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1.1 zlib 1.2.3

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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*/

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1.2 zlib 1.2.5

1.2.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.3 glibc 2.27

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src/getbsize.c
src/heapsort.c
src/merge.c
src/nlist.c
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man/humanize_number.3bsd
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1.10 libxmu 1.1.3-Ubuntu1

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1.11 xauth 1.1-0ubuntu1

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1.12 libxext 1.3.4-Ubuntu1

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1.13 dash 0.5.10.2-6

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1.14 xz 5.2.2

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1.15 futures 3.3.0

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must
be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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- c) 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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Version 3, 29 June 2007

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stand

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The

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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

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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

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=====

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

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

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

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1.6	1.5.2	2000	CNRI	no

2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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The Distutils2 project was started by Tarek Ziad and is currently
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distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order,
and welcome into the Fellowship of the Packaging!

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1.23 e2fsprogs 1.45.5-2ubuntu1

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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On Debian systems, the complete text of the GNU Lesser (Library) General Public License can be found in `/usr/share/common-licenses/LGPL-2`. This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card

<card@masi.ibp.fr>.

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#

This is a Makefile stub which handles the creation of BSD shared
libraries.

#

In order to use this stub, the following makefile variables must be defined.

#

BSDLIB_VERSION = 1.0

BSDLIB_IMAGE = libce

BSDLIB_MYDIR = et

BSDLIB_INSTALL_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD_LIB = \$(BSDLIB_IMAGE).so.\$(BSDLIB_VERSION)

BSDLIB_PIC_FLAG = -fpic

image: \$(BSD_LIB)

\$(BSD_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD_LIB) \$(LDFLAGS_SHLIB) \$(OBJS))

\$(MV) pic/\$(BSD_LIB) .

```
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip:: install-shlibs

```
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
```

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

<http://sourceforge.net/projects/e2fsprogs>

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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1.32 keyutils 1.6-6ubuntu1

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code,

which
must be distributed under the terms of Sections 1 and 2 above on a
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from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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

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

Section 6 states terms for distribution of such executables.

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

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

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of
Section 6.

Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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

engineering for debugging such modifications.

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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1.33 selinux 3.0-1build2

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1.34 grep 3.4-1

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The

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section 10

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- e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no

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Version 3, 29 June 2007

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GSS-API mechglue layer.

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@table

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@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

@item KCM credential cache.

@item HDB LDAP backend.

@end table

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Fortuna in libhcrypto

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Camellia in libhcrypto

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vis.c in libroken

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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.

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,
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Windows support

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lib/hcrypto/test_dh.c

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*/
```

Found in path(s):

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

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./" * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
./" */
./"
./" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
./"
```

Found in path(s):

```
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.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

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```

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

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

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

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

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

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

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

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have

a very serious security problem on your system and you should look into it.

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

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

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

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

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

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

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

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

Found in path(s):

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

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# */
```

Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta
was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

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

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

Read all the FEATURES, INSTALL, and CONVERSION files
Edit config.h
Edit Makefile
(both of these files have instructions inside; note that

some things in config.h are definable in Makefile and are
 therefore surrounded by #ifndef...#endif)
 'make'
 'su' and 'make install'
 (you may have to install the man pages by hand)
 kill your existing cron process
 (actually you can run your existing cron if you want, but why?)
 build new crontabs using /usr/lib/{crontab,crontab.local}
 (either put them all in "root"'s crontab, or divide it up
 and rip out all the 'su' commands, collapse the lengthy
 lists into
 ranges with steps -- basically, this step is
 as much work as you want to make it)
 start up the new cron
 (must be done as root)
 watch it. test it with 'crontab -r' and watch the daemon track your
 changes.
 if you like it, change your /etc/{rc,rc.local} to use it instead of
 the old one.

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

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(Berkeley) 4/4/90

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

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.\/*
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1.40 wheel 0.34.2

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set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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1.47 adduser 3.118ubuntu2

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Upstream-Contact: Anibal Monsalve Salazar <anibal@debian.org>

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1.49 debianutils 4.9.1

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1.53 sed 4.7-1

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1.56 ncurses 6.2-0ubuntu2

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This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

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Files: install-sh

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Calling this script install-sh is preferred over install.sh, to prevent `make` implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

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-- vile: txtmode file-encoding=utf-8

1.57 libsepol 3.0-1

1.57.1 Available under license :

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Version 2.1, February 1999

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Any executables

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1.58 base-passwd 3.5.47

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1.59 bzip2 1.0.8-2

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.60 cracklib 2.9.6-3.2

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From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
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r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20

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

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

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

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan

wrote:

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

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

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20

library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel]

cracklib license

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

-- Nathan
=20

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

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> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
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> license
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> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I
think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin

--

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

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional
code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

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

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

Cheers,

Nalin

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
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> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be

> > linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
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> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October
2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From
alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipv6.cc.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
[82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umn.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed

Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

>
> ----- Forwarded message -----
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

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

Happy now? :-)

-a

1.61 bash 5.0-6ubuntu1.1

1.61.1 Available under license :

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Version 2, June 1991

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

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

You should also get your employer (if you work as a programmer) or your

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

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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```

```
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```

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*-----*/
```

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```
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- * /libfile-fcntllock-perl-0-22-orig-1-tar-gz/File-FcntlLock-0.22/lib/File/FcntlLock/Core.pm
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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 Perls flock() function is based per default.

Since version 0.15 there three slightly different ways this can be done
with using this package. Per default a method is used where a shared
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 discus-

sions, 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.

AUTHOR

Jens Thoms Toerring <jt@toerring.de>

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=head1 NAME

File::FcntlLock - File locking with `L<fcntl(2)>`

This text also documents the following sub-packages:

=over 2

=item File::FcntlLock::XS

=item File::FcntlLock::Pure

=item File::FcntlLock::Inline

=back

=head1 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: $!\n";
$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";

```

=head1 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<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<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<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<new()>

To create a new object, representing a flock structure, call L<new()>:

```
$fs = new File::FcntlLock;
```

The object has a number of properties, reflecting the members of the flock structure to be passed to L<fcntl(2)> (see below). Per default on object creation the L<l_type> property is set to C<F_RDLCK>, L<l_whence> to C<SEEK_SET>, and both L<l_start> and L<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<new()> method a set of key-value pairs to initialize the objects properties, e.g. use

```
$fs = new File::FcntlLock( l_type => F_WRLCK,  
                           l_whence => SEEK_SET,  
                           l_start => 0,  
                           l_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 C<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.

=back

=head2 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:

=over 4

=item C<lock()>

This method expects two arguments. The first one is a file handle (or typeglob). File::FcntlLock, and thus File::FcntlLock::XS (B<but neither> File::FcntlLock::Pure B<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:

=over 4

=item C<F_SETLK>

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).

=item C<F_SETLKW>

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>.

=item C<F_GETLK>

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.

=back

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.

=back

=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:

=over 4

=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>.

=item C<system_error()>

While the L<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 C<errno>. The method returns C<undef> if there was no error.

=back

=head2 EXPORT

The package exports the following constants:

=over 2

=item F_GETLK F_SETLK F_SETLKW

=item F_RDLCK F_WRLCK F_UNLCK

=item SEEK_SET SEEK_CUR SEEK_END

=back

=head1 INCOMPATIBILITIES

Obviously, this module requires that there's a `L<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 `C<pack>` and `C<unpack>` functions.

=head1 CREDITS

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 `L<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.

=head1 AUTHOR

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=head1 SEE ALSO

L<perl(1)>, L<fcntl(2)>, L<lseek(2)>.

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1.65 xz 5.2.4-1ubuntu1

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1.66 cdebconf 0.251ubuntu1

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

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language

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

1.71 zlib 1.2.11.dfsg-2ubuntu1.2

1.71.1 Available under license :

Found license 'General Public License 2.0' in 'No. PKWare has apparently decided to keep that format proprietary, since 42. The match.asm code in contrib is under the GNU General Public License. GNU GPL?'

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

1.72 libyaml 0.2.5

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1.73 netbase 6.1

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1.74 scp 0.13.2

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1.75 idna 2.8

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.....

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

"""

```
import io, sys
```

```
from setuptools import setup
```

```
def main():
```

```
    python_version = sys.version_info[:2]
```

```
    if python_version < (2,7):
```

```
        raise SystemExit("Sorry, Python 2.7 or newer required")
```

```
    package_data = {}
```

```
    exec(open('idna/package_data.py').read(), package_data)
```

```
    arguments = {
```

```
        'name': 'idna',
```

```
        'packages': ['idna'],
```

```
        'version': package_data['__version__'],
```

```
        'description': 'Internationalized Domain Names in Applications (IDNA)',
```

```
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
```

```
        'author': 'Kim Davies',
```

```
        'author_email': 'kim@cynosure.com.au',
```

```
        'license': 'BSD-like',
```

```
        'url': 'https://github.com/kjd/idna',
```

```
        'classifiers': [
```

```
            'Development Status :: 5 - Production/Stable',
```

```
            'Intended Audience :: Developers',
```

```
            'Intended Audience :: System Administrators',
```

```
            'License :: OSI Approved :: BSD License',
```

```
            'Operating System :: OS Independent',
```

```
            'Programming Language :: Python',
```

```
            'Programming Language :: Python :: 2',
```

```
            'Programming Language :: Python :: 2.7',
```

```
            'Programming Language :: Python :: 3',
```

```
            'Programming Language :: Python :: 3.4',
```

```
            'Programming Language :: Python :: 3.5',
```

```
            'Programming Language :: Python :: 3.6',
```

```
            '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):
* /kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py

```

1.76 appdirs 1.4.3

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1.77 pyparsing 2.4.6

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1.78 toml 0.10.0

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1.83 python-webencodings 0.5.1

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that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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1.87 cron 3.0pl1-136ubuntu1

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*/
```

Found in path(s):

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

```

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

Found in path(s):

```

* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/entry.c
*
/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/misc.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/config.h
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/job.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/database.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/env.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.h
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/user.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/do_command.c
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.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

Found in path(s):

*

/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.8

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

```

Found in path(s):

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

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.\"
.\" @(#)bitstring.3 5.1
(Berkeley) 12/13/89
.\"

```

Found in path(s):

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

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.\" */

.\"

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

.\"

Found in path(s):

*

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

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*/

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

Read the comments at the top of the Makefile, then edit the area marked

'configurable
stuff'.

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

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

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

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

say:
make all

su and say:
make install

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

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

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

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

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have

no effect until they are reinstalled with another ``crontab -r'` command. (2) The `crontab` command will affect the crontab of the person using the command unless ``-u USER'` is given; ``-u'` only works for root. When using most ``su'` commands under most BSD's, ``crontab'` will still think of you as yourself even though you may think of yourself as root -- so use ``-u'` liberally. (3) the ``-r'` option stands for ``replace'`; check the man page for `crontab(1)` for other possibilities.

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

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

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

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

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

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

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*

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```
# * user.
```

```
# *
```

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```
# * I'll try to keep a version up to date. I can be reached as follows:
```

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

```
# */
```

Vixie Cron V3.0

December 27, 1993

[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]

[V2.0 was July 5, 1990]

[V2.0-beta

was December 9, 1988]

[V1.0 was May 6, 1987]

Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

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

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

Read all the FEATURES, INSTALL, and CONVERSION files

Edit config.h

Edit Makefile

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

'make'

'su' and 'make install'

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

kill your existing cron process

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

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

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

ranges with steps -- basically, this step is

as much work as you want to make it)

start up the new cron

(must be done as root)

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

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

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

Found in path(s):

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

1.88 attr 2.4.48-5

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Version 2.1, February 1999

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1.89 diffutils 3.7-3

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stand

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The

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and valid for as

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1.90 fakeroot 1.24-1

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1.94 libfido2 1.3.1-1ubuntu2

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1.95 libalgorithm-diff-xs-perl 0.04-6

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NAME

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

SYNOPSIS

```
# Drop-in replacement to Algorithm::Diff, but "compact_diff"
# and C<LCSidx> will run much faster for large data sets.
use Algorithm::Diff::XS qw( compact_diff LCSidx );
```

DESCRIPTION

This module is a simple re-packaging of Joe Schaefer's excellent but not very well-known Algorithm::LCS with a drop-in interface that simply re-uses the installed version of the Algorithm::Diff module.

Note that only the "LCSidx" function is optimized in XS at the moment, which means only "compact_diff" will get significantly faster for large

data sets, while "diff" and "sdiff" will run in identical speed as "Algorithm::Diff".

BENCHMARK

	Rate	Algorithm::Diff	Algorithm::Diff::XS
Algorithm::Diff	14.7/s	--	-98%
Algorithm::Diff::XS	806/s		
	5402%	--	

The benchmarking script is as below:

```
my @data = ([qw/a b d/ x 50], [qw/b a d c/ x 50]);
cmpthese( 500, {
    'Algorithm::Diff' => sub {
        Algorithm::Diff::compact_diff(@data)
    },
    'Algorithm::Diff::XS' => sub {
        Algorithm::Diff::XS::compact_diff(@data)
    },
});
```

SEE ALSO

Algorithm::Diff, Algorithm::LCS.

AUTHORS

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COPYRIGHT

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Contains derived code copyrighted 2003 by Joe Schaefer,
<joe+cpan@sunstarsys.com>.

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

Found in path(s):

* /libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/README

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

/*

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

Automatically created by Devel::PPPort running under
perl 5.008008 on Wed Oct 22 22:33:39 2008.

Do NOT edit this file directly! -- Edit PPport_pm.PL and the includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

SKIP

=pod

=head1 NAME

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

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--patch=file write one patch file with changes

--copy=suffix write changed copies with suffix

--diff=program use diff program and options

--compat-version=version

 provide compatibility with Perl version

--cplusplus accept C++ comments

--quiet don't output anything except fatal errors

--nodiag don't show diagnostics

--nohints don't show hints

--nochanges don't suggest changes

--nofilter don't filter input files

--list-provided list provided API

--list-unsupported list unsupported API

--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.9.3.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --patch=I<file>

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

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs.

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

=head2 --diff=I<program>

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

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

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

=head2 --cplusplus

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

=head2 --quiet

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

=head2 --nodiag

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

=head2 --nohints

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

=head2 --nochanges

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

=head2 --nofilter

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

=head2 --list-provided

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

=head2 --list-unsupported

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

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

Show portability information for API elements matching I<name>.

If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

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

=over 4

=item *

Including this header is the first major one. This alone will give you

access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

```
perl ppport.h --list-provided
```

to see which API elements are provided by ppport.h.

=item *

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

=item *

If you use one of a few functions that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether your module has a single or multiple files that use such functions, you want either C<static> or global variants.

For a C<static> function, use:

```
#define NEED_function
```

For a global function, use:

```
#define NEED_function_GLOBAL
```

Note that you mustn't have more than one global request for one function in your project.

Function	Static Request	Global Request

eval_pv()	NEED_eval_pv	NEED_eval_pv_GLOBAL
grok_bin()	NEED_grok_bin	NEED_grok_bin_GLOBAL
grok_hex()	NEED_grok_hex	NEED_grok_hex_GLOBAL
grok_number()	NEED_grok_number	NEED_grok_number_GLOBAL
grok_numeric_radix()	NEED_grok_numeric_radix	NEED_grok_numeric_radix_GLOBAL
grok_oct()	NEED_grok_oct	NEED_grok_oct_GLOBAL

<code>newCONSTSUB()</code>	<code>NEED_newCONSTSUB</code>	<code>NEED_newCONSTSUB_GLOBAL</code>
<code>newRV_noinc()</code>	<code>NEED_newRV_noinc</code>	<code>NEED_newRV_noinc_GLOBAL</code>
<code>sv_2pv_nolen()</code>	<code>NEED_sv_2pv_nolen</code>	<code>NEED_sv_2pv_nolen_GLOBAL</code>
<code>sv_2pvbyte()</code>	<code>NEED_sv_2pvbyte</code>	<code>NEED_sv_2pvbyte_GLOBAL</code>
<code>sv_catpvf_mg()</code>	<code>NEED_sv_catpvf_mg</code>	<code>NEED_sv_catpvf_mg_GLOBAL</code>
<code>sv_catpvf_mg_nocontext()</code>	<code>NEED_sv_catpvf_mg_nocontext</code>	<code>NEED_sv_catpvf_mg_nocontext_GLOBAL</code>
<code>sv_setpvf_mg()</code>	<code>NEED_sv_setpvf_mg</code>	<code>NEED_sv_setpvf_mg_GLOBAL</code>
<code>sv_setpvf_mg_nocontext()</code>	<code>NEED_sv_setpvf_mg_nocontext</code>	<code>NEED_sv_setpvf_mg_nocontext_GLOBAL</code>
<code>vnewSVpvf()</code>	<code>NEED_vnewSVpvf</code>	
	<code>NEED_vnewSVpvf_GLOBAL</code>	

To avoid namespace conflicts, you can change the namespace of the explicitly exported functions using the `C<DPPP_NAMESPACE>` macro. Just `C<#define>` the macro before including `C<ppport.h>`:

```
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is `C<DPPP_>`.

=back

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

=head1 EXAMPLES

To verify whether `F<ppport.h>` is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, `F<ppport.h>` can be run as a Perl script to check your source code. Simply say:

```
perl ppport.h
```

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

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

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

If you only want your code to be scanned without any suggestions

for changes, use:

```
perl ppport.h --nochanges
```

You can specify a different C<diff> program or options, using the C<--diff> option:

```
perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

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

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

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

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

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

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

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::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 ($@ and grep /^-/ , @ARGV) {
    usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options.\n";
}

usage() if $opt{help};

if (exists $opt{'compat-version'}) {
    my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
    if ($@) {
        die "Invalid version number format: '$opt{'compat-version'}'\n";
    }
    die "Only Perl 5 is supported\n" if $r != 5;
    die "Invalid version number: $opt{'compat-version'}\n"
    if $v >= 1000 || $s >= 1000;
    $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
    $opt{'compat-version'} = 5;
}

# Never use C comments in this file!!!!

my $ccs = '/.*';
my $cce = '.*.'/;
my $rcs = quotemeta $ccs;
my $rcce = quotemeta $cce;

my %API = map { /^(\\w+)|(\\[\\^]*)|(\\[\\^]*)|(\\w*)$/
    ? ( $1 => {
        ($2          ? ( base   => $2 ) : ()),
        ($3          ? ( todo   => $3 ) : ()),
        (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
        (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
        (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
    }

```

