    >>> import idna
    >>> idna.encode(u'.')
    'xn--eckwd4c7c.xn--zckzah'
    >>> print idna.decode('xn--eckwd4c7c.xn--zckzah')

Packages
--------

The latest tagged release version is published in the PyPI repository:

.. image:: https://badge.fury.io/py/idna.svg
   :target: http://badge.fury.io/py/idna

Installation
------------

To install this library, you can use pip:
$ pip install idna

Alternatively, you can install the package using the bundled setup script:

$ python setup.py install

This library works with Python 2.7 and Python 3.4 or later.

Usage
-----

For typical usage, the `encode` and `decode` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

```python
# Python 3
>>> import idna
>>> idna.encode('.
 b'xn--eckwd4c7c.xn--zckzah'
 >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.

You may use the codec encoding and decoding methods using the `idna.codec` module:

```python
# Python 2
>>> import idna.codec
>>> print(u'.encode('idna')
xn--80ahd1agd.xn--80akhbyknj4f
 >>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
.

Conversions can be applied at a per-label basis using the `ulabel` or `alabel` functions if necessary:

```python
# Python 2
>>> idna.alabel(u")
Compatibility Mapping (UTS #46)

As described in `RFC 5895 <http://tools.ietf.org/html/rfc5895>`_, the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode Consortium. Known as `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_, it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as *LATIN CAPITAL LETTER K* is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.

.. code-block:: pycon

    # Python 3
    >>> import idna
    >>> idna.encode(u'Königsgäßchen')
    ...
    idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
    >>> idna.encode('Königsgäßchen', uts46=True)
    b'xn--knigsgchen-b4a3dun'
    >>> print(idna.decode('xn--knigsgchen-b4a3dun'))
    königsgäßchen

Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the *LATIN SMALL LETTER SHARP S* (ß) was converted into two *LATIN SMALL LETTER S* (ss), whereas in the current IDNA specification this conversion is not performed.

.. code-block:: pycon

    # Python 2
    >>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
    'xn--knigsgsschen-lcb0w'

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be
beneficial and could produce unexpected incompatible results.

``encodings.idna`` Compatibility
++++++++++++++++++++++++++++++++

Function calls from the Python built-in ``encodings.idna`` module are mapped to their IDNA 2008 equivalents using the ``idna.compat`` module. Simply substitute the `import` clause in your code to refer to the new module name.

Exceptions
----------

All errors raised during the conversion following the specification should raise an exception derived from the `idna.IDNAError` base class.

More specific exceptions that may be generated as `idna.IDNABidiError` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; `idna.InvalidCodepoint` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and `idna.InvalidCodepointContext` when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

Building and Diagnostics
------------------------

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script `tools/idna-data`.

This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:

* `idna-data make-libdata`. Generates `idnadata.py` and `uts46data.py`, the pre-calculated lookup tables using for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the `idnadata.py` and `uts46data.py` files.

* `idna-data make-table`. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by IANA `<http://iana.org>`.

* `idna-data U+0061`. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.
The tool accepts a number of arguments, described using `idna-data -h`. Most notably, the `--version` argument allows the specification of the version of Unicode to use in computing the table data. For example, `idna-data --version 9.0.0 make-libdata` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.7.

Testing
-------

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`.

The tests are run automatically on each commit at Travis CI:

```
.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
 :target: https://travis-ci.org/kjd/idna
```

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: System Administrators
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Topic :: Internet :: Name Service (DNS)
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Utilities
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*

Found in path(s):
* /opt/cola/permits/1138607654_1614296153.76/0/python-idna-2.8-orig-1-tar-gz/idna-2.8/idna.egg-info/PKG-INFO
* /opt/cola/permits/1138607654_1614296153.76/0/python-idna-2.8-orig-1-tar-gz/idna-2.8/PKG-INFO

1.837 installation-report 2.62ubuntu1
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For the script usb-list:
Original version: http://article.gmane.org/gmane.linux.usb.general/16828
Adapted for Debian Installer by Frans Pop.
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1.838 keyboard-configuration 1.194ubuntu3
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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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== 8x16-IL2.bdf 8x16c.bdf
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== unifont.bdf

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legacy10c.bdf, legacy10d.bdf, legacy12a.bdf, legacy12b.bdf, legacy14a.bdf, legacy14b.bdf, legacy14c.bdf, legacy14d.bdf, legacy14e.bdf, legacy14f.bdf, legacy14g.bdf, legacy14h.bdf, legacy14i.bdf, legacy14j.bdf, legacy14k.bdf, legacy14l.bdf, legacy16a.bdf, legacy16b.bdf, legacy16c.bdf, legacy16d.bdf, legacy16e.bdf, legacy16f.bdf, legacy16g.bdf, legacy16h.bdf, legacy16i.bdf, legacy16j.bdf, legacy16k.bdf, legacy16l.bdf, legacy16m.bdf, legacy19a.bdf, legacy8a.bdf, legacy8b.bdf, legacy8c.bdf, legacy8d.bdf, legacy8e.bdf, legacy8f.bdf, legacy8g.bdf, legacy8i.bdf

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1.852 libquadmath 10.3.0-1ubuntu1~20.04

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1.853 os-prober 1.74ubuntu2

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1.855 libasnheimdal 7.7.0+dfsg-1ubuntu1

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vis.c in libbroken

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

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.bosseelaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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Richard Outerbridge

DES core in libhcrypto

D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.
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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Open Source Used In CNAAP Standard (Ubuntu + docker Engine) Virtual Machine 1.0

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1.863 python-gdbm 3.8.10-0ubuntu1~20.04
1.863.1 Available under license :

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file.write('License: %s
' % self.get_license())

Found in path(s):
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.9/Lib/distutils/dist.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/distutils/dist.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Lib/distutils/dist.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/distutils/dist.py
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* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/lib2to3/fixed/fix_long.py
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extensions-3.9.5/3.6/Lib/lib2to3/fixes/fix_filter.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Lib/lib2to3/fixes/fix_filter.py
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* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/lib2to3/pgen2/tokenize.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/lib2to3/pgen2/tokenize.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.9/Lib/lib2to3/pgen2/tokenize.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3.8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Lib/lib2to3/pgen2/tokenize.py
No license file was found, but licenses were detected in source scan.
('binary-only', None, "cannot supply both '--source-only' and '--binary-only'")
'License: ' + self.distribution.get_license(),

Found in path(s):
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.9/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/distutils/command/bdist_rpm.py
No license file was found, but licenses were detected in source scan.

# version.

Found in path(s):
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.9/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/distutils/command/cygwinccompiler.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.9/Lib/distutils/command/cygwinccompiler.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/distutils/command/cygwinccompiler.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/distutils/command/cygwinccompiler.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/distutils/command/cygwinccompiler.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.9/Lib/distutils/command/cygwinccompiler.py

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extensions-3.9.5/3.8/Lib/lib2to3/pgen2/parse.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/lib2to3/pgen2/parse.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.9/Lib/lib2to3/pgen2/parse.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Lib/lib2to3/pgen2/literals.py

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# 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):
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/lib2to3/PatternGrammar.txt
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/lib2to3/PatternGrammar.txt
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/lib2to3/PatternGrammar.txt
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.9/Lib/lib2to3/PatternGrammar.txt
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Lib/lib2to3/PatternGrammar.txt
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/lib2to3/PatternGrammar.txt
No license file was found, but licenses were detected in source scan.

Executable.

Found in path(s):
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.9/Lib/distutils/spawn.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.7/Lib/distutils/spawn.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.10/Lib/distutils/spawn.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.8/Lib/distutils/spawn.py
* /opt/cola/permits/1301600528_1649264135.2/0/python3-stdlib-extensions-3-8-10-orig-tar-xz/python3-stdlib-extensions-3.9.5/3.6/Lib/distutils/spawn.py

1.864 gnutls 3.6.13-2ubuntu1.6

1.864.1 Available under license:

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Version 3, 29 June 2007

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@version 3.0 (December 2000)

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.
Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
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for humouring me on.

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

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1.886 pythoncommandnotfound 20.04.6 all
1.886.1 Available under license:
This package was debianized by Michael Vogt <michael.vogt@ubuntu.com> on Fri, 31 May 2005 10:10:41 +0100.

It was downloaded via bzr from https://code.launchpad.net/~zkrynicki/command-not-found/main

The ubuntu source is at:
https://code.edge.launchpad.net/~ubuntu-core-dev/command-not-found/ubuntu

Upstream Author: Zygmunt Krynicki <zkrynicki@gmail.com>
Michael Vogt <michael.vogt@ubuntu.com>

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1.887 liblockfile 1.16-1.1
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package github

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.

type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key  *string `json:"key,omitempty"`
    Name *string `json:"name,omitempty"`
    URL  *string `json:"url,omitempty"`
    HTMLURL        *string   `json:"html_url",omitempty`
    Featured       *bool     `json:"featured,omitempty"`
    Description    *string   `json:"description,omitempty"`
    Category       *string   `json:"category,omitempty"`
    Implementation *string   `json:"implementation,omitempty"`
    Required       *[]string `json:"required,omitempty"`
    Permitted      *[]string `json:"permitted,omitempty"`
    Forbidden      *[]string `json:"forbidden,omitempty"`
    Body           *string   `json:"body,omitempty"`
}
func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

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

    return *licenses, resp, err
}

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

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

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

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

    return license, resp, err
}
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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package github

import (
    "fmt"
    "net/http"
    "reflect"
    "testing"
)

func TestLicensesService_List(t *testing.T) {
    setup()
    defer teardown()

    mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
        testMethod(t, r, "GET")
        testHeader(t, r, "Accept", mediaTypeLicensesPreview)
        fmt.Fprint(w, `[["key":"mit","name":"MIT","url":"https://api.github.com/licenses/mit"]]
        `)
    })

    licenses, _, err := client.Licenses.List()
    if err != nil {
        t.Errorf("Licenses.List returned error: %v", err)
    }

    want := []License{License{
        Key:  String("mit"),
        Name: String("MIT"),
        URL:  String("https://api.github.com/licenses/mit"),
    }}
    if !reflect.DeepEqual(licenses, want) {

    }}
t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}
}

func TestLicensesService_Get(t *testing.T) {
  setup()
  defer teardown()

  mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
    testMethod(t, r, "GET")
    testHeader(t, r, "Accept", mediaTypeLicensesPreview)
    fmt.Fprintf(w, `{"key":"mit","name":"MIT"}
  })

  license, _, err := client.Licenses.Get("mit")
  if err != nil {
    t.Errorf("Licenses.Get returned error: %v", err)
  }

  want := &License{Key: String("mit"), Name: String("MIT")}
  if !reflect.DeepEqual(license, want) {
    t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
  }
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
  _, _, err := client.Licenses.Get("%")
  testURLParseError(t, err)
}

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was
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