```

    } )
    : die "invalid spec: $_" } qw(
AvFILLp|5.004050||p
AvFILL|||
CLASS|||n
CX_CURPAD_SAVE|||
CX_CURPAD_SV|||
CopFILEAV|5.006000||p
CopFILEGV_set|5.006000||p
CopFILEGV|5.006000||p
CopFILESV|5.006000||p
CopFILE_set|5.006000||p
CopFILE|5.006000||p
CopSTASHPV_set|5.006000||p
CopSTASHPV|5.006000||p
CopSTASH_eq|5.006000||p
CopSTASH_set|5.006000||p
CopSTASH|5.006000||p
CopyD|5.009002||p
Copy|||
CvPADLIST|||
CvSTASH|||
CvWEAKOUTSIDE|||
DEFSV|5.004050||p
END_EXTERN_C|5.005000||p
ENTER|||
ERRSV|5.004050||p
EXTEND|||
EXTERN_C|5.005000||p
FREEMPS|||
GIMME_V|5.004000|n
GIMME|||n
GROK_NUMERIC_RADIX|5.007002||p
G_ARRAY|||
G_DISCARD|||
G_EVAL|||
G_NOARGS|||
G_SCALAR|||
G_VOID||5.004000|
GetVars|||
GvSV|||
Gv_AMupdate|||
HEf_SVKEY||5.004000|
HeHASH||5.004000|
HeKEY||5.004000|
HeKLEN||5.004000|
HePV||5.004000|
HeSVKEY_force||5.004000|

```

HeSVKEY_set|5.004000|
HeSVKEY|5.004000|
HeVAL|5.004000|
HvNAME|||
INT2PTR|5.006000||p
IN_LOCALE_COMPILETIME|5.007002||p
IN_LOCALE_RUNTIME|5.007002||p
IN_LOCALE|5.007002||p
IN_PERL_COMPILETIME|5.008001||p
IS_NUMBER_GREATER_THAN_UV_MAX|5.007002||p
IS_NUMBER_INFINITY|5.007002||p
IS_NUMBER_IN_UV|5.007002||p
IS_NUMBER_NAN|5.007003||p
IS_NUMBER_NEG|5.007002||p
IS_NUMBER_NOT_INT|5.007002||p
IVSIZE|5.006000||p
IVTYPE|5.006000||p
IVdf|5.006000||p
LEAVE|||
LVRET|||
MARK|||
MY_CXT_CLONE|5.009002||p
MY_CXT_INIT|5.007003||p
MY_CXT|5.007003||p
MoveD|5.009002||p
Move|||
NEWSV|||
NOOP|5.005000||p
NUM2PTR|5.006000||p
NVTYPE|5.006000||p
NVef|5.006001||p
NVff|5.006001||p
NVgf|5.006001||p
Newc|||
Newz|||
New|||
Nullav|||
Nullch|||
Nullcv|||
Nullhv|||
Nullsv|||
ORIGMARK|||
PAD_BASE_SV|||
PAD_CLONE_VARS|||
PAD_COMPNAME_FLAGS|||
PAD_COMPNAME_GEN_set|||
PAD_COMPNAME_GEN|||
PAD_COMPNAME_OURSTASH|||

PAD_COMPNAME_PV|||
PAD_COMPNAME_TYPE|||
PAD_RESTORE_LOCAL|||
PAD_SAVE_LOCAL|||
PAD_SAVE_SETNULLPAD|||
PAD_SETSV|||
PAD_SET_CUR_NOSAVE|||
PAD_SET_CUR|||
PAD_SV|||
PAD_SV|||
PERL_BCDVERSION|5.009003||p
PERL_GCC_BRACE_GROUPS_FORBIDDEN|5.008001||p
PERL_INT_MAX|5.004000||p
PERL_INT_MIN|5.004000||p
PERL_LONG_MAX|5.004000||p
PERL_LONG_MIN|5.004000||p
PERL_MAGIC_arylen|5.007002||p
PERL_MAGIC_backref|5.007002||p
PERL_MAGIC_bm|5.007002||p
PERL_MAGIC_collxfrm|5.007002||p
PERL_MAGIC_dbfile|5.007002||p
PERL_MAGIC_dbline|5.007002||p
PERL_MAGIC_defelem|5.007002||p
PERL_MAGIC_envelem|5.007002||p
PERL_MAGIC_env|5.007002||p
PERL_MAGIC_ext|5.007002||p
PERL_MAGIC_fm|5.007002||p
PERL_MAGIC_glob|5.007002||p
PERL_MAGIC_isaelem|5.007002||p
PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.007002||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.007002||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.007002||p
PERL_MAGIC_pos|5.007002||p
PERL_MAGIC_qr|5.007002||p
PERL_MAGIC_regdata|5.007002||p
PERL_MAGIC_regdatum|5.007002||p
PERL_MAGIC_regex_global|5.007002||p
PERL_MAGIC_shared_scalar|5.007003||p
PERL_MAGIC_shared|5.007003||p
PERL_MAGIC_sigelem|5.007002||p
PERL_MAGIC_sig|5.007002||p
PERL_MAGIC_substr|5.007002||p
PERL_MAGIC_sv|5.007002||p
PERL_MAGIC_taint|5.007002||p
PERL_MAGIC_tiedelem|5.007002||p

PERL_MAGIC_tiedscalar|5.007002||p
PERL_MAGIC_tied|5.007002||p
PERL_MAGIC_utf8|5.008001||p
PERL_MAGIC_uvar_elem|5.007003||p
PERL_MAGIC_uvar|5.007002||p
PERL_MAGIC_vec|5.007002||p
PERL_MAGIC_vstring|5.008001||p
PERL_QUAD_MAX|5.004000||p
PERL_QUAD_MIN|5.004000||p
PERL_REVISION|5.006000||p
PERL_SCAN_ALLOW_UNDESCORES|5.007003||p
PERL_SCAN_DISALLOW_PREFIX|5.007003||p
PERL_SCAN_GREATER_THAN_UV_MAX|5.007003||p
PERL_SCAN_SILENT_ILLDIGIT|5.008001||p
PERL_SHORT_MAX|5.004000||p
PERL_SHORT_MIN|5.004000||p
PERL_SUBVERSION|5.006000||p
PERL_UCHAR_MAX|5.004000||p
PERL_UCHAR_MIN|5.004000||p
PERL_UINT_MAX|5.004000||p
PERL_UINT_MIN|5.004000||p
PERL_ULONG_MAX|5.004000||p
PERL_ULONG_MIN|5.004000||p
PERL_UNUSED_DECL|5.007002||p
PERL_UQUAD_MAX|5.004000||p
PERL_UQUAD_MIN|5.004000||p
PERL_USHORT_MAX|5.004000||p
PERL_USHORT_MIN|5.004000||p
PERL_VERSION|5.006000||p
PL_DBsingle|||pn
PL_DBsub|||pn
PL_DBtrace|||n
PL_Sv|5.005000||p
PL_compiling|5.004050||p
PL_copline|5.005000||p
PL_curcop|5.004050||p
PL_curstash|5.004050||p
PL_debstash|5.004050||p
PL_defgv|5.004050||p
PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL_dowarn|||pn
PL_errgv|5.004050||p
PL_hexdigit|5.005000||p
PL_hints|5.005000||p
PL_last_in_gv|||n
PL_modglobal||5.005000|n
PL_na|5.004050||pn

PL_no_modify|5.006000||p
PL_ofs_sv|||n
PL_perl_destruct_level|5.004050||p
PL_perldb|5.004050||p
PL_ppaddr|5.006000||p
PL_rsfilters|5.004050||p
PL_rsf|5.004050||p
PL_rs|||n
PL_stack_base|5.004050||p
PL_stack_sp|5.004050||p
PL_stdinv|5.004050||p
PL_sv_arenaroot|5.004050||p
PL_sv_no|5.004050||pn
PL_sv_undef|5.004050||pn
PL_sv_yes|5.004050||pn
PL_tainted|5.004050||p
PL_tainting|5.004050||p
POPi|||n
POPI|||n
POPn|||n
POPpbytex||5.007001|n
POPpx||5.005030|n
POPp|||n
POPs|||n
PTR2IV|5.006000||p
PTR2NV|5.006000||p
PTR2UV|5.006000||p
PTR2ul|5.007001||p
PTRV|5.006000||p
PUSHMARK|||
PUSHi|||
PUSHmortal|5.009002||p
PUSHn|||
PUSHp|||
PUSHs|||
PUSHu|5.004000||p
PUTBACK|||
PerlIO_clearerr||5.007003|
PerlIO_close||5.007003|
PerlIO_eof||5.007003|
PerlIO_error||5.007003|
PerlIO_fileno||5.007003|
PerlIO_fill||5.007003|
PerlIO_flush||5.007003|
PerlIO_get_base||5.007003|
PerlIO_get_bufsiz||5.007003|
PerlIO_get_cnt||5.007003|
PerlIO_get_ptr||5.007003|

PerlIO_read||5.007003|
PerlIO_seek||5.007003|
PerlIO_set_cnt||5.007003|
PerlIO_set_ptrcnt||5.007003|
PerlIO_setlinebuf||5.007003|
PerlIO_stderr||5.007003|
PerlIO_stdin||5.007003|
PerlIO_stdout||5.007003|
PerlIO_tell||5.007003|
PerlIO_unread||5.007003|
PerlIO_write||5.007003|
Poison|5.008000||p
RETVAl||n
Renewc||
Renew||
SAVECLEARSV||
SAVECOMPPAD||
SAVEPADSV||
SAVETMPS||
SAVE_DEFSV|5.004050||p
SPAGAIN||
SP||
START_EXTERN_C|5.005000||p
START_MY_CXT|5.007003||p
STMT_END||p
STMT_START||p
ST||
SVt_IV||
SVt_NV||
SVt_PVAV||
SVt_PVCV||
SVt_PVHV||
SVt_PVMG||
SVt_PV||
Safefree||
Slab_Alloc||
Slab_Free||
StructCopy||
SvCUR_set||
SvCUR||
SvEND||
SvGETMAGIC|5.004050||p
SvGROW||
SvIOK_UV||5.006000|
SvIOK_notUV||5.006000|
SvIOK_off||
SvIOK_only_UV||5.006000|
SvIOK_only||

SvIOK_on||
SvIOKp||
SvIOK||
SvIVX||
SvIV_nomg|5.009001||p
SvIV_set||
SvIVx||
SvIV||
SvIsCOW_shared_hash|5.008003|
SvIsCOW|5.008003|
SvLEN_set||
SvLEN||
SvLOCK|5.007003|
SvMAGIC_set|5.009003|
SvNIOK_off||
SvNIOKp||
SvNIOK||
SvNOK_off||
SvNOK_only||
SvNOK_on||
SvNOKp||
SvNOK||
SvNVX||
SvNV_set||
SvNVx||
SvNV||
SvOK||
SvOOK||
SvPOK_off||
SvPOK_only_UTF8|5.006000|
SvPOK_only||
SvPOK_on||
SvPOKp||
SvPOK||
SvPVX||
SvPV_force_nomg|5.007002||p
SvPV_force||
SvPV_nolen|5.006000||p
SvPV_nomg|5.007002||p
SvPV_set||
SvPVbyte_force|5.009002|
SvPVbyte_nolen|5.006000|
SvPVbytex_force|5.006000|
SvPVbytex|5.006000|
SvPVbyte|5.006000||p
SvPVutf8_force|5.006000|
SvPVutf8_nolen|5.006000|
SvPVutf8x_force|5.006000|

SvPVutf8x||5.006000|
SvPVutf8||5.006000|
SvPVx|||
SvPV|||
SvREFCNT_dec|||
SvREFCNT_inc|||
SvREFCNT|||
SvROK_off|||
SvROK_on|||
SvROK|||
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|
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);

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

# Scan for possible replacement candidates

my(%replace, %need, %hints, %depends);
my $replace = 0;
my $hint = "";

while (<DATA>) {
    if ($hint) {
        if (m{^s*.*\s(.*?)s*$})
        {
            $hints{$hint} ||= ""; # suppress warning with older perls

```

```

$hints{$hint} .= "$1\n";
}
else {
    $hint = "";
}
}
$hint = $1 if m{^\s*$rcss\sHint:\s+(\w+)\s*$};

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

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

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

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!^(.*)$! ? $1 : "\Q$opt{'api-info'}\E$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\n";
        my $info
        = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "Supported at least starting from perl-$base.\n";
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
            print "Support by $ppport provided back to perl-$todo.\n";
            print "Support needs to be explicitly requested by NEED_$.f.\n" if exists $need{$f};
            print "Depends on: ", join(' ', @{$depends{$f}}), ".\n" if exists $depends{$f};
            print "$hints{$f}" if exists $hints{$f};
            $info++;
        }
        unless ($info) {
            print "No portability information available.\n";
        }
        $count++;
    }
    if ($count > 0) {

```

```

    print "\n";
}
else {
    print "Found no API matching '$opt{api-info}'.\n";
}
exit 0;
}

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

my @files;
my @srcext = qw( xs c h cc cpp );
my $srcext = join '|', @srcext;

if (@ARGV) {
    my %seen;
    @files = grep { -f && !exists $seen{$_} } map { glob $_ } @ARGV;
}
else {
    eval {
        require File::Find;
        File::Find::find(sub {
            $File::Find::name =~ /\.$srcext$/i
            and push @files, $File::Find::name;
        }, '.');
    };
    if ($?) {
        @files = map { glob ".*$_" } @srcext;
    }
}

if (!@ARGV || $opt{filter}) {
    my(@in, @out);
    my %xsc = map { /(.*).\xs$/ ? ("1.c" => 1, "1.cc" => 1) : () } @files;
    for (@files) {

```

```

my $out = exists $xsc{$_} || ^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);
%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$#ccom$cc";
}egsx;

$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = ($c =~ /#.include.*\Q$ppport\E/);

my $func;

for $func (keys %API) {
    my $match = $func;
    $match .= "|$revreplace{$func}" if exists $revreplace{$func};
    if ($c =~ /\b(?:Perl_)?($match)\b/) {
        $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
        $file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
        if (exists $API{$func}{provided}) {
            if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
                $file{uses}{$func}++;
                my @deps = rec_depend($func);
                if (@deps) {
                    $file{uses_deps}{$func} = \@deps;
                    for (@deps) {
                        $file{uses}{$_} = 0 unless exists $file{uses}{$_};
                    }
                }
                for ($func, @deps) {
                    if (exists $need{$_}) {
                        $file{needs}{$_} = 'static';
                    }
                }
            }
        }
        if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
            if ($c =~ /\b$func\b/) {
                $file{uses_todo}{$func}++;
            }
        }
    }
}

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

```

```

    warning("Possibly wrong #define $1 in $filename");
}
}

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

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

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

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

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

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

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

```

```

}
else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{\bPerl_$func(s*)((\s*aTHX_?)?\s*)}
                        {$func$1}g);
}
}

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

for $func (sort keys %{$file{uses}}) {
    next unless $file{uses}{$func}; # if it's only a dependency
    if (exists $file{uses_deps}{$func}) {
        diag("Uses $func, which
depends on ", join(', ', @{$file{uses_deps}{$func}}));
    }
    elsif (exists $replace{$func}) {
        warning("Uses $func instead of $replace{$func}");
        $file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
    }
    else {
        diag("Uses $func");
    }
    hint($func);
}

for $func (sort keys %{$file{uses_todo}}) {
    warning("Uses $func, which may not be portable below perl ",
        format_version($API{$func}{todo}));
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = "";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    }
    elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^\$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

```

```

for $func (sort keys %{$file{needed_global}}) {
  my $message =
";
  if (not exists $global{uses}{$func}) {
    $message = "No need to define NEED_{$func}_GLOBAL if $func is never used";
  }
  elsif (exists $file{needs}{$func}) {
    if ($file{needs}{$func} eq 'extern') {
      $message = "No need to define NEED_{$func}_GLOBAL when already needed globally";
    }
    elsif ($file{needs}{$func} eq 'static') {
      $message = "No need to define NEED_{$func}_GLOBAL when only used in this file";
    }
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_{$func}_GLOBAL\b.*$LF//mg);
  }
}

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

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

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

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

unless ($file{has_inc_ppport}) {
  diag("Needs to include '$ppport'");
}

```

```

$pp .= qq(#include "$ppport"\n)
}

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

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

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

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("$newfile' already exists, refusing to write copy of '$filename'");
        }
        else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
            }
        }
    }
}

```

```

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

close PATCH if $patch_opened;

exit 0;

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

```

my $diff;

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

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

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

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

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

print F $diff;

}

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

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

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

        if (open F, "$prog $file $tmp |") {

```

```

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

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

return undef;
}

sub can_use
{
    eval "use @_.";
    return $_ eq "";
}

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

sub parse_version
{
    my $ver = shift;

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

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

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

```



```

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

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

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

sub format_version
{
    my $ver = shift;

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

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

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

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

        return $ver;
    }

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

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

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

```

```

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

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

my %given_hints;
sub hint
{
    $opt{quiet} and return;
    $opt{hints} or return;
    my $func = shift;
    exists $hints{$func} or return;
    $given_hints{$func}++ and return;
    my $hint = $hints{$func};
    $hint =~ s/^/ /mg;
    print " --- hint for $func ---\n", $hint;
}

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

    print <<ENDUSAGE;

Usage: $usage

See perldoc $0 for details.

ENDUSAGE

exit 2;
}

__DATA__
*/

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

```

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abstract: Algorithm::Diff with XS core loop
author: Audrey Tang <cpan@audreyt.org>
distribution_type: module
generated_by: Module::Install version 0.67
license: perl
meta-spec:
 url: <http://module-build.sourceforge.net/META-spec-v1.3.html>
 version: 1.3
name: Algorithm-Diff-XS
no_index:
 directory:
 - inc
 - t
requires:
 Algorithm::Diff: 1.19
 perl: 5.6.0
 version: 0.01

Found in path(s):

* /libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/META.yml

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=head1 NAME

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

=head1 SYNOPSIS

```
# Drop-in replacement to Algorithm::Diff, but "compact_diff"  
# and C<LCSidx> will run much faster for large data sets.  
use Algorithm::Diff::XS qw( compact_diff LCSidx );
```

=head1 DESCRIPTION

This module is a simple re-packaging of Joe Schaefer's excellent but not very well-known L<Algorithm::LCS> with a drop-in interface that simply re-uses the installed version of the L<Algorithm::Diff> module.

Note that only the C<LCSidx> function is optimized in XS at the moment, which means only C<compact_diff> will get significantly faster for large data sets, while C<diff> and C<sdiff> will run in identical speed as C<Algorithm::Diff>.

=head1 BENCHMARK

	Rate	Algorithm::Diff	Algorithm::Diff::XS
Algorithm::Diff	14.7/s	--	-98%
Algorithm::Diff::XS	806/s	5402%	
	--		

The benchmarking script is as below:

```
my @data = ([qw/a b d/ x 50], [qw/b a d c/ x 50]);
cmpthese( 500, {
  'Algorithm::Diff' => sub {
    Algorithm::Diff::compact_diff(@data)
  },
  'Algorithm::Diff::XS' => sub {
    Algorithm::Diff::XS::compact_diff(@data)
  },
});
```

=head1 SEE ALSO

L<Algorithm::Diff>, L<Algorithm::LCS>.

=head1 AUTHORS

Audrey Tang E<lt>cpan@audreyt.orgE<gt>

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=cut

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

```
'GNU public license'          => 'gpl',      1,
'GNU lesser public license'    => 'gpl',      1,
'BSD license'                 => 'bsd',       1,
'proprietary'                 => 'proprietary', 0,
if ( $osi and $license_text =~ /All rights reserved/i ) {
  warn "LEGAL WARNING: 'All rights reserved' may invalidate Open Source licenses. Consider removing it.";
```

Found in path(s):

* /libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/inc/Module/Install/Metadata.pm

1.96 kerberos 1.17-6ubuntu4.1

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1.98 lsb 11.1.0ubuntu2

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Version 2.1, February 1999

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1.100 sysv-init 2.96-2.1ubuntu1

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1.101 glibc 2.31-0ubuntu9.2

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-*- org -*-

#+TITLE: List of code with permissive licenses as used by GnuPG.

#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.104 iconv 2.31

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

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

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

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

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

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

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

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

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

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

In addition,

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

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

This option is useful when you wish to copy part of the code of the

Library into a program that is not a library.

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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Here is a sample; alter the names:

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

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Version 3, 29 June 2007

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

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

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

TERMS AND CONDITIONS

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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an

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

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

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

1. Source Code.

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

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

The

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

produce the work, or an object code interpreter used to run it.

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

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

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section 10
makes it unnecessary.

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

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7. This requirement modifies the requirement in section 4 to

"keep intact all notices".

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

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

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

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from

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Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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the above
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1.105 libsodium 1.0.18

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1.106 scowl 2018.04.16-1

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Alan Beale <biljir@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification".

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Arcata, CA 95521-4884

grady@netcom.com
grady@northcoast.com

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Date: Sat, 08 Jul 2000 20:27:21
+0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

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> Wordlist With Frequency Classification" word list as it seems to
> be lacking any copyright notice.

There were many many sources in total, but any text marked "copyright" was avoided. Locally-written documentation was one source. An earlier version of the list resided in a filespace called PUBLIC on the University mainframe, because it was considered public domain.

Date: Tue, 11 Jul 2000 19:31:34 +0100

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That is the intention.

The 20 level includes frequency classes 7-15 from Brian's word list.

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1.107 debconf 1.5.73

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1.108 libalgorithm-diff-perl 1.19.03-2

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```
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#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#
# Altered to output in `context diff' format (but without context)
# September 1998 Christian Murphy (cpm@muc.de)
#
# Command-line arguments and context lines feature added
# September 1998 Amir D. Karger (karger@bead.aecom.yu.edu)
#
# In this file, "item" usually means "line of text", and "item number" usually
# means "line number". But theoretically the code could be used more generally
use strict;
```

```
use Algorithm::Diff qw(diff);
use File::stat;
use vars qw ($opt_C $opt_c $opt_u $opt_U);
use Getopt::Std;

my $usage = << "ENDUSAGE";
Usage: $0 [{-c | -u}] [{-C | -U} lines] oldfile newfile
  -c will do a context diff with 3 lines of context
  -C will do a context diff with 'lines' lines of context
  -u will do a unified diff with 3 lines of context
  -U will do a unified diff with 'lines' lines of context
ENDUSAGE
```

```
getopts("U:C:cu") or bag("$usage");
bag("$usage") unless @ARGV == 2;
my ($file1, $file2) = @ARGV;
if (defined $opt_C || defined $opt_c) {
    $opt_c = ""; # -c on if -C given on command line
```

```

    $opt_u = undef;
} elsif (defined $opt_U || defined $opt_u) {
    $opt_u = ""; # -u on if -U given on command line
    $opt_c = undef;
} else {
    $opt_c = ""; # by default, do context diff, not old diff
}

my ($char1, $char2); # string to print before file names
my $Context_Lines; # lines of context to print
if (defined $opt_c) {
    $Context_Lines = defined $opt_C ? $opt_C : 3;
    $char1 = '*' x 3; $char2 = '-' x 3;
} elsif (defined $opt_u) {
    $Context_Lines = defined $opt_U ? $opt_U : 3;
    $char1 = '-' x 3; $char2 = '+' x 3;
}

# After we've read up to a certain point in each file, the number of items
# we've read from each file will differ by $FLD (could be 0)
my
$File_Length_Difference = 0;

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
my (@f1, @f2);
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

# diff yields lots of pieces, each of which is basically a Block object
my $diffs = diff(\@f1, \@f2);
exit 0 unless @$diffs;

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

my ($hunk,$oldhunk);
# Loop over hunks. If a hunk overlaps with the last hunk, join them.
# Otherwise, print out the old one.
foreach my $piece (@$diffs) {
    $hunk = new Hunk ($piece, $Context_Lines);
    next unless $oldhunk;

    if ($hunk->does_overlap($oldhunk)) {

```

```

$hunk->prepend_hunk($oldhunk);
    } else {
$oldhunk->output_diff(\@f1, \@f2);
    }

} continue {
    $oldhunk = $hunk;
}

# print the last hunk
$oldhunk->output_diff(\@f1, \@f2);
exit 1;
# END MAIN PROGRAM

sub bag {
    my
    $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

# Package Hunk. A Hunk is a group of Blocks which overlap because of the
# context surrounding each block. (So if we're not using context, every
# hunk will contain one block.)
{
package Hunk;

sub new {
    # Arg1 is output from &LCS::diff (which corresponds to one Block)
    # Arg2 is the number of items (lines, e.g.,) of context around each block
    #
    # This subroutine changes $File_Length_Difference
    #
    # Fields in a Hunk:
    # blocks    - a list of Block objects
    # start     - index in file 1 where first block of the hunk starts
    # end       - index in file 1 where last block of the hunk ends
    #
    # Variables:
    # before_diff - how much longer file 2 is than file 1 due to all hunks
    #             until but NOT including this one
    # after_diff  - difference due to all hunks including this one
    my ($class, $piece, $context_items) = @_;

    my $block = new Block ($piece); # this modifies $FLD!

    my $before_diff = $File_Length_Difference;

```

```

# BEFORE this hunk
my $after_diff = $before_diff + $block->{"length_diff"};
$File_Length_Difference += $block->{"length_diff"};

# @remove_array and @insert_array hold the items to insert and remove
# Save the start & beginning of each array. If the array doesn't exist
# though (e.g., we're only adding items in this block), then figure
# out the line number based on the line number of the other file and
# the current difference in file lengths
my @remove_array = $block->remove;
my @insert_array = $block->insert;
my ($a1, $a2, $b1, $b2, $start1, $start2, $end1, $end2);
$a1 = @remove_array ? $remove_array[0 ]->{"item_no"} : -1;
$a2 = @remove_array ? $remove_array[-1]->{"item_no"} : -1;
$b1 = @insert_array ? $insert_array[0 ]->{"item_no"} : -1;
$b2 = @insert_array ? $insert_array[-1]->{"item_no"} : -1;

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

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

$hunk->flag_context($context_items);

return $hunk;
}

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

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

```

```

$hunk->{"start2"} -= $num_added;

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

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

    # Do I actually need to test both?
    return ($hunk->{"start1"} - $oldhunk->{"end1"} <= 1 ||
        $hunk->{"start2"} - $oldhunk->{"end2"} <= 1);
}

# Prepend hunk arg1 to hunk arg0
# Note that arg1 isn't updated! Only arg0 is.
sub prepend_hunk {
    my ($hunk, $oldhunk) = @_;

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

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

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

sub output_unified_diff {

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

    # Calculate item number range.

```

```

my $range1 = $hunk->unified_range(1);
my $range2 = $hunk->unified_range(2);
print "@@ -$range1 +$range2 @@\n";

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

foreach my $block (@{$hunk->{"blocks"}}) {
foreach my $item ($block->remove)
{
    my $op = $item->{"sign"}; # -
    my $offset = $item->{"item_no"} - $low + $num_added;
    $outlist[$offset] =~ s/^ /$op/;
    $num_removed++;
}
foreach my $item ($block->insert) {
    my $op = $item->{"sign"}; # +
    my $i = $item->{"item_no"};
    my $offset = $i - $hunk->{"start2"} + $num_removed;
    splice(@outlist,$offset,0,"$op$$fileref2[$i]");
    $num_added++;
}
}

map {s/$\n/} @outlist; # add \n's
print @outlist;

}

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

    print "*****\n";
    # Calculate item number range.
    my $range1 = $hunk->context_range(1);
    my $range2 = $hunk->context_range(2);

```

```

# Print out file 1 part for each block in context diff format if there are
# any blocks that remove items
print "*** $range1 ****\n";
my $low = $hunk->{"start1"};
my $hi = $hunk->{"end1"};
if (@blocklist = grep {$_->remove} @{$hunk->{"blocks"}}) {
my @outlist =
@fileref1[$low..$hi];
map {s/^/ /} @outlist; # assume it's just context
foreach my $block (@blocklist) {
    my $op = $block->op; # - or !
    foreach my $item ($block->remove) {
$outlist[$item->{"item_no"} - $low] =~ s/^/$op/;
    }
}
map {s/$\n/} @outlist; # add \n's
print @outlist;
}

print "--- $range2 ----\n";
$low = $hunk->{"start2"};
$hi = $hunk->{"end2"};
if (@blocklist = grep {$_->insert} @{$hunk->{"blocks"}}) {
my @outlist = @fileref2[$low..$hi];
map {s/^/ /} @outlist; # assume it's just context
foreach my $block (@blocklist) {
    my $op = $block->op; # + or !
    foreach my $item ($block->insert) {
$outlist[$item->{"item_no"} - $low] =~ s/^/$op/;
    }
}
map {s/$\n/} @outlist; # add \n's
print @outlist;
}
}

sub context_range {
# Generate a range of item numbers to print. Only print 1 number if the range
# has only one item in it. Otherwise, it's 'start,end'
my ($hunk, $flag) = @_;
my ($start, $end) = ($hunk->{"start$flag"}, $hunk->{"end$flag"});
$start++; $end++; # index from 1, not zero
my $range = ($start < $end) ? "$start,$end" : $end;
return $range;
}

sub unified_range {

```

```

# Generate a range of item numbers to print for unified diff
# Print number where block starts, followed by number of lines in the block
# (don't print number of lines if it's 1)
my ($hunk, $flag) = @_;
my ($start, $end) = ($hunk->{"start$flag"}, $hunk->{"end$flag"});
$start++; $end++; # index from 1, not zero
my $length = $end - $start + 1;
my $first = $length < 2 ? $end : $start; # strange, but correct...
my $range = $length == 1 ? $first : "$first,$length";
return $range;
}
} # end Package Hunk

```

```

# Package Block. A block is an operation removing, adding, or changing
# a group of items. Basically, this is just a list of changes, where each
# change adds or deletes a single item.
# (Change could be a separate class, but it didn't seem worth it)
{
package Block;
sub new {
# Input is
# a chunk from &Algorithm::LCS::diff
# Fields in a block:
# length_diff - how much longer file 2 is than file 1 due to this block
# Each change has:
# sign      - '+' for insert, '-' for remove
# item_no   - number of the item in the file (e.g., line number)
# We don't bother storing the text of the item
#
my ($class, $chunk) = @_;
my @changes = ();

# This just turns each change into a hash.
foreach my $item (@$chunk) {
my ($sign, $item_no, $text) = @$item;
my $hashref = {"sign" => $sign, "item_no" => $item_no};
push @changes, $hashref;
}

my $block = { "changes" => \@changes };
bless $block, $class;

$block->{"length_diff"} = $block->insert - $block->remove;
return $block;
}

```

```

# LOW LEVEL FUNCTIONS

```



```

sub op {
# what kind of block is this?
    my $block = shift;
    my $insert = $block->insert;
    my $remove = $block->remove;

    $remove && $insert and return '!';
    $remove and return '-';
    $insert and return '+';
    warn "unknown block type";
    return '^'; # context block
}

# Returns a list of the changes in this block that remove items
# (or the number of removals if called in scalar context)
sub remove { return grep {$_->{"sign"} eq '-'} @{$shift->{"changes"}}; }

# Returns a list of the changes in this block that insert items
sub insert { return grep {$_->{"sign"} eq '+'} @{$shift->{"changes"}}; }

} # end of package Block

```

Found in path(s):

* /libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/cdiff.pl

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

```

#!/usr/bin/perl
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#

```

```

use Algorithm::Diff qw(diff);

```

```

bag("Usage: $0 oldfile newfile") unless @ARGV == 2;

```

```

my ($file1, $file2) = @ARGV;

```

```

# -f $file1 or bag("$file1: not a regular file");

```

```

# -f $file2 or bag("$file2: not a regular file");

```

```

-T $file1 or bag("$file1: binary");

```

```

-T $file2 or bag("$file2: binary");

```

```

open (F1, $file1) or bag("Couldn't open $file1: $!");

```

```

open (F2, $file2) or bag("Couldn't open $file2: $!");
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

```

```

$diffs = diff(\@f1, \@f2);
exit 0 unless @$diffs;

```

```

foreach $chunk (@$diffs) {

```

```

    foreach $line (@$chunk) {
        my ($sign, $lineno, $text) = @$line;
        printf "%4d$sign %s\n", $lineno+1, $text;
    }
    print "-----\n";
}
exit 1;

```

```

sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

```

Found in path(s):

* /libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diff.pl

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

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

Found in path(s):

* /libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diffnew.pl

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

=head1 NAME

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

=head1 SYNOPSIS

```

require Algorithm::Diff;

```

This example produces traditional 'diff' output:

```

my $diff = Algorithm::Diff->new( \@seq1, \@seq2 );

```

```

$diff->Base( 1 ); # Return line numbers, not indices
while( $diff->Next() ) {
    next if $diff->Same();
    my $sep = "";
    if( ! $diff->Items(2) ) {
        printf "%d,%dd%d\n",
            $diff->Get(qw( Min1 Max1 Max2 ));
    } elsif( ! $diff->Items(1) ) {
        printf "%da%d,%d\n",
            $diff->Get(qw( Max1 Min2 Max2 ));
    } else {
        $sep = "---\n";
        printf "%d,%dc%d,%d\n",
            $diff->Get(qw( Min1 Max1 Min2 Max2 ));
    }
    print "< $_" for $diff->Items(1);
    print $sep;
    print "> $_" for $diff->Items(2);
}

```

Alternate interfaces:

```

use Algorithm::Diff qw(
    LCS LCS_length LCSIdx
    diff sdiff compact_diff
    traverse_sequences traverse_balanced );

@lcs = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
$count = LCS_length( \@seq1, \@seq2 );

( $seq1idxref, $seq2idxref ) = LCSIdx( \@seq1, \@seq2 );

```

Complicated interfaces:

```

@diffs = diff( \@seq1, \@seq2 );

@sdiffs = sdiff( \@seq1, \@seq2 );

@cdiffs = compact_diff( \@seq1, \@seq2 );

traverse_sequences(
    \@seq1,
    \@seq2,
    { MATCH => \&callback1,

```

```

        DISCARD_A => \&callback2,
        DISCARD_B => \&callback3,
    },
    \&key_generator,
    @extra_args,
);

```

```

traverse_balanced(
    \@seq1,
    \@seq2,
    { MATCH    => \&callback1,
      DISCARD_A => \&callback2,
      DISCARD_B => \&callback3,
      CHANGE   => \&callback4,
    },
    \&key_generator,
    @extra_args,
);

```

=head1 INTRODUCTION

(by
Mark-Jason Dominus)

I once read an article written by the authors of C<diff>; they said that they worked very hard on the algorithm until they found the right one.

I think what they ended up using (and I hope someone will correct me, because I am not very confident about this) was the 'longest common subsequence' method. In the LCS problem, you have two sequences of items:

a b c d f g h j q z

a b c d e f g i j k r x y z

and you want to find the longest sequence of items that is present in both original sequences in the same order. That is, you want to find a new sequence I<S> which can be obtained from the first sequence by deleting some items, and from the second sequence by deleting other items. You also want I<S> to be as long as possible. In this case I<S> is

a b c d f g j z

From there it's only a small step to get diff-like output:

```
e h i k q r x y
+ - + + - + + +
```

This module solves the LCS problem. It also includes a canned function to generate C<diff>-like output.

It might seem from the example above that the LCS of two sequences is always pretty obvious, but that's not always the case, especially when the two sequences have many repeated elements. For example, consider

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

A naive approach might start by matching up the C<a> and C that appear at the beginning of each sequence, like this:

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

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

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

or

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

=head1 USAGE

(See also the README file and several example scripts include with this module.)

This module now provides an object-oriented interface that uses less memory and is easier to use than most of the previous procedural interfaces. It also still provides several exportable functions. We'll deal with these in ascending order of difficulty: C<LCS>, C<LCS_length>, C<LCSidx>, OO interface, C<prepare>, C<diff>, C<sdiff>, C<traverse_sequences>, and C<traverse_balanced>.

=head2 C<LCS>

Given references to two lists of items, LCS returns an array containing

their longest common subsequence. In scalar context, it returns a reference to such a list.

```
@lcs = LCS( \@seq1, \@seq2 );  
$lcsref = LCS( \@seq1, \@seq2 );
```

C<LCS> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

```
@lcs = LCS( \@seq1, \@seq2, \&keyGen, @args );  
$lcsref = LCS( \@seq1, \@seq2, \&keyGen, @args );
```

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<LCS_length>

This is just like C<LCS> except it only returns the length of the longest common subsequence. This provides a performance gain of about 9% compared to C<LCS>.

=head2 C<LCSidx>

Like C<LCS> except it returns references to two arrays. The first array contains the indices into @seq1 where the LCS items are located. The second array contains the indices into @seq2 where the LCS items are located.

Therefore, the following three lists will contain the same values:

```
my( $idx1, $idx2 ) = LCSidx( \@seq1, \@seq2 );  
my @list1 = @seq1[ @$idx1 ];  
my @list2 = @seq2[ @$idx2 ];  
my @list3 = LCS( \@seq1, \@seq2 );
```

=head2 C<new>

```
$diff = Algorithm::Diffs->new( \@seq1, \@seq2 );  
$diff = Algorithm::Diffs->new( \@seq1, \@seq2, \%opts );
```

C<new> computes the smallest set of additions and deletions necessary to turn the first sequence into the second and compactly records them in the object.

You use the object to iterate over I<hunks>, where each hunk represents a contiguous section of items which should be added, deleted, replaced, or left unchanged.

=over 4

The following summary of all of the methods looks a lot like Perl code but some of the symbols have different meanings:

- [] Encloses optional arguments
- : Is followed by the default value for an optional argument
- | Separates alternate return results

Method summary:

```
$obj    = Algorithm::Diff->new( \@seq1, \@seq2, [ \%opts ] );
$pos    = $obj->Next( [ $count : 1 ] );
$revPos = $obj->Prev( [ $count : 1 ] );
$obj    = $obj->Reset( [ $pos : 0 ] );
$copy   = $obj->Copy( [ $pos, [ $newBase ] ] );
$oldBase = $obj->Base( [ $newBase ] );
```

Note that all of the following methods C<die> if used on an object that is "reset" (not currently pointing at any hunk).

```
$bits    = $obj->Diff( );
@items|$cnt = $obj->Same( );
@items|$cnt = $obj->Items( $seqNum );
@idxs|$cnt = $obj->Range( $seqNum, [ $base ] );
$minIdx   = $obj->Min( $seqNum, [ $base ] );
$maxIdx   = $obj->Max( $seqNum, [ $base ] );
@values   = $obj->Get( @names );
```

Passing in C<undef> for an optional argument is always treated the same as if no argument were passed in.

=item

C<Next>

```
$pos = $diff->Next(); # Move forward 1 hunk
$pos = $diff->Next( 2 ); # Move forward 2 hunks
$pos = $diff->Next(-5); # Move backward 5 hunks
```

C<Next> moves the object to point at the next hunk. The object starts out "reset", which means it isn't pointing at any hunk. If the object is reset, then C<Next()> moves to the first hunk.

C<Next> returns a true value iff the move didn't go past the last hunk. So C<Next(0)> will return true iff the object is not reset.

Actually, C<Next> returns the object's new position, which is a number

between 1 and the number of hunks (inclusive), or returns a false value.

=item C<Prev>

C<Prev(\$N)> is almost identical to C<Next(-\$N)>; it moves to the \$Nth previous hunk. On a 'reset' object, C<Prev()> [and C<Next(-1)>] move to the last hunk.

The position returned by C<Prev> is relative to the I<end> of the hunks; -1 for the last hunk, -2 for the second-to-last, etc.

=item C<Reset>

```
$diff->Reset(); # Reset the
object's position
$diff->Reset($pos); # Move to the specified hunk
$diff->Reset(1); # Move to the first hunk
$diff->Reset(-1); # Move to the last hunk
```

C<Reset> returns the object, so, for example, you could use
C<< \$diff->Reset()->Next(-1) >> to get the number of hunks.

=item C<Copy>

```
$copy = $diff->Copy( $newPos, $newBase );
```

C<Copy> returns a copy of the object. The copy and the original object share most of their data, so making copies takes very little memory. The copy maintains its own position (separate from the original), which is the main purpose of copies. It also maintains its own base.

By default, the copy's position starts out the same as the original object's position. But C<Copy> takes an optional first argument to set the new position, so the following three snippets are equivalent:

```
$copy = $diff->Copy($pos);

$copy = $diff->Copy();
$copy->Reset($pos);

$copy = $diff->Copy()->Reset($pos);
```

C<Copy> takes an optional second argument to set the base for the copy. If you wish to change the base of the copy but leave the position the same as in the original, here are two equivalent ways:


```
$copy = $diff->Copy();
```

```
$copy->Base( 0 );
```

```
$copy = $diff->Copy(undef,0);
```

Here are two equivalent way to get a "reset" copy:

```
$copy = $diff->Copy(0);
```

```
$copy = $diff->Copy()->Reset();
```

```
=item C<Diff>
```

```
$bits = $obj->Diff();
```

C<Diff> returns a true value iff the current hunk contains items that are different between the two sequences. It actually returns one of the follow 4 values:

```
=over 4
```

```
=item 3
```

C<3==(1|2)>. This hunk contains items from @seq1 and the items from @seq2 that should replace them. Both sequence 1 and 2 contain changed items so both the 1 and 2 bits are set.

```
=item 2
```

This hunk only contains items from @seq2 that should be inserted (not items from @seq1). Only sequence 2 contains changed items so only the 2 bit is set.

```
=item 1
```

This hunk only contains items from @seq1 that should be deleted (not items from @seq2). Only sequence 1 contains changed items so only the 1 bit is set.

```
=item 0
```

This means that the items in this hunk are the same in both sequences. Neither sequence 1 nor 2 contain changed items so neither the 1 nor the 2 bits are set.

```
=back
```

=item C<Same>

C<Same> returns a true value iff the current hunk contains items that are the same in both sequences. It actually returns the list of items if they are the same or an empty list if they aren't. In a scalar context, it returns the size of the list.

=item C<Items>

```
$count = $diff->Items(2);  
@items = $diff->Items($seqNum);
```

C<Items> returns the (number of) items from the specified sequence that are part of the current hunk.

If the current hunk contains only insertions, then

C<< \$diff->Items(1) >> will return an empty list (0 in a scalar context).

If the current hunk contains only deletions, then C<< \$diff->Items(2) >> will return an empty list (0 in a scalar context).

If the hunk contains replacements,

then both C<< \$diff->Items(1) >> and

C<< \$diff->Items(2) >> will return different, non-empty lists.

Otherwise, the hunk contains identical items and all of the following will return the same lists:

```
@items = $diff->Items(1);  
@items = $diff->Items(2);  
@items = $diff->Same();
```

=item C<Range>

```
$count = $diff->Range( $seqNum );  
@indices = $diff->Range( $seqNum );  
@indices = $diff->Range( $seqNum, $base );
```

C<Range> is like C<Items> except that it returns a list of I<indices> to the items rather than the items themselves. By default, the index of the first item (in each sequence) is 0 but this can be changed by calling the C<Base> method. So, by default, the following two snippets return the same lists:

```
@list = $diff->Items(2);  
@list = @seq2[ $diff->Range(2) ];
```

You can also specify the base to use as the second argument. So the following two snippets I<always> return the same lists:

```
@list = $diff->Items(1);
@list = @seq1[ $diff->Range(1,0)
];
```

=item C<Base>

```
$curBase = $diff->Base();
$oldBase = $diff->Base($newBase);
```

C<Base> sets and/or returns the current base (usually 0 or 1) that is used when you request range information. The base defaults to 0 so that range information is returned as array indices. You can set the base to 1 if you want to report traditional line numbers instead.

=item C<Min>

```
$min1 = $diff->Min(1);
$min = $diff->Min( $seqNum, $base );
```

C<Min> returns the first value that C<Range> would return (given the same arguments) or returns C<undef> if C<Range> would return an empty list.

=item C<Max>

C<Max> returns the last value that C<Range> would return or C<undef>.

=item C<Get>

```
( $n, $x, $r ) = $diff->Get(qw( min1 max1 range1 ));
@values = $diff->Get(qw( 0min2 1max2 range2 same base ));
```

C<Get> returns one or more scalar values. You pass in a list of the names of the values you want returned. Each name must match one of the following regexes:

```
/^( -?\d+ )?(min|max)[12]$/i
/^(range[12]|same|diff|base)$/i
```

The 1 or 2 after a name says which sequence you want the information for (and where allowed, it is required). The optional number before "min" or "max" is the base to use. So the following equalities hold:

```
$diff->Get('min1') == $diff->Min(1)
$diff->Get('0min2') == $diff->Min(2,0)
```

Using C<Get> in a scalar context when you've passed in more than one

name is a fatal error (C<die> is called).

=back

=head2 C<prepare>

Given a reference to a list of items, C<prepare> returns a reference to a hash which can be used when comparing this sequence to other sequences with C<LCS> or C<LCS_length>.

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

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

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

Using C<prepare> provides a performance gain of about 50% when calling LCS many times compared with not preparing.

=head2 C<diff>

```
@diffs    = diff( \@seq1, \@seq2 );
$diffs_ref = diff( \@seq1, \@seq2 );
```

C<diff> computes the smallest set of additions and deletions necessary to turn the first sequence into the second, and returns a description of these changes. The description is a list of I<hunks>; each hunk represents a contiguous section of items which should be added, deleted, or replaced. (Hunks containing unchanged items are not included.)

The return value of C<diff> is a list of hunks, or, in scalar context, a reference to such a list. If there are no differences, the list will be empty.

Here is an example. Calling C<diff> for the following two sequences:

```
a b c e h j l m n p
b c d e f j k l m r s t
```

would produce the following list:

```
(
  [ [ '-', 0, 'a' ] ],

  [ [ '+', 2, 'd' ] ],

  [ [ '-', 4, 'h' ],
    [ '+', 4, 'f' ] ],

  [ [ '+', 6, 'k' ] ],

  [ [ '-', 8, 'n' ],
    [ '-', 9, 'p' ],
    [ '+', 9, 'r' ],
    [ '+', 10, 's' ],
    [ '+', 11, 't' ] ],
)
```

There are five hunks here. The first hunk says that the C<a> at position 0 of the first sequence should be deleted (C<->). The second hunk says that the C<d> at position 2 of the second sequence should be inserted (C<+>). The third hunk says that the C<h> at position 4 of the first sequence should be removed and replaced with the C<f> from position 4 of the second sequence. And so on.

C<diff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<sdiff>

```
@sdiffs = sdiff( \@seq1, \@seq2 );
$sdiffs_ref = sdiff( \@seq1, \@seq2 );
```

C<sdiff>

computes all necessary components to show two sequences and their minimized differences side by side, just like the Unix-utility I<sdiff> does:

same		same
before		after
old	<	-
-	>	new

It returns a list of array refs, each pointing to an array of display instructions. In scalar context it returns a reference to such a list. If there are no differences, the list will have one entry per item, each indicating that the item was unchanged.

Display instructions consist of three elements: A modifier indicator (C<+>: Element added, C<->: Element removed, C<u>: Element unmodified, C<c>: Element changed) and the value of the old and new elements, to be displayed side-by-side.

An C<sdiff> of the following two sequences:

```
a b c e h j l m n p
b c d e f j k l m r s t
```

results in

```
( [ '-', 'a', " " ],
  [ 'u', 'b', 'b' ],
  [ 'u', 'c', 'c' ],
  [ '+', " ", 'd' ],
  [ 'u', 'e', 'e' ],
  [ 'c', 'h', 'f' ],
  [ 'u', 'j', 'j' ],
  [ '+', " ", 'k' ],
  [ 'u', 'l', 'l' ],
  [ 'u', 'm', 'm' ],
  [ 'c', 'n', 'r' ],
  [ 'c', 'p', 's' ],
  [ '+', " ", 't' ],
)
```

C<sdiff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<compact_diff>

C<compact_diff> is much like C<sdiff> except it returns a much more compact description consisting of just one flat list of indices. An

example helps explain the format:

```
my @a = qw( a b c e h j l m n p );
my @b = qw( b c d e f j k l m r s t );
@cdiff = compact_diff( \@a, \@b );
# Returns:
# @a    @b    @a    @b
# start start values values
( 0,    0, #    =
  0,    0, #    a !
  1,    0, #    b c = b c
  3,    2, #    ! d
  3,    3, #    e = e
  4,    4, #    f ! h
  5,    5, #    j = j
  6,    6, #    ! k
  6,    7, #    l m = l m
  8,    9, #    n p ! r s t
  10,   12, #
);
```

The 0th, 2nd, 4th, etc. entries are all indices into @seq1 (@a in the above example) indicating where a hunk begins. The 1st, 3rd, 5th, etc. entries are all indices into @seq2 (@b in the above example) indicating where the same hunk begins.

So each pair of indices (except the last pair) describes where a hunk begins (in each sequence). Since each hunk must end at the item just before the item that starts the next hunk, the next pair of indices can be used to determine where the hunk ends.

So, the first 4 entries (0..3) describe the first hunk. Entries 0 and 1 describe where the first hunk begins (and so are always both 0). Entries 2 and 3 describe where the next hunk begins, so subtracting 1 from each tells us where the first hunk ends. That is, the first hunk contains items

C<\$diff[0]> through C<\$diff[2] - 1> of the first sequence
and contains items C<\$diff[1]> through C<\$diff[3] - 1> of the second sequence.

In other words, the first hunk consists of the following two lists of items:

```
# 1st pair    2nd pair
# of indices  of indices
@list1 = @a[ $cdiff[0] .. $cdiff[2]-1 ];
@list2 = @b[ $cdiff[1] .. $cdiff[3]-1 ];
# Hunk start  Hunk end
```

Note that the hunks will always alternate between those that are part of the LCS (those that contain unchanged items) and those that contain changes. This means that all we need to be told is whether the first hunk is a 'same' or 'diff' hunk and we can determine which of the other hunks contain 'same' items or 'diff' items.

By convention, we always make the first hunk contain unchanged items. So the 1st, 3rd, 5th, etc. hunks (all odd-numbered hunks if you start counting from 1) all contain unchanged items. And the 2nd, 4th, 6th, etc. hunks (all even-numbered hunks if you start counting from 1) all contain changed items.

Since @a and @b don't begin with the same value, the first hunk in our example is empty (otherwise we'd violate the above convention). Note that the first 4 index values in our example are all zero. Plug these values into our previous code block and we get:

```
@hunk1a = @a[ 0 .. 0-1 ];  
@hunk1b = @b[ 0 .. 0-1 ];
```

And C<0..-1> returns the empty list.

Move down one pair of indices (2..5) and we get the offset ranges for the second hunk, which contains changed items.

Since C<@diff[2..5]> contains (0,0,1,0) in our example, the second hunk consists of these two lists of items:

```
@hunk2a = @a[ $cdiff[2] .. $cdiff[4]-1 ];  
@hunk2b = @b[ $cdiff[3] .. $cdiff[5]-1 ];  
# or  
@hunk2a = @a[ 0 .. 1-1 ];  
@hunk2b = @b[ 0 .. 0-1 ];  
# or  
@hunk2a = @a[ 0 .. 0 ];  
@hunk2b = @b[ 0 .. -1 ];  
# or  
@hunk2a = ( 'a' );  
@hunk2b = ( );
```

That is, we would delete item 0 ('a') from @a.

Since C<@diff[4..7]> contains (1,0,3,2) in our example, the third hunk consists of these two lists of items:

```
@hunk3a = @a[ $cdiff[4] .. $cdiff[6]-1 ];
```



```

    @hunk3a = @b[ $cdiff[5] .. $cdiff[7]-1 ];
# or
    @hunk3a = @a[ 1 .. 3-1 ];
    @hunk3a = @b[ 0 .. 2-1 ];
# or
    @hunk3a = @a[ 1 .. 2 ];
    @hunk3a = @b[ 0 .. 1 ];
# or
    @hunk3a = qw( b c );
    @hunk3a = qw( b c );

```

Note that this third hunk contains unchanged items as our convention demands.

You can continue this process until you reach the last two indices, which will always be the number of items in each sequence. This is required so that subtracting one from each will give you the indices to the last items in each sequence.

=head2 C<traverse_sequences>

C<traverse_sequences> used to be the most general facility provided by this module (the new OO interface is more powerful and much easier to use).

Imagine that there are two arrows. Arrow A points to an element of sequence A, and arrow B points to an element of the sequence B. Initially, the arrows point to the first elements of the respective sequences. C<traverse_sequences> will advance the arrows through the sequences one element at a time, calling an appropriate user-specified callback function before each advance. It will advance the arrows in such a way that if there are equal elements C<\$A[\$i]> and C<\$B[\$j]> which are equal and which are part of the LCS, there will be some moment during the execution of C<traverse_sequences> when arrow A is pointing to C<\$A[\$i]> and arrow B is pointing to C<\$B[\$j]>. When this happens, C<traverse_sequences> will call the C<MATCH> callback function and then it will advance both arrows.

Otherwise, one of the arrows is pointing to an element of its sequence that is not part of the LCS. C<traverse_sequences> will advance that arrow and will call the C<DISCARD_A> or the C<DISCARD_B> callback, depending on which arrow it advanced. If both arrows point to elements that are not part of the LCS, then C<traverse_sequences> will advance one of them and call the appropriate callback, but it is not specified which it will call.

The arguments to C<traverse_sequences> are the two sequences to

traverse, and a hash which specifies the callback functions, like this:

```
traverse_sequences(  
  \@seq1, \@seq2,  
  { MATCH => $callback_1,  
    DISCARD_A => $callback_2,  
    DISCARD_B => $callback_3,  
  }  
);
```

Callbacks for MATCH, DISCARD_A, and DISCARD_B are invoked with at least the indices of the two arrows as their arguments. They are not expected to return any values. If a callback is omitted from the table, it is not called.

Callbacks for A_FINISHED and B_FINISHED are invoked with at least the corresponding index in A or B.

If arrow A reaches the end of its sequence, before arrow B does, C<traverse_sequences> will call the C<A_FINISHED> callback when it advances arrow B, if there is such a function; if not it will call C<DISCARD_B> instead. Similarly if arrow B finishes first. C<traverse_sequences> returns when both arrows are at the ends of their respective sequences. It returns true on success and false on failure. At present there is no way to fail.

C<traverse_sequences> may be passed an optional fourth parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation function.

If you want to pass additional parameters to your callbacks, but don't need a custom key generation function, you can get the default by passing undef:

```
traverse_sequences(  
  \@seq1, \@seq2,  
  { MATCH => $callback_1,  
    DISCARD_A => $callback_2,  
    DISCARD_B => $callback_3,  
  },  
  undef, # default key-gen  
  $myArgument1,  
  $myArgument2,  
  $myArgument3,  
);
```

C<traverse_sequences> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head2 C<traverse_balanced>

C<traverse_balanced> is an alternative to C<traverse_sequences>. It uses a different algorithm to iterate through the entries in the computed LCS. Instead of sticking to one side and showing element changes as insertions and deletions only, it will jump back and forth between the two sequences and report I<changes> occurring as deletions on one side followed immediately by an insertion on the other side.

In addition to the C<DISCARD_A>, C<DISCARD_B>, and C<MATCH> callbacks supported by C<traverse_sequences>, C<traverse_balanced> supports a C<CHANGE> callback indicating that one element got C<replaced> by another:

```
traverse_balanced(  
  \@seq1, \@seq2,  
  { MATCH => $callback_1,  
    DISCARD_A => $callback_2,  
    DISCARD_B => $callback_3,  
    CHANGE  => $callback_4,  
  }  
);
```

If no C<CHANGE> callback is specified, C<traverse_balanced> will map C<CHANGE> events to C<DISCARD_A> and C<DISCARD_B> actions, therefore resulting in a similar behaviour as C<traverse_sequences> with different order of events.

C<traverse_balanced> might be a bit slower than C<traverse_sequences>, noticeable only while processing huge amounts of data.

The C<sdiff> function of this module is implemented as call to C<traverse_balanced>.

C<traverse_balanced> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head1 KEY GENERATION FUNCTIONS

Most of the functions accept an optional extra parameter. This is a CODE reference to a key generating (hashing) function that should return a string that uniquely identifies a given element. It should be the

case that if two elements are to be considered equal, their keys should be the same (and the other way around). If no key generation function is provided, the key will be the element as a string.

By default, comparisons will use "eq"
and elements will be turned into keys
using the default stringizing operator "".

Where this is important is when you're comparing something other than strings. If it is the case that you have multiple different objects that should be considered to be equal, you should supply a key generation function. Otherwise, you have to make sure that your arrays contain unique references.

For instance, consider this example:

```
package Person;

sub new
{
    my $package = shift;
    return bless { name => "", ssn => "", @_ }, $package;
}

sub clone
{
    my $old = shift;
    my $new = bless { %$old }, ref($old);
}

sub hash
{
    return shift()->{'ssn'};
}

my $person1 = Person->new( name => 'Joe', ssn => '123-45-6789' );
my $person2 = Person->new( name => 'Mary', ssn => '123-47-0000' );
my $person3 = Person->new( name => 'Pete', ssn => '999-45-2222' );
my $person4 = Person->new( name => 'Peggy', ssn => '123-45-9999' );
my $person5 = Person->new( name => 'Frank', ssn => '000-45-9999' );
```

If you did this:

```
my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4, $person5 ];
Algorithm::Diff::diff( $array1, $array2 );
```

everything would work out OK (each of the objects would be converted into a string like "Person=HASH(0x82425b0)" for comparison).

But if you did this:

```
my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::diff( $array1, $array2 );
```

\$person4 and \$person4->clone() (which have the same name and SSN) would be seen as different objects. If you wanted them to be considered equivalent, you would have to pass in a key generation function:

```
my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::diff( $array1, $array2, \&Person::hash );
```

This would use the 'ssn' field in each Person as a comparison key, and so would consider \$person4 and \$person4->clone() as equal.

You may also pass additional parameters to the key generation function if you wish.

=head1 ERROR CHECKING

If you pass these routines a non-reference and they expect a reference, they will die with a message.

=head1 AUTHOR

This version released by Tye McQueen (<http://perlmonks.org/?node=tye>).

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=head1 MAILING LIST

Mark-Jason still maintains a mailing list. To join a low-volume mailing list for announcements related to diff and Algorithm::Diff, send an empty mail message to mjd-perl-diff-request@plover.com.

=head1 CREDITS

Versions through 0.59 (and much of this documentation) were written by:

Mark-Jason Dominus, mjd-perl-diff@plover.com

This version borrows some documentation and routine names from Mark-Jason's, but Diff.pm's code was completely replaced.

This code was adapted from the Smalltalk code of Mario Wolczko <mario@wolczko.com>, which is available at <ftp://st.cs.uiuc.edu/pub/Smalltalk/MANCHESTER/manchester/4.0/diff.st>

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

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

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

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

=cut

Found in path(s):

* /libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/lib/Algorithm/Diff.pm

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

abstract: unknown

author:

- unknown

build_requires:

ExtUtils::MakeMaker: '0'

configure_requires:

ExtUtils::MakeMaker: '0'

dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 6.98, CPAN::Meta::Converter version 2.141170'

license: unknown

meta-spec:

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

version: '1.4'

name: Algorithm-Diff

no_index:

directory:

- t
- inc
requires: {}
version: '1.1903'

Found in path(s):
* /libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/META.yml

1.109 visual-studio-runtime 14.00.24210.0

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%% winjs version 4.4.0 (<https://github.com/winjs/winjs>)
=====
WinJS

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1. Seti UI - A subtle dark colored UI theme for Atom. (<https://github.com/jesseweed/seti-ui>)

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1.113 man-pages 5.05-1

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```
#!/bin/sh
#
# 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_parens_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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*/

/* checkTag : validation tool for libzstd

* command :

* \$./checkTag tag

* checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any}

* The tag is then compared to zstd version number.

* They are compatible if first 3 digits are identical.

* Anything beyond that is free, and doesn't impact validation.

* Example : tag v1.8.1.2 is compatible with version 1.8.1

* When tag and version are not compatible, program exits with error code 1.

* When they are compatible, it exists with a code 0.

* checkTag is intended to be used in automated testing environment.

*/

1.115 libtasn 4.16.0-2

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Version 2.1, February 1999

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```
#!/usr/bin/tclsh.docsrc
#### Import of wapp.tcl
# Copyright (c) 2017 D. Richard Hipp
#
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# modify it under the terms of the Simplified BSD License (also
# known as the "2-Clause License" or "FreeBSD License".)
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#
#-----
#
# Design rules:
#
# (1) All identifiers in the global namespace begin with "wapp"
#
# (2) Identifiers intended for internal use only begin with "wappInt"
#
# Add text to the end of the HTTP reply. No interpretation or transformation
# of the text is performed. The argument should be enclosed within {...}
#
```



```

proc wapp {txt} {
    global wapp
    dict append wapp .reply $txt
}

# Add
text to the page under construction. Do no escaping on the text.
#
# Though "unsafe" in general, there are uses for this kind of thing.
# For example, if you want to return the complete, unmodified content of
# a file:
#
#     set fd [open content.html rb]
#     wapp-unsafe [read $fd]
#     close $fd
#
# You could do the same thing using ordinary "wapp" instead of "wapp-unsafe".
# The difference is that wapp-safety-check will complain about the misuse
# of "wapp", but it assumes that the person who write "wapp-unsafe" understands
# the risks.
#
# Though occasionally necessary, the use of this interface should be minimized.
#
proc wapp-unsafe {txt} {
    global wapp
    dict append wapp .reply $txt
}

# Add text to the end of the reply under construction. The following
# substitutions are made:
#
#   %html(...)    Escape text for inclusion in HTML
#   %url(...)     Escape text for use as a URL
#   %qp(...)      Escape text for use as a URI query parameter
#
#   %string(...)  Escape text for use within a JSON string
#   %unsafe(...)  No transformations of the text
#
# The substitutions above terminate at the first ")" character. If the
# text of the TCL string in ... contains ")" characters itself, use instead:
#
#   %html%(...)%%
#   %url%(...)%%
#   %qp%(...)%%
#   %string%(...)%%
#   %unsafe%(...)%%
#
# In other words, use "%(...)%" instead of "(...)" to include the TCL string

```

```

# to substitute.
#
# The %unsafe substitution should be avoided whenever possible, obviously.
# In addition to the substitutions above, the text also does backslash
# escapes.
#
proc wapp-subst {txt} {
    global wapp
    regsub -all {% (html|url|qp|string|unsafe){1,1}? (|%) \((.+)\) \2} $txt \
        {[wappInt-enc-\1 "\3"]} txt
    dict append wapp .reply [uplevel 1 [list subst -novariables $txt]]
}

# Works like wapp-subst, but also removes whitespace from the beginning
# of lines.
#
proc wapp-trim {txt} {
    global wapp
    regsub -all {\n\s+} [string
    trim $txt] \n txt
    regsub -all {% (html|url|qp|string|unsafe){1,1}? (|%) \((.+)\) \2} $txt \
        {[wappInt-enc-\1 "\3"]} txt
    dict append wapp .reply [uplevel 1 [list subst -novariables $txt]]
}

# There must be a wappInt-enc-NAME routine for each possible substitution
# in wapp-subst. Thus there are routines for "html", "url", "qp", and "unsafe".
#
# wappInt-enc-html      Escape text so that it is safe to use in the
#                        body of an HTML document.
#
# wappInt-enc-url       Escape text so that it is safe to pass as an
#                        argument to href= and src= attributes in HTML.
#
# wappInt-enc-qp        Escape text so that it is safe to use as the
#                        value of a query parameter in a URL or in
#                        post data or in a cookie.
#
# wappInt-enc-string    Escape ", ', \, and < for using inside of a
#                        javascript string literal.
#                        The < character
#                        is escaped to prevent "</script>" from causing
#                        problems in embedded javascript.
#
# wappInt-enc-unsafe    Perform no encoding at all. Unsafe.
#
proc wappInt-enc-html {txt} {
    return [string map {& &amp; < &lt; > &gt; \" &quot; \\ &#92;} $txt]
}

```



```

    $str {[encoding convertfrom utf-8 [binary decode hex \1\2]]} str
    regsub -all -- {%([0-7][A-Fa-f0-9])} $str {\u00\1} str
    return [subst -novar $str]
}

```

```

# Reset the document back to an empty string.

```

```

#

```

```

proc
wapp-reset {} {
    global wapp
    dict set wapp .reply {}
}

```

```

# Change the mime-type of the result document.

```

```

#

```

```

proc wapp-mimetype {x} {
    global wapp
    dict set wapp .mimetype $x
}

```

```

# Change the reply code.

```

```

#

```

```

proc wapp-reply-code {x} {
    global wapp
    dict set wapp .reply-code $x
}

```

```

# Set a cookie

```

```

#

```

```

proc wapp-set-cookie {name value} {
    global wapp
    dict lappend wapp .new-cookies $name $value
}

```

```

# Unset a cookie

```

```

#

```

```

proc wapp-clear-cookie {name} {
    wapp-set-cookie $name {}
}

```

```

# Add extra entries to the reply header

```

```

#

```

```

proc wapp-reply-extra {name value} {
    global wapp
    dict lappend wapp .reply-extra $name $value
}

```

```

# Specifies how the web-page under construction should be cached.

```

```

# The argument should be one of:
#
# no-cache
# max-age=N          (for some integer number of seconds, N)
# private,max-age=N
#
proc wapp-cache-control {x} {
    wapp-reply-extra Cache-Control $x
}

# Redirect to a different web page
#
proc wapp-redirect {uri} {
    wapp-reply-code {307 Redirect}
    wapp-reply-extra
    Location $uri
}

# Return the value of a wapp parameter
#
proc wapp-param {name {dflt {}}} {
    global wapp
    if {![dict exists $wapp $name]} {return $dflt}
    return [dict get $wapp $name]
}

# Return true if a and only if the wapp parameter $name exists
#
proc wapp-param-exists {name} {
    global wapp
    return [dict exists $wapp $name]
}

# Set the value of a wapp parameter
#
proc wapp-set-param {name value} {
    global wapp
    dict set wapp $name $value
}

# Return all parameter names that match the GLOB pattern, or all
# names if the GLOB pattern is omitted.
#
proc wapp-param-list {{glob {*}}} {
    global wapp
    return [dict keys $wapp $glob]
}

```

```

# By default, Wapp does not decode query parameters and POST parameters
# for cross-origin requests. This is a security restriction, designed to
# help prevent cross-site request forgery (CSRF) attacks.
#
# As a consequence of this restriction, URLs for sites generated by Wapp
# that contain query parameters will not work as URLs
# found in other
# websites. You cannot create a link from a second website into a Wapp
# website if the link contains query planner, by default.
#
# Of course, it is sometimes desirable to allow query parameters on external
# links. For URLs for which this is safe, the application should invoke
# wapp-allow-xorigin-params. This procedure tells Wapp that it is safe to
# go ahead and decode the query parameters even for cross-site requests.
#
# In other words, for Wapp security is the default setting. Individual pages
# need to actively disable the cross-site request security if those pages
# are safe for cross-site access.
#
proc wapp-allow-xorigin-params {} {
    global wapp
    if {[dict exists $wapp .qp] && ![dict get $wapp SAME_ORIGIN]} {
        wappInt-decode-query-params
    }
}

# Set the content-security-policy.
#
# The default content-security-policy is very strict: "default-src 'self'"
# The default policy prohibits the use of in-line javascript or CSS.
#
# Provide an alternative
# CSP as the argument. Or use "off" to disable
# the CSP completely.
#
proc wapp-content-security-policy {val} {
    global wapp
    if {$val=="off"} {
        dict unset wapp .csp
    } else {
        dict set wapp .csp $val
    }
}

# Examine the bodys of all procedures in this program looking for
# unsafe calls to various Wapp interfaces. Return a text string
# containing warnings. Return an empty string if all is ok.
#

```

```

# This routine is advisory only. It misses some constructs that are
# dangerous and flags others that are safe.
#
proc wapp-safety-check {} {
    set res {}
    foreach p [info procs] {
        set ln 0
        foreach x [split [info body $p] \n] {
            incr ln
            if {[regexp {^[ \t]*wapp[ \t]+([\n]+)} $x all tail]
                && [string index $tail 0]!="\173"
                && [regexp {[[ $]} $tail]
            } {
                append res "$p:$ln: unsafe \"wapp\" call: \"[string trim $x]\"\\n"
            }
            if {[regexp {^[ \t]*wapp-(subst|trim)[ \t]+([\n]+)} $x all cx]} {
                append res "$p:$ln: unsafe \"wapp-$cx\"
            }
        }
        call: \"[string trim $x]\"\\n"
    }
}

# Return a string that describes the current environment. Applications
# might find this useful for debugging.
#
proc wapp-debug-env {} {
    global wapp
    set out {}
    foreach var [lsort [dict keys $wapp]] {
        if {[string index $var 0]=="."} continue
        append out "$var = [list [dict get $wapp $var]]\\n"
    }
    append out "[pwd] = [list [pwd]]\\n"
    return $out
}

# Tracing function for each HTTP request. This is overridden by wapp-start
# if tracing is enabled.
#
proc wappInt-trace {} {}

# Start up a listening socket. Arrange to invoke wappInt-new-connection
# for each inbound HTTP connection.
#
# port      Listen on this TCP port. 0 means to select a port
#           that is not currently in use

```

```

#
# wappmode      One of "scgi", "server", or "local".
#
proc wappInt-start-listener {port wappmode} {
    if {$wappmode=="scgi"} {
        set type SCGI
        set server [list wappInt-new-connection
wappInt-scgi-readable $wappmode]
    } else {
        set type HTTP
        set server [list wappInt-new-connection wappInt-http-readable $wappmode]
    }
    if {$wappmode=="local"} {
        set x [socket -server $server -myaddr 127.0.0.1 $port]
    } else {
        set x [socket -server $server $port]
    }
    set coninfo [chan configure $x -sockname]
    set port [lindex $coninfo 2]
    if {$wappmode=="local"} {
        wappInt-start-browser http://127.0.0.1:$port/
    } else {
        puts "Listening for $type requests on TCP port $port"
    }
}

# Start a web-browser and point it at $URL
#
proc wappInt-start-browser {url} {
    global tcl_platform
    if {$tcl_platform(platform)=="windows"} {
        exec cmd /c start $url &
    } elseif {$tcl_platform(os)=="Darwin"} {
        exec open $url &
    } elseif {[catch {exec xdg-open $url}]} {
        exec firefox $url &
    }
}

# This routine is a "socket -server" callback. The $chan, $ip, and $port
# arguments are added by the socket command.
#
# Arrange to invoke $callback when content is available
# on the new socket.
# The $callback will process inbound HTTP or SCGI content.
#
proc wappInt-new-connection {callback wappmode chan ip port} {
    upvar #0 wappInt-$chan W

```



```

set W [dict create REMOTE_ADDR $ip REMOTE_PORT $port WAPP_MODE $wappmode \
    .header {}]
fconfigure $chan -blocking 0 -translation binary
fileevent $chan readable [list $callback $chan]
}

# Close an input channel
#
proc wappInt-close-channel {chan} {
    if {$chan=="stdout"} {
        # This happens after completing a CGI request
        exit 0
    } else {
        unset ::wappInt-$chan
        close $chan
    }
}

# Process new text received on an inbound HTTP request
#
proc wappInt-http-readable {chan} {
    if {[catch [list wappInt-http-readable-unsafe $chan] msg]} {
        puts stderr "$msg\n$::errorInfo"
        wappInt-close-channel $chan
    }
}

proc wappInt-http-readable-unsafe {chan} {
    upvar #0 wappInt-$chan W wapp wapp
    if {[dict exists $W .toread]} {
        # If the .toread key is not set, that means we are still reading
        # the header
        set line [string trimright [gets $chan]]
        set n [string length $line]
        if {$n>0} {
            if {[dict get $W .header]=="" || [regexp {\^s+} $line]} {
                dict append W .header $line
            } else {
                dict append W .header \n$line
            }
        }
        if {[string length [dict get $W .header]]>100000} {
            error "HTTP request header too big - possible DOS attack"
        }
    } elseif {$n==0} {
        # We have reached the blank line that terminates the header.
        global argv0
        set a0 [file normalize $argv0]
        dict set W SCRIPT_FILENAME $a0
        dict set W DOCUMENT_ROOT [file dir $a0]
    }
}

```

```

    if {[wappInt-parse-header $chan]} {
        catch {close $chan}
        return
    }
    set len 0
    if {[dict exists $W CONTENT_LENGTH]} {
        set len [dict get $W CONTENT_LENGTH]
    }
    if {$len>0} {
        # Still need to read the query content
        dict set W .toread $len
    } else {
        # There is no query content, so handle
the request immediately
        set wapp $W
        wappInt-handle-request $chan 0
    }
} else {
    # If .toread is set, that means we are reading the query content.
    # Continue reading until .toread reaches zero.
    set got [read $chan [dict get $W .toread]]
    dict append W CONTENT $got
    dict set W .toread [expr {[dict get $W .toread]-[string length $got]}]
    if {[dict get $W .toread]<=0} {
        # Handle the request as soon as all the query content is received
        set wapp $W
        wappInt-handle-request $chan 0
    }
}
}

# Decode the HTTP request header.
#
# This routine is always running inside of a [catch], so if
# any problems arise, simply raise an error.
#
proc wappInt-parse-header {chan} {
    upvar #0 wappInt-$chan W
    set hdr [split [dict get $W .header] \n]
    if {$hdr==""} {return 1}
    set req [lindex $hdr 0]
    dict set W REQUEST_METHOD [set method [lindex $req 0]]
    if {[lsearch {GET HEAD POST} $method]<0} {
        error "unsupported request method:
\"[dict get $W REQUEST_METHOD]\""
    }
    set uri [lindex $req 1]

```

```

set split_uri [split $uri ?]
set uri0 [lindex $split_uri 0]
if {[regexp {^[-.a-z0-9_/*$} $uri0]} {
    error "invalid request uri: \"$uri0\""
}
dict set W REQUEST_URI $uri0
dict set W PATH_INFO $uri0
set uri1 [lindex $split_uri 1]
dict set W QUERY_STRING $uri1
set n [length $hdr]
for {set i 1} {$i<$n} {incr i} {
    set x [lindex $hdr $i]
    if {[regexp {^(.+):+(.*)$} $x all name value]} {
        error "invalid header line: \"$x\""
    }
    set name [string toupper $name]
    switch -- $name {
        REFERER {set name HTTP_REFERER}
        USER-AGENT {set name HTTP_USER_AGENT}
        CONTENT-LENGTH {set name CONTENT_LENGTH}
        CONTENT-TYPE {set name CONTENT_TYPE}
        HOST {set name HTTP_HOST}
        COOKIE {set name HTTP_COOKIE}
        ACCEPT-ENCODING {set name HTTP_ACCEPT_ENCODING}
        default {set name .hdr:$name}
    }
    dict set W $name $value
}
return 0
}

# Decode the QUERY_STRING
parameters from a GET request or the
# application/x-www-form-urlencoded CONTENT from a POST request.
#
# This routine sets the ".qp" element of the ::wapp dict as a signal
# that query parameters have already been decoded.
#
proc wappInt-decode-query-params {} {
    global wapp
    dict set wapp .qp 1
    if {[dict exists $wapp QUERY_STRING]} {
        foreach qterm [split [dict get $wapp QUERY_STRING] &] {
            set qsplit [split $qterm =]
            set nm [lindex $qsplit 0]
            if {[regexp {^[a-z][a-z0-9]*$} $nm]} {
                dict set wapp $nm [wappInt-decode-url [lindex $qsplit 1]]
            }
        }
    }
}

```

```

    }
  }
  if {[dict exists $wapp CONTENT_TYPE] && [dict exists $wapp CONTENT]} {
    set ctype [dict get $wapp CONTENT_TYPE]
    if {$ctype=="application/x-www-form-urlencoded"} {
      foreach qterm [split [string trim [dict get $wapp CONTENT]] &] {
        set qspllit [split $qterm =]
        set nm [lindex $qspllit 0]
        if {[regexp {[a-z][-a-z0-9_]*$} $nm]} {
          dict set wapp $nm [wappInt-decode-url
[lindex $qspllit 1]]
        }
      }
    }
    } elseif {[string match multipart/form-data* $ctype]} {
      regexp {^(.*?)\r\n(.*)$} [dict get $wapp CONTENT] all divider body
      set ndiv [string length $divider]
      while {[string length $body]} {
        set idx [string first $divider $body]
        set unit [string range $body 0 [expr {$idx-3}]]
        set body [string range $body [expr {$idx+$ndiv+2}] end]
        if {[regexp {^Content-Disposition: form-data; (.*)\r\n\r\n(.*)$} \
          $unit unit hdr content] &&
          [regexp {name="(.*)" ; filename="(.*)"\r\nContent-Type: (.*)$} \
            $hdr hr name filename mimetype]} {
          dict set wapp $name.filename \
            [string map [list \\" \" \\\" \\] $filename]
          dict set wapp $name.mimetype $mimetype
          dict set wapp $name.content $content
        }
      }
    }
  }
}

```

Invoke application-supplied methods to generate a reply to
a single HTTP request.

#

This routine always
runs within [catch], so handle exceptions by
invoking [error].

#

```

proc wappInt-handle-request {chan useCgi} {
  global wapp
  dict set wapp .reply {}
  dict set wapp .mimetype {text/html; charset=utf-8}
  dict set wapp .reply-code {200 Ok}
  dict set wapp .csp {default-src 'self'}
}

```

```

# Set up additional CGI environment values
#
if {[dict exists $wapp HTTP_HOST]} {
    dict set wapp BASE_URL {}
} elseif {[dict exists $wapp HTTPS]} {
    dict set wapp BASE_URL https://[dict get $wapp HTTP_HOST]
} else {
    dict set wapp BASE_URL http://[dict get $wapp HTTP_HOST]
}
if {[dict exists $wapp REQUEST_URI]} {
    dict set wapp REQUEST_URI /
} elseif {[regsub {\?.*} [dict get $wapp REQUEST_URI] {} newR]} {
    # Some servers (ex: nginx) append the query parameters to REQUEST_URI.
    # These need to be stripped off
    dict set wapp REQUEST_URI $newR
}
if {[dict exists $wapp SCRIPT_NAME]} {
    dict append wapp BASE_URL [dict get $wapp SCRIPT_NAME]
} else {
    dict set wapp
SCRIPT_NAME {}
}
if {[dict exists $wapp PATH_INFO]} {
    # If PATH_INFO is missing (ex: nginx) the construct it
    set URI [dict get $wapp REQUEST_URI]
    set skip [string length [dict get $wapp SCRIPT_NAME]]
    dict set wapp PATH_INFO [string range $URI $skip end]
}
if {[regexp {^([/]+)(.*)$} [dict get $wapp PATH_INFO] all head tail]} {
    dict set wapp PATH_HEAD $head
    dict set wapp PATH_TAIL [string trimleft $tail /]
} else {
    dict set wapp PATH_INFO {}
    dict set wapp PATH_HEAD {}
    dict set wapp PATH_TAIL {}
}
dict set wapp SELF_URL [dict get $wapp BASE_URL]/[dict get $wapp PATH_HEAD]

# Parse query parameters from the query string, the cookies, and
# POST data
#
if {[dict exists $wapp HTTP_COOKIE]} {
    foreach qterm [split [dict get $wapp HTTP_COOKIE] {;}] {
        set qsplit [split [string trim $qterm] =]
        set nm [lindex $qsplit 0]
        if {[regexp {[a-z][-a-z0-9_]*$} $nm]} {
            dict set wapp $nm [wappInt-decode-url [lindex

```

```

$qsplrit 1]]
    }
  }
}
set same_origin 0
if {[dict exists $wapp HTTP_REFERER]} {
  set referer [dict get $wapp HTTP_REFERER]
  set base [dict get $wapp BASE_URL]
  if {$referer==$base || [string match $base/* $referer]} {
    set same_origin 1
  }
}
dict set wapp SAME_ORIGIN $same_origin
if {$same_origin} {
  wappInt-decode-query-params
}

# Invoke the application-defined handler procedure for this page
# request. If an error occurs while running that procedure, generate
# an HTTP reply that contains the error message.
#
wapp-before-dispatch-hook
wappInt-trace
set mname [dict get $wapp PATH_HEAD]
if {[catch {
  if {$mname!="" && [llength [info proc wapp-page-$mname]]>0} {
    wapp-page-$mname
  } else {
    wapp-default
  }
} msg]} {
  if {[wapp-param WAPP_MODE]=="local" || [wapp-param WAPP_MODE]=="server"} {
    puts "ERROR: $::errorInfo"
  }
  wapp-reset
  wapp-reply-code "500 Internal Server Error"
  wapp-mimetype
text/html
  wapp-trim {
    <h1>Wapp Application Error</h1>
    <pre>%html($::errorInfo)</pre>
  }
  dict unset wapp .new-cookies
}

# Transmit the HTTP reply
#
if {$chan=="stdout"} {

```

```

    puts $chan "Status: [dict get $wapp .reply-code]\r"
} else {
    puts $chan "HTTP/1.1 [dict get $wapp .reply-code]\r"
    puts $chan "Server: wapp\r"
    puts $chan "Connection: close\r"
}
if {[dict exists $wapp .reply-extra]} {
    foreach {name value} [dict get $wapp .reply-extra] {
        puts $chan "$name: $value\r"
    }
}
if {[dict exists $wapp .csp]} {
    puts $chan "Content-Security-Policy: [dict get $wapp .csp]\r"
}
set mimetype [dict get $wapp .mimetype]
puts $chan "Content-Type: $mimetype\r"
if {[dict exists $wapp .new-cookies]} {
    foreach {nm val} [dict get $wapp .new-cookies] {
        if {[regexp {[a-z][-a-z0-9_]*$} $nm]} {
            if {$val==""} {
                puts $chan "Set-Cookie: $nm=; HttpOnly; Path=/; Max-Age=1\r"
            } else {
                set
            }
        }
    }
}
val [wappInt-enc-url $val]
    puts $chan "Set-Cookie: $nm=$val; HttpOnly; Path=/\r"
}
}
}
if {[string match text/* $mimetype]} {
    set reply [encoding convertto utf-8 [dict get $wapp .reply]]
    if {[regexp {\ygzip\y} [wapp-param HTTP_ACCEPT_ENCODING]]} {
        catch {
            set x [zlib gzip $reply]
            set reply $x
            puts $chan "Content-Encoding: gzip\r"
        }
    }
} else {
    set reply [dict get $wapp .reply]
}
puts $chan "Content-Length: [string length $reply]\r"
puts $chan \r
puts $chan $reply
flush $chan
wappInt-close-channel $chan
}

```

```

# This routine runs just prior to request-handler dispatch. The
# default implementation is a no-op, but applications can override
# to do additional transformations or checks.
#
proc wapp-before-dispatch-hook {} {return}

# Process a single CGI request
#
proc wappInt-handle-cgi-request {} {
    global wapp env
    foreach key {
        CONTENT_LENGTH
        CONTENT_TYPE
        DOCUMENT_ROOT
        HTTP_ACCEPT_ENCODING
        HTTP_COOKIE
        HTTP_HOST
        HTTP_REFERER
        HTTP_USER_AGENT
        HTTPS
        PATH_INFO
        QUERY_STRING
        REMOTE_ADDR
        REQUEST_METHOD
        REQUEST_URI
        REMOTE_USER
        SCRIPT_FILENAME
        SCRIPT_NAME
        SERVER_NAME
        SERVER_PORT
        SERVER_PROTOCOL
    } {
        if {[info exists env($key)]} {
            dict set wapp $key $env($key)
        }
    }
    set len 0
    if {[dict exists $wapp CONTENT_LENGTH]} {
        set len [dict get $wapp CONTENT_LENGTH]
    }
    if {$len>0} {
        configure stdin -translation binary
        dict set wapp CONTENT [read stdin $len]
    }
    dict set wapp WAPP_MODE cgi
    configure stdout -translation binary
    wappInt-handle-request stdout 1
}

```



```

# Process new text received on an inbound SCGI request
#
proc wappInt-scgi-readable {chan} {
  if {[catch [list wappInt-scgi-readable-unsafe $chan] msg]} {
    puts stderr "$msg\n$::errorInfo"
    wappInt-close-channel $chan
  }
}

proc wappInt-scgi-readable-unsafe {chan} {
  upvar #0 wappInt-$chan W wapp wapp
  if
    {[dict exists $W .toread]} {
      # If the .toread key is not set, that means we are still reading
      # the header.
      #
      # An SGI header is short. This implementation assumes the entire
      # header is available all at once.
      #
      set req [read $chan 15]
      set n [string length $req]
      scan $req %d:%s len hdr
      incr len [string length "$len;"]
      append hdr [read $chan [expr {$len-15}]]
      foreach {nm val} [split $hdr \000] {
        if {$nm==" "} break
        dict set W $nm $val
      }
      set len 0
      if {[dict exists $W CONTENT_LENGTH]} {
        set len [dict get $W CONTENT_LENGTH]
      }
      if {$len>0} {
        # Still need to read the query content
        dict set W .toread $len
      } else {
        # There is no query content, so handle the request immediately
        set wapp $W
        wappInt-handle-request $chan 0
      }
    } else {
      # If .toread is set, that means we are reading the query content.
      # Continue reading until .toread reaches zero.
      set got [read
$chan [dict get $W .toread]]
      dict append W CONTENT $got
      dict set W .toread [expr {[dict get $W .toread]-[string length $got]}]
      if {[dict get $W .toread]<=0} {

```

```

# Handle the request as soon as all the query content is received
set wapp $W
wappInt-handle-request $chan 0
}
}
}

# Start up the wapp framework. Parameters are a list passed as the
# single argument.
#
# -server $PORT      Listen for HTTP requests on this TCP port $PORT
#
# -local $PORT       Listen for HTTP requests on 127.0.0.1:$PORT
#
# -scgi $PORT        Listen for SCGI requests on TCP port $PORT
#
# -cgi               Handle a single CGI request
#
# With no arguments, the behavior is called "auto". In "auto" mode,
# if the GATEWAY_INTERFACE environment variable indicates CGI, then run
# as CGI. Otherwise, start an HTTP server bound to the loopback address
# only, on an arbitrary TCP port, and automatically launch a web browser
# on that TCP port.
#
# Additional
options:
#
# -trace            "puts" each request URL as it is handled, for
#                  debugging
#
# -lint             Run wapp-safety-check on the application instead
#                  of running the application itself
#
# -Dvar=value       Set TCL global variable "var" to "value"
#
#
proc wapp-start {arglist} {
    global env
    set mode auto
    set port 0
    set n [llength $arglist]
    for {set i 0} {$i<$n} {incr i} {
        set term [lindex $arglist $i]
        if {[string match --* $term]} {set term [string range $term 1 end]}
        switch -glob -- $term {
            -server {
                incr i;
                set mode "server"

```

```

    set port [lindex $arglist $i]
}
-local {
    incr i;
    set mode "local"
    set port [lindex $arglist $i]
}
-scgi {
    incr i;
    set mode "scgi"
    set port [lindex $arglist $i]
}
-cgi {
    set mode "cgi"
}
-trace {
    proc wappInt-trace {} {

set q [wapp-param QUERY_STRING]
    set uri [wapp-param BASE_URL][wapp-param PATH_INFO]
    if {$q!=""} {append uri ?$q}
    puts $uri
    }
}
-lint {
    set res [wapp-safety-check]
    if {$res!=""} {
        puts "Potential problems in this code:"
        puts $res
        exit 1
    } else {
        exit
    }
}
-D*==* {
    if {[regexp {\^\.D([^\=]+)=(.*)$} $term all var val]} {
        set ::$var $val
    }
}
default {
    error "unknown option: $term"
}
}
if {($mode=="auto"
    && [info exists env(GATEWAY_INTERFACE)]
    && [string match CGI/1.* $env(GATEWAY_INTERFACE)])
    || $mode=="cgi"

```

```

} {
    wappInt-handle-cgi-request
    return
}
if {$mode=="scgi"} {
    wappInt-start-listener $port scgi
} elseif {$mode=="server"} {
    wappInt-start-listener $port server
} else {
    wappInt-start-listener $port local
}
vwait ::forever
}

# Call this version
1.0
package provide wapp 1.0

#### End of wapp.tcl

# Generate all header content for the output document
#
proc search_header {} {
    wapp-trim {
<!DOCTYPE html>
<html><head>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
<link href="sqlite.css" rel="stylesheet">
<title>Search SQLite Documentation</title>
<!-- path= -->
</head>
<body>
<div class=nosearch>
<a href="index.html">

</a>
<div><!-- IE hack to prevent disappearing logo --></div>
<div class="tagline desktoponly">
Small. Fast. Reliable.<br>Choose any three.
</div>
<div class="menu mainmenu">
<ul>
<li><a href="index.html">Home</a>
<li class='mobileonly'><a href="javascript:void(0)" onclick='toggle_div("submenu")'>Menu</a>
<li class='wideonly'><a href='about.html'>About</a>
<li class='desktoponly'><a href="docs.html">Documentation</a>
<li class='desktoponly'><a href="download.html">Download</a>

```

```

<li
class='wideonly'><a href='copyright.html'>License</a>
<li class='desktoponly'><a href="support.html">Support</a>
<li class='desktoponly'><a href="prosupport.html">Purchase</a>
<li class='search' id='search_menubutton'>
<a href="javascript:void(0)" onclick='toggle_search()'>Search</a>
</ul>
</div>
<div class="menu submenu" id="submenu">
<ul>
<li><a href='about.html'>About</a>
<li><a href='docs.html'>Documentation</a>
<li><a href='download.html'>Download</a>
<li><a href='support.html'>Support</a>
<li><a href='prosupport.html'>Purchase</a>
</ul>
</div>
<div class="searchmenu" id="searchmenu">
<form method="GET" action="search">
<select name="s" id="searchtype">
<option value="d">Search Documentation</option>
<option value="c">Search Changelog</option>
</select>
<input type="text" name="q" id="searchbox" value="">
<input type="submit" value="Go">
</form>
</div>
</div>
<script>
function toggle_div(nm) {
var w = document.getElementById(nm);
if( w.style.display=="block"
){
w.style.display = "none";
}else{
w.style.display = "block";
}
}
function toggle_search() {
var w = document.getElementById("searchmenu");
if( w.style.display=="block" ){
w.style.display = "none";
} else {
w.style.display = "block";
setTimeout(function(){
document.getElementById("searchbox").focus()
}, 30);
}
}

```

```

}
function div_off(nm){document.getElementById(nm).style.display="none";}
window.onbeforeunload = function(e){div_off("submenu");}
/* Disable the Search feature if we are not operating from CGI, since */
/* Search is accomplished using CGI and will not work without it. */
if( !location.origin.match || !location.origin.match(/http/) ){
document.getElementById("search_menubutton").style.display = "none";
}
/* Used by the Hide/Show button beside syntax diagrams, to toggle the */
function hideorshow(btn,obj){
var x = document.getElementById(obj);
var b = document.getElementById(btn);
if( x.style.display!='none' ){
x.style.display = 'none';
b.innerHTML='show';
}else{
x.style.display
= "";
b.innerHTML='hide';
}
return false;
}
</script>
</div>
}
}

#-----
# Add an entry to the log database for the current query. Which
# returns $nRes results.
#
proc search_add_log_entry {nRes} {
if {[wapp-param-exists donotlog]} return
sqlite3 db2 [file dir [wapp-param SCRIPT_FILENAME]]/search.d/searchlog.db
db2 timeout 10000
set ip [wapp-param REMOTE_ADDR]
set query [wapp-param q]
db2 eval {
PRAGMA synchronous=OFF;
PRAGMA journal_mode=OFF;
BEGIN;
CREATE TABLE IF NOT EXISTS log(
ip,          -- IP query was made from
query,       -- Fts5 query string
nres,        -- Number of results
timestamp DEFAULT CURRENT_TIMESTAMP
);
INSERT INTO log(ip, query, nres) VALUES($ip, $query, $nRes);

```

```

    COMMIT;
}
db2 close
}

#-----
# This command
# is similar to the builtin Tcl [time] command, except that
# it only ever runs the supplied script once. Also, instead of returning
# a string like "xxx microseconds per iteration", it returns "x.yy ms" or
# "x.yy s", depending on the magnitude of the time spent running the
# command. For example:
#
# % ttime {after 1500}
# 1.50 s
# % ttime {after 45}
# 45.02 ms
#
proc ttime {script} {
    set t [lindex [time [list uplevel $script]] 0]
    if {$t>1000000} { return [format "%.2f s" [expr {$t/1000000.0}]] }
    return [format "%.2f ms" [expr {$t/1000.0}]]
}

#-----
# Do a search of the change log
#
proc searchchanges {} {
    set q [wapp-param q]
    if {$q==""} {return {}}
    if {[regexp -all \x22 $q] % 2} { append q \x22 }
    set x ""
    foreach word [split $q " "] {
        append x " "[string map [list "\" \"\""] $word]\\"
    }
    set q [string trim $x]
    set open {<span style="background-color:#d9f2e6">}
    set close {</span>}
    set query {
        SELECT url, version, idx, highlight(change, 3, $open, $close) AS text
        FROM change($q) ORDER BY rowid ASC
    }
    wapp-trim {
        <p>Change log entries mentioning: <b>%html($q)</b>
        <table border=0>
    }
    set s2 "style=\"margin-top:0\""
    set s1 "style=\"font-size:larger; text-align:left\" class=nounderline"

```

```

set prev ""
db eval $query {
  if {$prev!=$version} {
    wapp-trim {
      <tr> <td %unsafe($s1) valign=top> <a href='%url($url)'%>%html($version)</a>
      <td> <ul %unsafe($s2)>
    }
    set prev $version
  }
  wapp-subst { <li value=%html($idx)> (%html($idx)) %unsafe($text)\n }
}
wapp-trim {
  </table>
  <center><p>You can also see the <a href=changes.html>entire
  changelog as a single page</a> if you wish.</center>
}
}

#-----
# Do a search over all documentation other than the change log
#
proc searchresults {} {
  set q [wapp-param q]
  if {$q==""} {return
  ""}

  # Count the "" characters in $::A(q). If there is an odd number of
  # occurrences, add a " to the end of the query so that fts5 can parse
  # it without error.
  if {[regexp -all \x22 $q] % 2} { append q \x22 }

  # Set iStart to the index of the first result to display. Results are
  # indexed starting at zero from most to least relevant.
  #
  set iStart 0
  catch {set iStart [expr {[wapp-param i 0]*10}]}

  # Grab a list of rowid results.
  #
  set sql {
    SELECT rowid FROM page WHERE page MATCH $q
    ORDER BY srnk(page) DESC,
    rank * COALESCE(
      (SELECT percent FROM weight WHERE id=page.rowid), 100
    );
  }
  if {[catch { set lRowid [db eval $sql] }] } {
    set x ""
  }
}

```



```

foreach word [split $q " "] {
    append x "[string map [list "\" "\"\""] $word]"
}
set q [string trim $x]
set lRowid [db eval $sql]
}

set lRes [list]
foreach rowid $lRowid {
    if {$rowid > 1000} {
        set parent [expr $rowid / 1000]
        lappend subsections($parent)
    } else {
        lappend lRes $rowid
    }
}

set nRes [llength $lRes]
set lRes [lrange $lRes $iStart [expr $iStart+9]]

# Add an entry to the log database.
#
search_add_log_entry $nRes

# If there are no results, return a message to that effect.
#
if {[llength $lRes] == 0} {
    wapp-subst {<p>No Results for: <b>%html($q)</b><br>}
}

# HTML markup used to highlight keywords within FTS5 generated snippets.
#
set open {<span style="background-color:#d9f2e6">}
set close {</span>}
set ellipsis {<b>&nbsp;&nbsp;&nbsp;...&nbsp;&nbsp;&nbsp;</b>}

# Grab the required data
#
db eval [string map [list %LIST% [join $lRowid ,]] {
    SELECT
        rowid AS parentid,
        snippet(page, 0, $open, $close, $ellipsis, 6) AS s_apis,
        snippet(page, 2, $open, $close, ", 40) AS s_title1,
        snippet(page, 3, $open, $close, $ellipsis, 40) AS s_title2,
        snippet(page, 4, $open, $close, $ellipsis, 40) AS s_content,
        url, rank
    FROM page($q)
}

```

```

WHERE rowid
IN (%LIST%)
}} X {
  foreach k [array names X] { set data($X(parentid),$k) [set X($k)] }
}

set i1 [expr {$iStart+1}]
set i2 [expr {($nRes < $iStart+10) ? $nRes : $iStart+10}]
wapp-trim {
  <table border=0>
  <p>Search results %html($i1)..%html($i2) of %html($nRes) for: <b>%html($q)</b>
}

foreach rowid $lRes {

  foreach a {parentid s_apis s_title1 s_content url rank} {
    set $a $data($rowid,$a)
  }

  if {[info exists subsections($parentid)]} {
    set childid [lindex $subsections($parentid) 0]
    set link $data($childid,url)
    set hdr $data($childid,s_title2)

    if {$hdr==""} {
      set s_content ""
    } else {
      set s_content [subst {
        <b><a style=color:#044a64 href=$link>$hdr</a></b>
      }]
    }

    append s_content " $data($childid,s_content)"
  }

  wapp-trim {<tr>
    <td valign=top style="line-height:150%">
    <div style="white-space:wrap;font-size:larger" class=nounderline>
      <a href="%url($url)">%unsafe($s_title1)</a>

      <div style="float:right;font-size:smaller;color:#BBB">(%url($url))</div>
    </div>
    <div style="margin-left: 10ex; font:larger monospace">%unsafe($s_apis)</div>
    <div style="margin-left: 4ex; margin-bottom:1.5em">
      %unsafe($s_content)
    </div>
  </td>
}

```

```

}
wapp-subst {</table>\n}

# If the query returned more than 10 results, add up to 10 links to
# each set of 10 results (first link to results 1-10, second to 11-20,
# third to 21-30, as required).
#
if {$nRes>10} {
    set s(0) {border:solid #044a64 1px;padding:1ex;margin:1ex;line-height:300%;}
    set s(1) "$s(0);background:#044a64;color:white"
    wapp-subst {<center><p>\n}
    for {set i 0} {$i < 10 && ($i*10)<$nRes} {incr i} {
        set style $s([expr {(($iStart/10)==$i)})
        wapp-trim {
            <a style="%html($style)"
                href="search?q=%qp($q)&i=%qp($i)">%html([expr $i+1])</a>
        }
    }
    wapp-subst {</center>\n}
}
}

# This is the main entry point into the search result page generator
#
proc wapp-default {} {
    wapp-content-security-policy {default-src 'self' 'unsafe-inline'}
    wapp-allow-xorigin-params
    if {[wapp-param-exists env]} {
        search_header
        wapp-trim {
            <h1>Environment Dump For Debugging</h1>
            <pre>%html([wapp-debug-env])</pre>
        }
        return
    }
}

# When running using the built-in webserver in Wapp (in other words,
# when not running as CGI) any filename that contains a "." loads
# directly from the filesystem.
if {[wapp-param WAPP_MODE]!="cgi"
    && [string match *.* [wapp-param PATH_INFO]]
} {
    set altfile [file dir [wapp-param SCRIPT_FILENAME]][wapp-param PATH_INFO]
    set fd [open $altfile rb]
    fconfigure $fd -translation binary
    wapp-unsafe [read $fd]
    close $fd
}

```

```

switch -glob -- $Saltfile {
    *.html {
        wapp-mimetype text/html
    }
    *.css {
        wapp-mimetype text/css
    }
    *.gif {
        wapp-mimetype
image/gif
    }
}
return
}

search_header
sqlite3 db [file dir [wapp-param SCRIPT_FILENAME]]/search.d/search.db
set searchType [wapp-param s d]
if {$searchType=="c"} {
    set cmd searchchanges
} else {
    set cmd searchresults
}
db transaction {
    set t [time {$cmd}]
}
wapp-trim {
    <center>
    <p>Page generated by <a href='fts5.html'>FTS5</a> in about %html($t).
    </center>
    <script>
        window.addEventListener('load', function() {
            var w = document.getElementById("searchmenu");
            w.style.display = "block";
            w = document.getElementById("searchtype");
            w.value = "%string($searchType)"
            setTimeout(function(){
                var s = document.getElementById("searchbox");
                s.value = "%string([wapp-param q])"
                s.focus();
                s.select();
            }, 30);
        });
    </script>
}
}
wapp-start $argv

```

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/search

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

SQLite is high-quality, public domain software. The goal of members can also request their own private, proprietary extensions

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/consortium.html

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

<h2>SQLite Is Public Domain</h2>

Public Domain

public domain

the public domain and originals of

author, and all of those authors have public domain dedications

domain and ensure that the code does not become contaminated with proprietary

SQLite is in the public domain and does not require a license.

the public domain.

have the legal right to dedicate the SQLite to the public domain, and

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/copyright.html

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

public domain. No claim of ownership is made

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* /sqlite3-3-31-1-orig-www-1-tar-xz/www/faq.html

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<p>FOR IMMEDIATE RELEASE:</p>

<h2 align="center">SQLite Consortium Launches With Mozilla And Symbian As Charter Members</h2>

<h3 align="center">Ensures independent technical direction for world's most deployed SQL database engine</h3>

<p>Charlotte, North Carolina - December 12, 2007 - The SQLite Consortium, a new membership association dedicated to maintaining SQLite as a fully open and independent product, was formally announced today. Mozilla and Symbian Ltd. have joined the SQLite Consortium as charter members.<p>

<p>SQLite is a compact, high efficiency, high reliability, embeddable SQL database engine. The source code to SQLite is in the public domain and is available with

no associated fees. SQLite is the most deployed SQL database engine in the world and is currently used in a wide range of commercial software products and electronic devices from leading manufacturers.

SQLite is found today in many mobile phones, MP3 players, set-top boxes, and PCs.

The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in return receive enterprise-level technical support. Technical control and direction of SQLite remains entirely with the SQLite developers.

Mozilla, developer of the popular open-source Firefox web browser, and Symbian, the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset.

"SQLite has become a popular embedded database because it is lightweight, fast, and open source," said Michael Schroepfer, Vice President of Engineering, Mozilla. "As a charter member of the SQLite Consortium, Mozilla is excited to help ensure SQLite remains a vibrant and open technology, in line with our mission to promote choice and innovation on the Internet."

"The SQLite Consortium will help set the standards for database management which are essential in smartphone functionality and will also help create a pool of developers, highly-skilled in SQLite for future mobile phone development," said Bruce Carney, Director, Developer Programmes & Services, Symbian. "Our involvement with the SQL Consortium not only demonstrates Symbian's commitment to open standards in the industry, but as mobile phones become increasingly powerful and smartphones become increasingly popular, we are focused on ensuring that desktop developers, who move to the mobile space, have the easiest and most productive experience possible."

SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional information regarding the SQLite Consortium is available at the SQLite website, <http://www.sqlite.org/>.

###

About SQLite

SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for

SQLite is in the public domain and is free for any use, commercial or private.
SQLite is currently found in countless software titles and electronic devices.</p>

<p>SQLite was originally developed and released 2000 by Dr. D. Richard Hipp.
The code continues to be maintained and enhanced by an international team
of developers under Hipp's direction.</p>

<p>
CONTACT INFORMATION:

SQLite Consortium

Dr. D. Richard Hipp

6200 Maple Cove Lane

Charlotte, NC 28269

Email: drh@sqlite.org

<http://www.sqlite.org/>

Tel: +1.704.948.4565
</p>

<p>About Mozilla</p>

<p>Mozilla is a global community dedicated to building free, open source products
and technologies that improve the online experience for people everywhere.
Mozilla works in the open with a highly disciplined, transparent and cooperative
development process, under the umbrella of the non-profit Mozilla Foundation.
As a wholly owned subsidiary, the Mozilla Corporation organizes the development
and marketing of Mozilla products. This unique structure has enabled Mozilla to
financially support and cultivate competitive, viable community innovation.
For more information, visit www.mozilla.com.</p>

<p>CONTACT INFORMATION:

Mozilla Corporation

Jessica Waight

Tel: +1.415.345.4754

Email: jwaight@outcastpr.com
</p>

<p>About Symbian Limited</p>

<p>Symbian is a software licensing company that develops and licenses Symbian OS,
the market-leading open operating system for advanced, data-enabled mobile phones
known as smartphones.</p>

<p>Symbian licenses Symbian OS to the world's leading handset manufacturers
and has built close co-operative business

relationships with leading companies across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones were sold worldwide to over 250 major network operators, bringing the total number of Symbian smartphones shipped up to 30 September 2007 to 165 million.</p>

<p>Symbian has its headquarters in London, United Kingdom, with offices in the United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan. For more information, please visit www.symbian.com.</p>

<p>CONTACT INFORMATION:

Symbian Global Press Office

Karen Hamblen

+44 207 154 1707

press@symbian.com

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* /sqlite3-3-31-1-orig-www-1-tar-xz/www/pressrelease-20071212.html

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<title>SQLite Consortium Agreement</title>

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<h1 align="center">

SQLite Consortium Agreement

</h1>

<p>This SQLite Consortium Agreement ("Agreement") is made and entered into as of the ____ day of _____, 2007 ("Effective Date") by and between _____ (the "Company"), and Hipp, Wyrick & Company, Inc., a Georgia Corporation with headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").</p>

<p>WHEREAS, Hwaci is the developer of a serverless, embeddable, public domain SQL database engine available at <http://www.sqlite.org/> ("SQLite"); and</p>

<p>WHEREAS, Company wishes to support the independent development of the SQLite database engine to insure the continuing reliability, vitality, and independence of SQLite, and in connection therewith, Company wishes to provide funds for ongoing research, development, and

maintenance of the SQLite code base, operation of the SQLite website, protection and maintenance of the SQLite

trademark, as well as for promotion of SQLite at conferences and trade shows; and</p>

<p>WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and

<p>WHEREAS, Company and Hwaci each wish SQLite to be supported and maintained as an independent, community-driven project, and to ensure the SQLite development team remains independent.</p>

<p>NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:</p>

<h2>1.0 Definitions</h2>

<h3>1.1 SQLite Developers</h3>

<p>The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.</p>

<h3>1.2 SQLite Architect</h3>

<p>The "SQLite Architect" is the SQLite Developer with ultimate responsibility and authority over changes and maintenance of the SQLite code. The current SQLite Architect is the original designer and developer of SQLite, D. Richard Hipp. Hwaci may change the SQLite Architect from time to time upon approval by Company.</p>

<h3>1.3 Consortium Member</h3>

<p>A "Consortium Member" is a company or organization, including but not limited to Company, which has entered into an agreement with Hwaci which is substantially similar to this Agreement.</p>

<h2>2.0 Agreement</h2>

<h3>2.1 Responsibilities And Obligations Of SQLite Developers</h3>

<h4>2.1.1 General Support</h4>

<p>The SQLite Developers shall provide, without limit, timely and accurate answers, advice, and instruction in response to questions and comments from Company about SQLite submitted by email or by telephone at any time day or night.</p>

<h4>2.1.2 Debugging Support</h4>

The SQLite Developers shall at Company's request provide Company with direct assistance

in debugging applications that are built upon or use SQLite.

The combined

time for Debugging Support and Custom

Development for Company is limited to 330 hours per year.

</p>

<h4>2.1.3 Custom Development</h4>

<p>The SQLite Developers shall at the request of Company

write new extensions or enhancements

to SQLite according to Company's specifications. These extensions

and enhancements may be proprietary to Company or open source or

with the consent of both Company and the SQLite Architect may

be folded into the public domain SQLite source tree.

The time devoted to Custom Development for Company is limited 220 hours

per year.

</p>

<h4>2.1.4 Custom Builds</h4>

The SQLite Developers shall at Company's request provide Company

with specialized builds of SQLite according to Company's specifications.

</p>

<h4>2.1.5 Legacy Support</h4>

<p>The SQLite Developers shall at Company's request provide support

and bug-fix patches for any historical version of SQLite.

</p>

<h4>2.1.6 Custom Testing</h4>

<p>The SQLite Developers shall at Company's request set up and

run

acceptance tests according Company's specifications that are specifically
designed to exercise SQLite as configured and used by Company.

These acceptance tests shall be run and shall pass prior to any release
of SQLite.

</p>

<h4>2.1.7 Priority Bug Fixes</h4>

<p>The SQLite Developers shall assign highest priority to fixing bugs

in SQLite that are reported by Company or in which Company has

expressed a specific interest.

</p>

<h4>2.1.8 Code Quality</h4>

<p>The SQLite Developers shall at all times keep the SQLite source

code well commented and documented and clearly structured and

organized so that an experienced and competent programmer can

understand it and support it after no more than a few months of study.

</p>

<h4>2.1.9 Backwards Compatibility</h4>

<p>The SQLite Developers recognize that Company uses SQLite in mission-critical applications and therefore shall work diligently to ensure continuing bug-free correct operation and backwards compatibility with prior releases.

</p>

<h4>2.1.10

Test Coverage</h4>

<p>The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.

</p>

<h4>2.1.11 Website</h4>

<p>The SQLite Developers shall maintain the SQLite website at
http://www.sqlite.org/
in good working order and all SQLite source code shall be made freely available at such website.

</p>

<h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

<h4>2.2.1 Private Briefings</h4>

<p>The SQLite Architect shall, at the request of Company, provide Company with private notification and briefings of any new bugs or new features in SQLite that might effect Company's products.

</p>

<h4>2.2.2 Direction</h4>

<p>The SQLite Architect shall coordinate the activities of SQLite Developers and shall publish from time to time a roadmap of proposed future changes and enhancements to SQLite.

</p>

<h4>2.2.3 Oversight</h4>

<p>The SQLite Architect shall personally review all changes to the SQLite Source Code and take responsibility for the quality and correctness of those changes.

</p>

<h4>2.2.4 Continuity</h4>

<p>The initial SQLite Architect shall be the original developer of SQLite, D. Richard Hipp. The role of SQLite Architect shall not be assigned to another during the term of this Agreement except

due to the disability of Dr. Hipp and with approval of Company.

</p>

<h3>2.3 Responsibilities And Obligations Of Hwaci</h3>

<h4>2.3.1 Employer</h4>

<p>Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.

</p>

<h4>2.3.2 Responsible Party</h4>

<p>All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit, employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite

Developers set forth in this agreement are upheld.</p>

<h4>2.3.3 Multiple Developers</h4>

<p>Hwaci shall recruit and employ as many SQLite Developers for as many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement.

So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will keep at least two knowledgeable and competent SQLite Developers on staff.</p>

<h4>2.3.4 Mentorship</h4>

<p>Hwaci shall work to encourage independent programmers from around the world to become familiar with SQLite internals so that there will be a pool of talent able to support SQLite in the future.

</p>

<h4>2.3.5 Audits</h4>

<p>Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than once every 12 months, to inspect and make extracts or copies of such records solely for the purpose of ascertaining Hwaci's compliance with the objectives and requirements of this agreement.

</p>

<h4>2.3.6 Disaster Planning</h4>

<p>Hwaci shall maintain backup copies of all SQLite source files and documentation, current and historical, at at least two separate locations separated from each other and from the primary on-line SQLite repository by at least 400 kilometers.</p>

<h4>2.3.7 Trademark</h4>

<p>Hwaci shall maintain ownership of the SQLite trademark and the sqlite.org domain name and shall purchase bandwidth and server space for the http://www.sqlite.org/ website.</p>

<h4>2.3.8 No Take-overs or Buy-outs</h4>

<p>Neither Hwaci nor the SQLite Architect shall relinquish development control of SQLite during the term of this Agreement, by acquisition or merger or by any other means, except with the consent of Company.</p>

<h4>2.3.9

New Consortium Members</h4>

<p>New Consortium Members may be accepted into the consortium from time to time under identical terms as this agreement, or under substantially similar terms that have been approved by existing Consortium Members.</p>

<h4>2.3.10 Adequate Staff</h4>

Hwaci shall recruit and employ a sufficient number of qualified SQLite Developers to easily cover all custom development, debugging, and general support service obligations for all Consortium Members while still providing ample time for the SQLite Developers to engage in general maintenance and extension of SQLite.</p>

<h4>2.3.11 Use Of Funds</h4>

<p>Hwaci shall use the funds provided hereunder solely for the development and maintenance of SQLite as set forth in this Agreement. Interest on funds received in advance and held in trust will be reinvested and used for the same purposes as the principal.</p>

<h3>2.4 Responsibilities And Obligations Of Company</h3>

<h4>2.4.1 Funding</h4>

<p>Company

shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 "Fees".

</p>

<h4>2.4.2 Copyright Disclaimer</h4>

<p>Company acknowledges that SQLite source code and documentation published on the SQLite website is in the public domain and that nothing in this agreement shall change that fact.

</p>

<h2>3.0 Fees</h2>

<p>In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US \$75,000 per year in advance either annually, quarterly, or monthly, at Company's discretion.</p>

<h2>4.0 Confidentiality</h2>

<h3>4.1 Definition of Confidential Information</h3>

<p>"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.</p>

<h3>4.2 Non-Use and Non-Disclosure.</h3>

<p>Hwaci shall not, during or subsequent to the term of this Agreement, use Company's Confidential Information for any purpose whatsoever other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any Confidential Information, execute a nondisclosure agreement containing provisions in Company's

favor substantially similar to this Agreement. Confidential Information does not include information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.</p>

<h4>4.2.1 Disclosure Required by Law</h4>

In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of

taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise its reasonable efforts to narrow the scope of disclosure.</p>

<h3>4.3 Return of Materials.</h3>

<p>Upon the termination of this Agreement, or upon Company's earlier request, Hwaci shall deliver to Company all of Company's property or Confidential Information that Hwaci may have in Hwaci's possession or control.</p>

<h2>5.0 Intellectual Property</h2>

<h3>5.1 No Assignment</h3>

<p>Company acknowledges that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments,

discoveries and trade secrets made, generated, conceived, or reduced to practice by Hwaci related to SQLite will remain the property of Hwaci. Nothing in this Agreement will be construed to transfer any intellectual property right

of Hwaci to Company.</p>

<h3>5.2 Availability and Public Domain Dedication</h3>

<p>The SQLite Developers and Hwaci shall, subject to their discretion as to the quality and suitability of the SQLite source code and documentation for public release, make the SQLite source code and documentation publicly available as downloadable files and make a public statement ceding all intellectual property rights, including but not limited to copyright and patent rights, in the SQLite source code and documentation to the public domain. To the extent that the SQLite Developers and Hwaci elect not to release the SQLite source code and documentation publicly, they shall provide copies thereof to Company and hereby grants to Company, under all of the SQLite Developers' and Hwaci's rights including but not limited to copyright and patent rights, in and to the SQLite source code and documentation, perpetual, irrevocable, worldwide, non-exclusive, sublicenseable license to use, copy, prepare derivative works of, publicly perform and display the SQLite source code and documentation and derivative works thereof.</p>

<h3>5.3 Trademark</h3>

<p>Hwaci shall use the name "SQLite" only to apply to the publicly available project known by such name as of the Effective Date. Hwaci may in its discretion file such trademark applications or registrations as it deems appropriate to protect or record its rights therein, and may set such policies as it deems appropriate for licensing the use of the trademark.</p>

<h2>6.0 Representations And Warranties</h2>

<h3>6.1 Intellectual Property Clearances.</h3>

<p>Hwaci hereby represents and warrants that Hwaci shall enter into agreements with the SQLite Developers sufficient to enable Hwaci to

undertake the obligations of Section 5.</p>

<h3>6.2 Disclaimer.</h3>

<p>THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE, CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT. EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.</p>

<h2>7.0 Term And Termination</h2>

<h3>7.1 Term.</h3>

<p>This Agreement will commence on the Effective Date and will continue until 12 months after the Effective Date. Thereafter, the parties may by mutual consent renew this Agreement subject to agreement on fees to be paid by Company for sponsorship for additional periods.</p>

<h3>7.2 Termination.</h3>

<p>If either party materially defaults in the performance of any of its material obligations hereunder and if any such default is not corrected within 30 days after notice in writing, then the non-defaulting party, at its option, may, in addition to any other remedies it may have, thereupon terminate this Agreement by giving written notice of termination to the defaulting party.</p>

<h3>7.3 Survival.</h3>

<p>Upon such termination all rights and duties of the parties toward each other will cease except: Sections 4 (Confidentiality), 5 (Intellectual Property), and 8 (Miscellaneous) will survive termination of this Agreement.</p>

<h2>8. Miscellaneous</h2>

<h3>8.1 Nonassignment/Binding Agreement.</h3>

<p>The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the

parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.</p>

<h3>8.2 Notices.</h3>

<p>Any notice required or permitted under the terms of this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.</p>

<h3>8.3 Waiver.</h3>

<p>Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.</p>

<h3>8.4 Severability.</h3>

<p>If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.</p>

<h3>8.5 Integration.</h3>

<p>This Agreement contains the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications, representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter. This Agreement may not be amended, except by a writing signed by both parties.</p>

<h3>8.6 Counterparts.</h3>

<p>This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.</p>

<h3>8.7 Governing Law.</h3>

<p>This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof.</p>

<h3>8.8 Independent Contractors.</h3>

<p>It is the intention of the parties that Hwaci is an independent contractor. Nothing in this Agreement will in any way be construed to constitute Hwaci or any of its employees as an agent, employee or representative of Company.</p>

<h2>9.0 Signatures</h2>

<p>The parties have executed this Agreement below to indicate their acceptance of its terms.</p>

<table width="100%" border="0">

<tr><td valign="top">

HWACI

By:<hr>

<p> </p>

Print Name:<hr>

<p> </p>

Title:<hr>

<p> </p>

</td><td

width="10%"></td>

<td valign="top">

COMPANY

By:<hr>

<p> </p>

Print Name:<hr>

<p> </p>

Title:<hr>

<p> </p>

</td></tr></table>

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/consortium_agreement-20071201.html

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

SQLite core and like the SQLite core are in the public domain. The

The TH3 test harness is a set of proprietary tests, written in

<p>Beginning in late 2018, SQLite has been fuzzed using a new proprietary

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/testing.html

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

is free to use SQLite from multiple threads, but it must make sure

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/custombuild.html

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

SQLite is open source, and is available in the public domain

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/books.html

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

SQLite is in the public domain. This document describes what that means

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/docs.html

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

If N>0 then the connection is free to use more of the WAL file beyond

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/walformat.html

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

<html>

<title>SQLite Copyright Release Template</title>

<body bgcolor="white">

<h1 align="center">

Copyright Release for

Contributions To SQLite

</h1>

<p>

SQLite is software that implements an embeddable SQL database engine.

SQLite is available for free download from <http://www.sqlite.org/>.

The principal author and maintainer of SQLite has disclaimed all copyright interest in his contributions to SQLite

and thus released his contributions into the public domain.

In order to keep the SQLite software unencumbered by copyright claims, the principal author asks others who may from time to time contribute changes and enhancements to likewise disclaim their own individual copyright interest.

</p>

<p>

Because the SQLite software found at <http://www.sqlite.org/> is in the public domain, anyone is free to download the SQLite software from that website, make changes to the software, use, distribute, or sell the modified software,

under either the original name or

under some new name, without any need to obtain permission, pay royalties, acknowledge the original source of the software, or

in any other way compensate, identify, or notify the original authors.

Nobody is in any way compelled to contribute their SQLite changes and enhancements back to the SQLite website. This document concerns only changes and enhancements to SQLite that are intentionally and deliberately contributed back to the SQLite website.

</p>

<p>

For the purposes of this document, "SQLite software" shall mean any computer source code, documentation, makefiles, test scripts, or other information that is published on the SQLite website, <http://www.sqlite.org/>. Precompiled binaries are excluded from the definition of "SQLite software" in this document because the process of compiling the software may introduce information from outside sources which is not properly a part of SQLite.

</p>

<p>

The header comments on the SQLite source files exhort the reader to share freely and to never take more than one gives. In the spirit of that exhortation I make the following declarations:

</p>

<p>

I dedicate to the public domain any and all copyright interest in the SQLite software that was publicly available on the SQLite website (<http://www.sqlite.org/>) prior to the date of the signature below and any changes or enhancements to the SQLite software that I may cause to be published on that website in the future. I make this dedication for the benefit of the public at large and to the detriment of my heirs and successors. I intend this dedication to be an overt act of relinquishment in perpetuity of all present and future rights to the SQLite software under copyright law.

</p>

<p>

To the best of my knowledge and belief, the changes and enhancements that I have contributed to SQLite are either originally written by me or are derived from prior works which I have verified are also in the public domain and are not subject to claims of copyright by other parties.

</p>

<p>

To the best of my knowledge and belief, no individual, business, organization, government, or other entity has any copyright interest in the SQLite software as it existed on the SQLite website as of the date on the signature line below.

</p>

<p>

I agree never to publish any additional information to the SQLite website (by CVS, email, scp, FTP, or any other means) unless that information is an original work of authorship by me or is derived from prior published versions of SQLite.

I agree never to copy and paste code into the SQLite code base from other sources.

I agree never to publish on the SQLite website any information that would violate a law or breach a contract.

</p>

<p>

<table width="100%" cellpadding="0" cellspacing="0">

<tr>

<td width="60%" valign="top">

Signature:

<p> </p>

<p> </p>

<p> </p>

</td><td valign="top" align="left">

Date:

</td></tr>

<td colspan=2>

Name

(printed):

</td>

</tr>

</table>

</body>

</html>

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/copyright-release.html

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

<h2>Proprietary SQLite Extensions</h2>

public domain. But there also exist proprietary, licensed extensions to SQLite.</p>

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/support.html

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

<p>SQLite itself is in the public domain and can be used for any purpose. But TH3 is proprietary and requires a license.

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/th3.html

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

application is free to use the same [database connection](../c3ref/sqlite3.html) or the

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/c3ref/c_config_covering_index_scan.html

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

[public domain](copyright.html) and so most

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/famous.html

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

Public domain

The source code for SQLite is in the public domain. No claim of copyright

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/different.html

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

other proprietary or non-standard VFSes.

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/uri.html

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

public domain.

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/changes.html

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

Sources are in the [public domain](copyright.html).
or some proprietary format into

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/features.html

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

[Public domain source code](copyright.html)

[public domain](copyright.html) and is thus free for

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/about.html

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

without a shared lock, other processes are free to modify the database

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/atomiccommit.html

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

<dd><p>The psow query parameter works with the default windows and unix VFSes but might be a no-op for other proprietary or non-standard VFSes.

<dd><p>One might, for example, want to query all objects that overlap with the 35th parallel: SELECT id FROM demo_index WHERE maxY>=35.0 AND minY<=35.0; But, generally speaking, the more constraints that the R*Tree module has to work with, and the smaller the bounding box, the faster the results will come back. 3.4.

Roundoff Error By default, coordinates are stored in an R*Tree using 32-bit floating point values. When a coordinate cannot be exactly represented by a 32-bit floating point number, the lower-bound coordinates are rounded down and the upper-bound coordinates are rounded up. Thus, bounding boxes might be slightly larger than specified, but will never be any smaller. This is exactly what is desired for doing the more common "overlapping" queries where the application

wants to find every entry in the R*Tree that overlaps a query bounding box. Rounding the entry bounding boxes outward might cause a few extra entries to appear in an overlapping query if the edge of the entry bounding box corresponds to an edge of the query bounding box. But the overlapping query will never miss a valid table entry. However, for a "contained-within" style query, rounding the bounding boxes outward might cause some entries to be excluded from the result set if the edge of the entry bounding box corresponds to the edge of the query bounding box. To guard against this, applications should expand their contained-within query boxes slightly (by 0.000012%) by rounding down the lower coordinates and rounding up the top coordinates, in each dimension. 3.5. Reading And Writing At The Same Time It is the nature of the Guttman R-Tree algorithm that any write might radically restructure the tree, and in the process change the scan order of the nodes. For this reason, it is not generally possible to modify the R-Tree in the middle of a query of the R-Tree. Attempts to do so will fail with a SQLITE_LOCKED "database table is locked" error. So, for example, suppose an application runs one query against an R-Tree like this: SELECT id FROM demo_index WHERE maxY>=35.0 AND minY<=35.0; Then for each "id" value returned, suppose the application creates an UPDATE statement like the following and binds the "id" value returned against the "?1" parameter: UPDATE demo_index SET maxY=maxY+0.5 WHERE id=?1; Then the UPDATE might fail with an SQLITE_LOCKED error. The reason is that the initial query has not run to completion. It is remembering its place in the middle of a scan of the R-Tree. So an update to the R-Tree cannot be tolerated as this would disrupt the scan. It is also possible to express this kind of simultaneous read and write on an R-Tree within a single query, for example if an UPDATE statement tries to change the value of one row of the R-Tree based on a complicated

query from another row of the same R-Tree, perhaps something like this: UPDATE demo_index SET maxY = (SELECT max(maxX) FROM demo_index AS x2 WHERE x2.maxY>demo_index.x2) WHERE maxY>=35.0 AND minY<=35.0; This is a limitation of the R-Tree extension only. Ordinary tables in SQLite are able to read and write at the same time. Other virtual tables might (or might not) also have that capability. And R-Tree can appear to read and write at the same time in some circumstances, if it can figure out how to reliably run the query to completion before starting the update. But you shouldn't count on that for every query. Generally speaking, it is best to avoid running queries and updates to the same R-Tree at the same time. If you really need to update an R-Tree based on complex queries against the same R-Tree, it is best to run the complex queries first and store the results in a temporary table, then update the R-Tree based on the values stored in the temporary table. 4. Using R*Trees Effectively

For SQLite versions prior to 3.24.0 (2018-06-04), the only information that an R*Tree index stores about an object is its integer ID and its bounding box. Additional information needs to be stored in separate tables and related to the

R*Tree index using the primary key. For the example above, one might create an auxiliary table as follows:
 CREATE TABLE demo_data(id INTEGER PRIMARY KEY, -- primary key objname TEXT, -- name of the object
 objtype TEXT, -- object type boundary BLOB -- detailed boundary of object); In this example, the
 demo_data.boundary field is intended to hold some kind of binary representation of the precise boundaries of the
 object. The R*Tree index only holds an axis-aligned rectangular boundary for the object. The R*Tree boundary is
 just an approximation of the true object boundary. So what typically happens is that the R*Tree index is used to
 narrow a search down to a list of candidate objects and then more detailed and expensive computations are done on
 each candidate

to find if the candidate truly meets the search criteria. Key Point: An R*Tree index does not normally provide the
 exact answer but merely reduces the set of potential answers from millions to dozens. Suppose the
 demo_data.boundary field holds some proprietary data description of a complex two-dimensional boundary for an
 object and suppose that the application has used the sqlite3_create_function() interface to created application-
 defined functions "contained_in" and "overlaps" accepting two demo_data.boundary objects and return true or false.
 One may assume that "contained_in" and "overlaps" are relatively slow functions that we do not want to invoke too
 frequently. Then an efficient way to find the name of all objects located within the North Carolina 12th District, one
 may be to run a query like this: SELECT objname FROM demo_data, demo_index WHERE
 demo_data.id=demo_index.id AND contained_in(demo_data.boundary, :boundary) AND minX>=-81.0 AND
 maxX<=-79.6 AND minY>=35.0 AND maxY>=36.2;

In the query above, one would presumably bind the binary BLOB description of the precise boundary of the 12th
 district to the ":boundary" parameter. Notice how the query above works: The R*Tree index runs in the outer loop to
 find entries that are contained within the bounding box of longitude -81..-79.6 and latitude 35.0..36.2. For each
 object identifier found, SQLite looks up the corresponding entry in the demo_data table. It then uses the boundary
 field from the demo_data table as a parameter to the contained_in() function and if that function returns true, the
 objname field from the demo_data table is returned as the next row of query result. One would get the same answer
 without the use of the R*Tree index using the following simpler query: SELECT objname FROM demo_data
 WHERE contained_in(demo_data.boundary, :boundary); The problem with this latter query is that it must apply the
 contained_in() function to millions of entries in the demo_data table. The use of the R*Tree

in the penultimate query reduces the number of calls to contained_in() function to a small subset of the entire table.
 The R*Tree index did not find the exact answer itself, it merely limited the search space. 4.1. Auxiliary Columns
 Beginning with SQLite version 3.24.0 (2018-06-04), r-tree tables can have auxiliary columns that store arbitrary
 data. Auxiliary columns can be used in place of secondary tables such as "demo_data". Auxiliary columns are
 marked with a "+" symbol before the column name. Auxiliary columns must come after all of the coordinate
 boundary columns. There is a limit of no more than 100 auxiliary columns. The following example shows an r-tree
 table with auxiliary columns that is equivalent to the two tables "demo_index" and "demo_data" above: CREATE
 VIRTUAL TABLE demo_index2 USING rtree(id, -- Integer primary key minX, maxX, -- Minimum and maximum
 X coordinate minY, maxY, -- Minimum and maximum Y coordinate +objname TEXT, -- name of the object
 +objtype TEXT, -- object
 type +boundary BLOB -- detailed boundary of object);

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/requirements.html

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

Suppose the demo_data.boundary field holds some proprietary data description

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/rtree.html

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

application code is free to use these routines as well, if desired.

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/34to35.html

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

access to all proprietary extensions and test suites.

access to all proprietary extensions and test suites.

public domain,

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/prosupport.html

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

```
#!/usr/bin/tclsh.docsrc
```

```
#### Import of wapp.tcl
```

```
# Copyright (c) 2017 D. Richard Hipp
```

```
#
```

```
# This program is free software; you can redistribute it and/or
```

```
# modify it under the terms of the Simplified BSD License (also
```

```
# known as the "2-Clause License" or "FreeBSD License".)
```

```
#
```

```
# 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.
```

```
#
```

```
#-----
```

```
#
```

```
# Design rules:
```

```
#
```

```
# (1) All identifiers in the global namespace begin with "wapp"
```

```
#
```

```
# (2) Identifiers intended for internal use only begin with "wappInt"
```

```
#
```

```
# Add text to the end of the HTTP reply. No interpretation or transformation
```

```
# of the text is performed. The argument should be enclosed within {...}
```

```
#
```

```
proc wapp {txt} {
```

```
    global wapp
```

```
    dict append wapp .reply $txt
```

```
}
```

```
# Add
```

```
text to the page under construction. Do no escaping on the text.
```

```
#
```

```

# Though "unsafe" in general, there are uses for this kind of thing.
# For example, if you want to return the complete, unmodified content of
# a file:
#
#     set fd [open content.html rb]
#     wapp-unsafe [read $fd]
#     close $fd
#
# You could do the same thing using ordinary "wapp" instead of "wapp-unsafe".
# The difference is that wapp-safety-check will complain about the misuse
# of "wapp", but it assumes that the person who write "wapp-unsafe" understands
# the risks.
#
# Though occasionally necessary, the use of this interface should be minimized.
#
proc wapp-unsafe {txt} {
    global wapp
    dict append wapp .reply $txt
}

# Add text to the end of the reply under construction. The following
# substitutions are made:
#
#   %html(...)    Escape text for inclusion in HTML
#   %url(...)     Escape text for use as a URL
#   %qp(...)      Escape text for use as a URI query parameter
#
#   %string(...)  Escape text for use within a JSON string
#   %unsafe(...)  No transformations of the text
#
# The substitutions above terminate at the first ")" character. If the
# text of the TCL string in ... contains ")" characters itself, use instead:
#
#   %html%(...)%%
#   %url%(...)%%
#   %qp%(...)%%
#   %string%(...)%%
#   %unsafe%(...)%%
#
# In other words, use "%(...)%" instead of "(...)" to include the TCL string
# to substitute.
#
# The %unsafe substitution should be avoided whenever possible, obviously.
# In addition to the substitutions above, the text also does backslash
# escapes.
#
proc wapp-subst {txt} {
    global wapp

```

```

regsub -all {% (html|url|qp|string|unsafe){1,1}?(|%)\\((.+)\\)\2} $txt \
    {[wappInt-enc-\1 "\3"]} txt
dict append wapp .reply [uplevel 1 [list subst -novariables $txt]]
}

# Works like wapp-subst, but also removes whitespace from the beginning
# of lines.
#
proc wapp-trim {txt} {
    global wapp
    regsub -all {\n\s+} [string
    trim $txt] \n txt
    regsub -all {% (html|url|qp|string|unsafe){1,1}?(|%)\\((.+)\\)\2} $txt \
        {[wappInt-enc-\1 "\3"]} txt
    dict append wapp .reply [uplevel 1 [list subst -novariables $txt]]
}

# There must be a wappInt-enc-NAME routine for each possible substitution
# in wapp-subst. Thus there are routines for "html", "url", "qp", and "unsafe".
#
# wappInt-enc-html      Escape text so that it is safe to use in the
#                        body of an HTML document.
#
# wappInt-enc-url       Escape text so that it is safe to pass as an
#                        argument to href= and src= attributes in HTML.
#
# wappInt-enc-qp        Escape text so that it is safe to use as the
#                        value of a query parameter in a URL or in
#                        post data or in a cookie.
#
# wappInt-enc-string    Escape ", ', \, and < for using inside of a
#                        javascript string literal.
#                        The < character
#                        is escaped to prevent "</script>" from causing
#                        problems in embedded javascript.
#
# wappInt-enc-unsafe    Perform no encoding at all. Unsafe.
#
proc wappInt-enc-html {txt} {
    return [string map {& &amp; < &lt; > &gt; \" &quot; \\ &#92;} $txt]
}
proc wappInt-enc-unsafe {txt} {
    return $txt
}
proc wappInt-enc-url {s} {
    if {[regsub -all {[^{}@~?=#_./a-zA-Z0-9]} $s {[wappInt-%HHchar {&}}] s}} {
        set s [subst -novar -noback $s]
    }
}

```

```

if {[regsub -all {{}}] $s {[wappInt-%HHchar \&]} s]} {
    set s [subst -novar -noback $s]
}
return $s
}

proc wappInt-enc-qp {s} {
if {[regsub -all {[^~}_{_}.a-zA-Z0-9]} $s {[wappInt-%HHchar {&}]} s]} {
    set s [subst -novar -noback $s]
}
if {[regsub -all {{{}}} $s {[wappInt-%HHchar \&]} s]} {
    set s [subst -novar -noback $s]
}
return $s
}

proc wappInt-enc-string {s} {
return [string map {\ \\\\ \" \\\" ' \' < \u003c} $s]
}

# This is a
helper routine for wappInt-enc-url and wappInt-enc-qp. It returns
# an appropriate %HH encoding for the single character c. If c is a unicode
# character, then this routine might return multiple bytes: %HH%HH%HH
#
proc wappInt-%HHchar {c} {
if {$c==" "} {return +}
return [regsub -all .. [binary encode hex [encoding convertto utf-8 $c]] {%&}]
}

# Undo the www-url-encoded format.
#
# HT: This code stolen from ncgi.tcl
#
proc wappInt-decode-url {str} {
set str [string map [list + { } "\" ""\[" "\]" "\]] $str]
regsub -all -- \
    {%(Ee)[A-Fa-f0-9])%([89ABab][A-Fa-f0-9])%([89ABab][A-Fa-f0-9]))} \
    $str {[encoding convertfrom utf-8 [binary decode hex \1\2\3]]} str
regsub -all -- \
    {%(CDcd)[A-Fa-f0-9])%([89ABab][A-Fa-f0-9]))} \
    $str {[encoding convertfrom utf-8 [binary decode hex \1\2]]} str
regsub -all -- {%([0-7][A-Fa-f0-9]))} $str {\u00\1} str
return [subst -novar $str]
}

# Reset the document back to an empty string.
#
proc

```

```

wapp-reset {} {
global wapp
dict set wapp .reply {}
}

# Change the mime-type of the result document.
#
proc wapp-mimetype {x} {
global wapp
dict set wapp .mimetype $x
}

# Change the reply code.
#
proc wapp-reply-code {x} {
global wapp
dict set wapp .reply-code $x
}

# Set a cookie
#
proc wapp-set-cookie {name value} {
global wapp
dict lappend wapp .new-cookies $name $value
}

# Unset a cookie
#
proc wapp-clear-cookie {name} {
wapp-set-cookie $name {}
}

# Add extra entries to the reply header
#
proc wapp-reply-extra {name value} {
global wapp
dict lappend wapp .reply-extra $name $value
}

# Specifies how the web-page under construction should be cached.
# The argument should be one of:
#
# no-cache
# max-age=N          (for some integer number of seconds, N)
# private,max-age=N
#
proc wapp-cache-control {x} {
wapp-reply-extra Cache-Control $x
}

```

```

}

# Redirect to a different web page
#
proc wapp-redirect {uri} {
    wapp-reply-code {307 Redirect}
    wapp-reply-extra
    Location $uri
}

# Return the value of a wapp parameter
#
proc wapp-param {name {dflt {}}} {
    global wapp
    if {![dict exists $wapp $name]} {return $dflt}
    return [dict get $wapp $name]
}

# Return true if a and only if the wapp parameter $name exists
#
proc wapp-param-exists {name} {
    global wapp
    return [dict exists $wapp $name]
}

# Set the value of a wapp parameter
#
proc wapp-set-param {name value} {
    global wapp
    dict set wapp $name $value
}

# Return all parameter names that match the GLOB pattern, or all
# names if the GLOB pattern is omitted.
#
proc wapp-param-list {{glob {*}}} {
    global wapp
    return [dict keys $wapp $glob]
}

# By default, Wapp does not decode query parameters and POST parameters
# for cross-origin requests. This is a security restriction, designed to
# help prevent cross-site request forgery (CSRF) attacks.
#
# As a consequence of this restriction, URLs for sites generated by Wapp
# that contain query parameters will not work as URLs
# found in other
# websites. You cannot create a link from a second website into a Wapp

```



```

# website if the link contains query planner, by default.
#
# Of course, it is sometimes desirable to allow query parameters on external
# links. For URLs for which this is safe, the application should invoke
# wapp-allow-xorigin-params. This procedure tells Wapp that it is safe to
# go ahead and decode the query parameters even for cross-site requests.
#
# In other words, for Wapp security is the default setting. Individual pages
# need to actively disable the cross-site request security if those pages
# are safe for cross-site access.
#
proc wapp-allow-xorigin-params {} {
    global wapp
    if {[dict exists $wapp .qp] && ![dict get $wapp SAME_ORIGIN]} {
        wappInt-decode-query-params
    }
}

# Set the content-security-policy.
#
# The default content-security-policy is very strict: "default-src 'self'"
# The default policy prohibits the use of in-line javascript or CSS.
#
# Provide an alternative
# CSP as the argument. Or use "off" to disable
# the CSP completely.
#
proc wapp-content-security-policy {val} {
    global wapp
    if {$val=="off"} {
        dict unset wapp .csp
    } else {
        dict set wapp .csp $val
    }
}

# Examine the bodys of all procedures in this program looking for
# unsafe calls to various Wapp interfaces. Return a text string
# containing warnings. Return an empty string if all is ok.
#
# This routine is advisory only. It misses some constructs that are
# dangerous and flags others that are safe.
#
proc wapp-safety-check {} {
    set res {}
    foreach p [info procs] {
        set ln 0
        foreach x [split [info body $p] \n] {

```

```

incr ln
if {[regexp {[ \t]*wapp[ \t]+([\n]+)} $x all tail]
  && [string index $tail 0]!="\173"
  && [regexp {[[ $]} $tail]
} {
  append res "$p:$ln: unsafe \"wapp\" call: \"[string trim $x]\"\\n"
}
if {[regexp {[ \t]*wapp-(subst|trim)[ \t]+([\n173]} $x all cx]} {
  append res "$p:$ln: unsafe \"wapp-$cx\"
call: \"[string trim $x]\"\\n"
}
}
}
return $res
}

# Return a string that describes the current environment. Applications
# might find this useful for debugging.
#
proc wapp-debug-env {} {
  global wapp
  set out {}
  foreach var [lsort [dict keys $wapp]] {
    if {[string index $var 0]=="."} continue
    append out "$var = [list [dict get $wapp $var]]\\n"
  }
  append out "\\pwd\\ = [list [pwd]]\\n"
  return $out
}

# Tracing function for each HTTP request. This is overridden by wapp-start
# if tracing is enabled.
#
proc wappInt-trace {} {}

# Start up a listening socket. Arrange to invoke wappInt-new-connection
# for each inbound HTTP connection.
#
# port      Listen on this TCP port. 0 means to select a port
#           that is not currently in use
#
# wappmode   One of "scgi", "server", or "local".
#
proc wappInt-start-listener {port wappmode} {
  if {$wappmode=="scgi"} {
    set type SCGI
    set server [list wappInt-new-connection

```

```

wappInt-scgi-readable $wappmode]
} else {
    set type HTTP
    set server [list wappInt-new-connection wappInt-http-readable $wappmode]
}
if {$wappmode=="local"} {
    set x [socket -server $server -myaddr 127.0.0.1 $port]
} else {
    set x [socket -server $server $port]
}
set coninfo [chan configure $x -sockname]
set port [lindex $coninfo 2]
if {$wappmode=="local"} {
    wappInt-start-browser http://127.0.0.1:$port/
} else {
    puts "Listening for $type requests on TCP port $port"
}
}

# Start a web-browser and point it at $URL
#
proc wappInt-start-browser {url} {
    global tcl_platform
    if {$tcl_platform(platform)=="windows"} {
        exec cmd /c start $url &
    } elseif {$tcl_platform(os)=="Darwin"} {
        exec open $url &
    } elseif {[catch {exec xdg-open $url}]} {
        exec firefox $url &
    }
}

# This routine is a "socket -server" callback. The $chan, $ip, and $port
# arguments are added by the socket command.
#
# Arrange to invoke $callback when content is available
# on the new socket.
# The $callback will process inbound HTTP or SCGI content.
#
proc wappInt-new-connection {callback wappmode chan ip port} {
    upvar #0 wappInt-$chan W
    set W [dict create REMOTE_ADDR $ip REMOTE_PORT $port WAPP_MODE $wappmode \
        .header {}]
    fconfigure $chan -blocking 0 -translation binary
    fileevent $chan readable [list $callback $chan]
}

# Close an input channel

```

```

#
proc wappInt-close-channel {chan} {
  if {$chan=="stdout"} {
    # This happens after completing a CGI request
    exit 0
  } else {
    unset ::wappInt-$chan
    close $chan
  }
}

# Process new text received on an inbound HTTP request
#
proc wappInt-http-readable {chan} {
  if {[catch [list wappInt-http-readable-unsafe $chan] msg]} {
    puts stderr "$msg\n$::errorInfo"
    wappInt-close-channel $chan
  }
}

proc wappInt-http-readable-unsafe {chan} {
  upvar #0 wappInt-$chan W wapp wapp
  if {[dict exists $W .toread]} {
    # If the .toread key is not set, that means we are still reading
    # the header
    set line [string trimright [gets $chan]]
    set n [string length $line]
    if {$n>0} {
      if {[dict get $W .header]==" " || [regexp {^\s+} $line]} {
        dict append W .header $line
      } else {
        dict append W .header \n$line
      }
    }
    if {[string length [dict get $W .header]]>100000} {
      error "HTTP request header too big - possible DOS attack"
    }
  } elseif {$n==0} {
    # We have reached the blank line that terminates the header.
    global argv0
    set a0 [file normalize $argv0]
    dict set W SCRIPT_FILENAME $a0
    dict set W DOCUMENT_ROOT [file dir $a0]
    if {[wappInt-parse-header $chan]} {
      catch {close $chan}
      return
    }
    set len 0
    if {[dict exists $W CONTENT_LENGTH]} {
      set len [dict get $W CONTENT_LENGTH]
    }
  }
}

```

```

    }
    if {$len>0} {
        # Still need to read the query content
        dict set W .toread $len
    } else {
        # There is no query content, so handle
the request immediately
        set wapp $W
        wappInt-handle-request $chan 0
    }
}
} else {
    # If .toread is set, that means we are reading the query content.
    # Continue reading until .toread reaches zero.
    set got [read $chan [dict get $W .toread]]
    dict append W CONTENT $got
    dict set W .toread [expr {[dict get $W .toread]-[string length $got]}]
    if {[dict get $W .toread]<=0} {
        # Handle the request as soon as all the query content is received
        set wapp $W
        wappInt-handle-request $chan 0
    }
}
}

# Decode the HTTP request header.
#
# This routine is always running inside of a [catch], so if
# any problems arise, simply raise an error.
#
proc wappInt-parse-header {chan} {
    upvar #0 wappInt-$chan W
    set hdr [split [dict get $W .header] \n]
    if {$hdr==""} {return 1}
    set req [lindex $hdr 0]
    dict set W REQUEST_METHOD [set method [lindex $req 0]]
    if {[lsearch {GET HEAD POST} $method]<0} {
        error "unsupported request method:
\"[dict get $W REQUEST_METHOD]\""
    }
    set uri [lindex $req 1]
    set split_uri [split $uri ?]
    set uri0 [lindex $split_uri 0]
    if {[!regexp {[^[-a-z0-9_/*$]} $uri0]} {
        error "invalid request uri: \"$uri0\""
    }
    dict set W REQUEST_URI $uri0
    dict set W PATH_INFO $uri0

```

```

set uri1 [lindex $split_uri 1]
dict set W QUERY_STRING $uri1
set n [llength $hdr]
for {set i 1} {$i<$n} {incr i} {
    set x [lindex $hdr $i]
    if {[regexp {(^|.):+(.*)$} $x all name value]} {
        error "invalid header line: \"$x\""
    }
    set name [string toupper $name]
    switch -- $name {
        REFERER {set name HTTP_REFERER}
        USER-AGENT {set name HTTP_USER_AGENT}
        CONTENT-LENGTH {set name CONTENT_LENGTH}
        CONTENT-TYPE {set name CONTENT_TYPE}
        HOST {set name HTTP_HOST}
        COOKIE {set name HTTP_COOKIE}
        ACCEPT-ENCODING {set name HTTP_ACCEPT_ENCODING}
        default {set name .hdr:$name}
    }
    dict set W $name $value
}
return 0
}

# Decode the QUERY_STRING
parameters from a GET request or the
# application/x-www-form-urlencoded CONTENT from a POST request.
#
# This routine sets the ".qp" element of the ::wapp dict as a signal
# that query parameters have already been decoded.
#
proc wappInt-decode-query-params {} {
    global wapp
    dict set wapp .qp 1
    if {[dict exists $wapp QUERY_STRING]} {
        foreach qterm [split [dict get $wapp QUERY_STRING] &] {
            set qsplit [split $qterm =]
            set nm [lindex $qsplit 0]
            if {[regexp {[a-z][a-z0-9]*}$} $nm]} {
                dict set wapp $nm [wappInt-decode-url [lindex $qsplit 1]]
            }
        }
    }
}

if {[dict exists $wapp CONTENT_TYPE] && [dict exists $wapp CONTENT]} {
    set ctype [dict get $wapp CONTENT_TYPE]
    if {$ctype=="application/x-www-form-urlencoded"} {
        foreach qterm [split [string trim [dict get $wapp CONTENT]] &] {
            set qsplit [split $qterm =]

```

```

set nm [lindex $qsplitt 0]
if {[regexp {[^a-z][-a-z0-9_]*}$} $nm]} {
    dict set wapp $nm [wappInt-decode-url
[lindex $qsplitt 1]]
}
}
} elseif {[string match multipart/form-data* $ctype]} {
    regexp {^(.*?)\r\n(.*?)$} [dict get $wapp CONTENT] all divider body
    set ndiv [string length $divider]
    while {[string length $body]} {
        set idx [string first $divider $body]
        set unit [string range $body 0 [expr {$idx-3}]]
        set body [string range $body [expr {$idx+$ndiv+2}] end]
        if {[regexp {^Content-Disposition: form-data; (.*)\r\n\r\n(.*?)$} \
            $unit unit hdr content] &&
            [regexp {name="(.*?)"; filename="(.*?)\r\nContent-Type: (.*)$}\
                $hdr hr name filename mimetype]} {
            dict set wapp $name.filename \
                [string map [list \' \' \'\' \\] $filename]
            dict set wapp $name.mimetype $mimetype
            dict set wapp $name.content $content
        }
    }
}
}
```

```
# Invoke application-supplied methods to generate a reply to
# a single HTTP request.
```

#

```
# This routine always
```

runs within [catch], so handle exceptions by

invoking [error].

#

```
proc wappInt-handle-request {chan useCgi} {
    global wapp
    dict set wapp .reply {}
    dict set wapp .mimetype {text/html; charset=utf-8}
    dict set wapp .reply-code {200 Ok}
    dict set wapp .csp {default-src 'self'}
```

```
# Set up additional CGI environment values
```

#

```
if {[dict exists $wapp HTTP_HOST]} {
```

```
dict set wapp BASE_URL {}
```

```
} elseif {[dict exists $wapp HTTPS]} {
```

```
dict set wapp BASE_URL https://[dict get $wapp HTTP_HOST]
```

```

} else {

```

```

dict set wapp BASE_URL http://[dict get $wapp HTTP_HOST]
}
if {[dict exists $wapp REQUEST_URI]} {
    dict set wapp REQUEST_URI /
} elseif {[regsub {\?.*} [dict get $wapp REQUEST_URI] {} newR]} {
    # Some servers (ex: nginx) append the query parameters to REQUEST_URI.
    # These need to be stripped off
    dict set wapp REQUEST_URI $newR
}
if {[dict exists $wapp SCRIPT_NAME]} {
    dict append wapp BASE_URL [dict get $wapp SCRIPT_NAME]
} else {
    dict set wapp
SCRIPT_NAME {}
}
if {[dict exists $wapp PATH_INFO]} {
    # If PATH_INFO is missing (ex: nginx) the construct it
    set URI [dict get $wapp REQUEST_URI]
    set skip [string length [dict get $wapp SCRIPT_NAME]]
    dict set wapp PATH_INFO [string range $URI $skip end]
}
if {[regexp {^(/[^\+]+)(.*)$} [dict get $wapp PATH_INFO] all head tail]} {
    dict set wapp PATH_HEAD $head
    dict set wapp PATH_TAIL [string trimleft $tail /]
} else {
    dict set wapp PATH_INFO {}
    dict set wapp PATH_HEAD {}
    dict set wapp PATH_TAIL {}
}
dict set wapp SELF_URL [dict get $wapp BASE_URL]/[dict get $wapp PATH_HEAD]

# Parse query parameters from the query string, the cookies, and
# POST data
#
if {[dict exists $wapp HTTP_COOKIE]} {
    foreach qterm [split [dict get $wapp HTTP_COOKIE] {}] {
        set qsplit [split [string trim $qterm] =]
        set nm [lindex $qsplit 0]
        if {[regexp {^[a-z][-a-z0-9_]*$} $nm]} {
            dict set wapp $nm [wappInt-decode-url [lindex
$qspllit 1]]
        }
    }
}
set same_origin 0
if {[dict exists $wapp HTTP_REFERER]} {
    set referer [dict get $wapp HTTP_REFERER]
    set base [dict get $wapp BASE_URL]

```



```

if {$referer==$base || [string match $base/* $referer]} {
    set same_origin 1
}
}
dict set wapp SAME_ORIGIN $same_origin
if {$same_origin} {
    wappInt-decode-query-params
}

# Invoke the application-defined handler procedure for this page
# request. If an error occurs while running that procedure, generate
# an HTTP reply that contains the error message.
#
wapp-before-dispatch-hook
wappInt-trace
set mname [dict get $wapp PATH_HEAD]
if {[catch {
    if {$mname!="" && [llength [info proc wapp-page-$mname]]>0} {
        wapp-page-$mname
    } else {
        wapp-default
    }
} msg]} {
    if {[wapp-param WAPP_MODE]=="local" || [wapp-param WAPP_MODE]=="server"} {
        puts "ERROR: $::errorInfo"
    }
    wapp-reset
    wapp-reply-code "500 Internal Server Error"
    wapp-mimetype
    text/html
    wapp-trim {
        <h1>Wapp Application Error</h1>
        <pre>%html($::errorInfo)</pre>
    }
    dict unset wapp .new-cookies
}

# Transmit the HTTP reply
#
if {$chan=="stdout"} {
    puts $chan "Status: [dict get $wapp .reply-code]\r"
} else {
    puts $chan "HTTP/1.1 [dict get $wapp .reply-code]\r"
    puts $chan "Server: wapp\r"
    puts $chan "Connection: close\r"
}
if {[dict exists $wapp .reply-extra]} {
    foreach {name value} [dict get $wapp .reply-extra] {

```

```

    puts $chan "$name: $value\r"
}
}
if {[dict exists $wapp .csp]} {
    puts $chan "Content-Security-Policy: [dict get $wapp .csp]\r"
}
set mimetype [dict get $wapp .mimetype]
puts $chan "Content-Type: $mimetype\r"
if {[dict exists $wapp .new-cookies]} {
    foreach {nm val} [dict get $wapp .new-cookies] {
        if {[regexp {[a-z][-a-z0-9_]*$} $nm]} {
            if {$val==""} {
                puts $chan "Set-Cookie: $nm=; HttpOnly; Path=/; Max-Age=1\r"
            } else {
                set
            }
        }
    }
    val [wappInt-enc-url $val]
    puts $chan "Set-Cookie: $nm=$val; HttpOnly; Path=/\r"
}
}
}
}
if {[string match text/* $mimetype]} {
    set reply [encoding convertto utf-8 [dict get $wapp .reply]]
    if {[regexp {\ygzip\y} [wapp-param HTTP_ACCEPT_ENCODING]]} {
        catch {
            set x [zlib gzip $reply]
            set reply $x
            puts $chan "Content-Encoding: gzip\r"
        }
    }
} else {
    set reply [dict get $wapp .reply]
}
puts $chan "Content-Length: [string length $reply]\r"
puts $chan \r
puts $chan $reply
flush $chan
wappInt-close-channel $chan
}

# This routine runs just prior to request-handler dispatch. The
# default implementation is a no-op, but applications can override
# to do additional transformations or checks.
#
proc wapp-before-dispatch-hook {} {return}

# Process a single CGI request
#

```

```

proc wappInt-handle-cgi-request {} {
    global wapp env
    foreach key {
        CONTENT_LENGTH
        CONTENT_TYPE
        DOCUMENT_ROOT
        HTTP_ACCEPT_ENCODING
        HTTP_COOKIE
        HTTP_HOST
        HTTP_REFERER
        HTTP_USER_AGENT
        HTTPS
        PATH_INFO
        QUERY_STRING
        REMOTE_ADDR
        REQUEST_METHOD
        REQUEST_URI
        REMOTE_USER
        SCRIPT_FILENAME
        SCRIPT_NAME
        SERVER_NAME
        SERVER_PORT
        SERVER_PROTOCOL
    } {
        if {[info exists env($key)]} {
            dict set wapp $key $env($key)
        }
    }
    set len 0
    if {[dict exists $wapp CONTENT_LENGTH]} {
        set len [dict get $wapp CONTENT_LENGTH]
    }
    if {$len>0} {
        fconfigure stdin -translation binary
        dict set wapp CONTENT [read stdin $len]
    }
    dict set wapp WAPP_MODE cgi
    fconfigure stdout -translation binary
    wappInt-handle-request stdout 1
}

# Process new text received on an inbound SCGI request
#
proc wappInt-scgi-readable {chan} {
    if {[catch [list wappInt-scgi-readable-unsafe $chan] msg]} {
        puts stderr "$msg\n$::errorInfo"
        wappInt-close-channel $chan
    }
}

```

```

}
proc wappInt-scgi-readable-unsafe {chan} {
  upvar #0 wappInt-$chan W wapp wapp
  if
  {[dict exists $W .toread]} {
    # If the .toread key is not set, that means we are still reading
    # the header.
    #
    # An SGI header is short. This implementation assumes the entire
    # header is available all at once.
    #
    set req [read $chan 15]
    set n [string length $req]
    scan $req %d:%s len hdr
    incr len [string length "$len;"]
    append hdr [read $chan [expr {$len-15}]]
    foreach {nm val} [split $hdr \000] {
      if {$nm==" "} break
      dict set W $nm $val
    }
    set len 0
    if {[dict exists $W CONTENT_LENGTH]} {
      set len [dict get $W CONTENT_LENGTH]
    }
    if {$len>0} {
      # Still need to read the query content
      dict set W .toread $len
    } else {
      # There is no query content, so handle the request immediately
      set wapp $W
      wappInt-handle-request $chan 0
    }
  } else {
    # If .toread is set, that means we are reading the query content.
    # Continue reading until .toread reaches zero.
    set got [read
$chan [dict get $W .toread]]
    dict append W CONTENT $got
    dict set W .toread [expr {[dict get $W .toread]-[string length $got]}]
    if {[dict get $W .toread]<=0} {
      # Handle the request as soon as all the query content is received
      set wapp $W
      wappInt-handle-request $chan 0
    }
  }
}
}

```

Start up the wapp framework. Parameters are a list passed as the

```

# single argument.
#
# -server $PORT      Listen for HTTP requests on this TCP port $PORT
#
# -local $PORT       Listen for HTTP requests on 127.0.0.1:$PORT
#
# -scgi $PORT        Listen for SCGI requests on TCP port $PORT
#
# -cgi              Handle a single CGI request
#
# With no arguments, the behavior is called "auto". In "auto" mode,
# if the GATEWAY_INTERFACE environment variable indicates CGI, then run
# as CGI. Otherwise, start an HTTP server bound to the loopback address
# only, on an arbitrary TCP port, and automatically launch a web browser
# on that TCP port.
#
# Additional
options:
#
# -trace            "puts" each request URL as it is handled, for
#                  debugging
#
# -lint            Run wapp-safety-check on the application instead
#                  of running the application itself
#
# -Dvar=value       Set TCL global variable "var" to "value"
#
#
proc wapp-start {arglist} {
    global env
    set mode auto
    set port 0
    set n [llength $arglist]
    for {set i 0} {$i<$n} {incr i} {
        set term [lindex $arglist $i]
        if {[string match --* $term]} {set term [string range $term 1 end]}
        switch -glob -- $term {
            -server {
                incr i;
                set mode "server"
                set port [lindex $arglist $i]
            }
            -local {
                incr i;
                set mode "local"
                set port [lindex $arglist $i]
            }
            -scgi {

```

```

incr i;
set mode "scgi"
set port [lindex $arglist $i]
}
-cgi {
set mode "cgi"
}
-trace {
proc wappInt-trace {} {

set q [wapp-param QUERY_STRING]
set uri [wapp-param BASE_URL][wapp-param PATH_INFO]
if {$q!=""} {append uri ?$q}
puts $uri
}
}
-lint {
set res [wapp-safety-check]
if {$res!=""} {
puts "Potential problems in this code:"
puts $res
exit 1
} else {
exit
}
}
-D*={
if {[regexp {^\.D([^\=]+)=(.*)$} $term all var val]} {
set ::$var $val
}
}
default {
error "unknown option: $term"
}
}
if {($mode=="auto"
&& [info exists env(GATEWAY_INTERFACE)]
&& [string match CGI/1.* $env(GATEWAY_INTERFACE)])
|| $mode=="cgi"
} {
wappInt-handle-cgi-request
return
}
if {$mode=="scgi"} {
wappInt-start-listener $port scgi
} elseif {$mode=="server"} {
wappInt-start-listener $port server
}

```

```

} else {
    wappInt-start-listener $port local
}
vwait ::forever
}

# Call this version
1.0
package provide wapp 1.0

#### End of wapp.tcl

# Generate all header content for the output document
#
proc search_header {} {
    wapp-trim {
<!DOCTYPE html>
<html><head>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
<link href="../sqlite.css" rel="stylesheet">
<title>Search SQLite Stats</title>
<!-- path=../ -->
</head>
<body>
<div class=nosearch>
<a href="../index.html">

</a>
<div><!-- IE hack to prevent disappearing logo --></div>
<div class="tagline desktoponly">
Small. Fast. Reliable.<br>Choose any three.
</div>
<div class="menu mainmenu">
<ul>
<li><a href="../index.html">Home</a>
<li class='mobileonly'><a href="javascript:void(0)" onclick='toggle_div("submenu")'>Menu</a>
<li class='wideonly'><a href='../about.html'>About</a>
<li class='desktoponly'><a href="../docs.html">Documentation</a>
<li class='desktoponly'><a
href="../download.html">Download</a>
<li class='wideonly'><a href='../copyright.html'>License</a>
<li class='desktoponly'><a href="../support.html">Support</a>
<li class='desktoponly'><a href="../prosupport.html">Purchase</a>
<li class='search' id='search_menubutton'>
<a href="javascript:void(0)" onclick='toggle_search()'>Search</a>
</li>
</ul>
</div>

```

```

<div class="menu submenu" id="submenu">
<ul>
<li><a href='../about.html'>About</a>
<li><a href='../docs.html'>Documentation</a>
<li><a href='../download.html'>Download</a>
<li><a href='../support.html'>Support</a>
<li><a href='../prosupport.html'>Purchase</a>
</ul>
</div>
<div class="searchmenu" id="searchmenu">
<form method="GET" action="../search">
<select name="s" id="searchtype">
<option value="d">Search Documentation</option>
<option value="c">Search Changelog</option>
</select>
<input type="text" name="q" id="searchbox" value="">
<input type="submit" value="Go">
</form>
</div>
</div>
<script>
function toggle_div(nm) {
var w =
    document.getElementById(nm);
if( w.style.display=="block" ){
w.style.display = "none";
}else{
w.style.display = "block";
}
}

function toggle_search() {
var w = document.getElementById("searchmenu");
if( w.style.display=="block" ){
w.style.display = "none";
} else {
w.style.display = "block";
setTimeout(function(){
document.getElementById("searchbox").focus()
}, 30);
}
}

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

```



```

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

```

```

proc wapp-default {} {
# When running using the built-in webserver in Wapp (in other words,
# when not running as CGI) any filename that contains a "." loads
# directly from the filesystem.
if {[wapp-param WAPP_MODE]!="cgi"}
&& [string match *.* [wapp-param PATH_INFO]]
{ {
set altfile [file dir [wapp-param SCRIPT_FILENAME]]/[wapp-param PATH_INFO]
set fd [open $altfile rb]
fconfigure $fd -translation binary
wapp-unsafe [read $fd]
close $fd
switch -glob -- $altfile {
*.html {
wapp-mimetype text/html
}
*.css {
wapp-mimetype text/css
}
*.gif {
wapp-mimetype image/gif
}
}
return
}
wapp-page-admin
}
proc wapp-page-admin {} {
wapp-allow-xorigin-params

```

```

wapp-content-security-policy off
if {[wapp-param-exists env]} {
    search_header
    wapp-trim {

<h1>Environment</h1>
    <pre>%html([wapp-debug-env])</pre>
    }
    return
}
sqlite3 db2 [file dir [wapp-param SCRIPT_FILENAME]]/searchlog.db
set where ""
set res ""

set ipfilter ""
set ipaddr [wapp-param ip]
if {$ipaddr!=""} {
    set where {WHERE ip = $ipaddr}
    set ipfilter $ipaddr
}

set checked ""
set isUnique [expr {[wapp-param unique 0]+0}]
if {$isUnique} {
    set checked "checked"
}

set limit [wapp-param limit 10]
set s10 ""
set s100 ""
set s1000 ""
if {$limit==10} {set s10 selected}
if {$limit==100} {set s100 selected}
if {$limit==1000} {set s1000 selected}

search_header
set self [wapp-param PATH_HEAD]
wapp-trim {
    <div style="margin:2em">
    <center>
    <form action='%url($self)' method='GET'>
        Results: <select name=limit onChange="this.form.submit()">
            <option %html($s10) value="10">10</option>
            <option %html($s100) value="100">100</option>
            <option %html($s1000) value="1000">1000</option>
        </select>
        IP: <input type=input name=ip value="%html($ipfilter)">
        Unique: <input

```

```

        type=checkbox name=unique value=1
        $checked
        onChange="this.form.submit()">
    <input type=submit>
</form>
</center>
</div>
<table border=1 cellpadding=10 align=center>
<tr><td><th>IP <th>Query <th> Results <th> Timestamp
}

set i 0
db2 eval "
SELECT rowid, ip, query, nres, timestamp FROM log $where
ORDER BY rowid DESC
" {

if {$sisUnique} {
    if {[info exists seen($query)]} continue
    set seen($query) 1
}

wapp-trim {
    <tr><td>%html($rowid)
        <td><a href='%url($self)?ip=%qp($ip)'>%html($ip)</a>
        <td><a href='../search?q=%qp($query)&donotlog=1'>%html($query)</a>
        <td>%html($nres)<td>%html($timestamp)
    }
    incr i
    if {$i >= $limit} break
}
wapp-subst {</table\n}
db2 close
}
wapp-start $argv

```

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/search.d/admin

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

application is free to use the same database connection or the

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/capi3ref.html

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

data, so do not send the ".fullschema" output of a proprietary database

Found in path(s):

* /sqlite3-3-31-1-orig-www-1-tar-xz/www/cli.html

1.117 aiohttp 3.7.4.post0

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1.118 ubuntu-keyring 2020.02.11.4

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1.119 open-ldap 2.4.49+dfsg-2ubuntu1.8

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

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

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

All

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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1.123 python-certifi 2019.11.28

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2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.3	3.2			
2012	PSF	yes		

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- Wichert Akkerman, 2012/02/02

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes

2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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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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Release	Derived from	Year	Owner	GPL- compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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1.125 contextlib2 0.6.0

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team.

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

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Release	Derived from	Year	Owner	GPL-compatible? (1)
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes

3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
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1.126 msgpack 0.6.2

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1.132 lz4 1.9.2-ubuntu0.20.04.1

1.132.1 Available under license :

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

Upstream-Name: lz4

Source: <https://github.com/Cyan4973/lz4>

Files: *

Copyright: Copyright (C) 2011-2017, Yann Collet.

License: BSD-2-clause

Files: lib/*

Copyright: Copyright (C) 2011-2017, Yann Collet.

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Files: lib/liblz4.pc.in

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Files: lib/lz4frame.c

lib/lz4frame_static.h

lib/xxhash.c

lib/xxhash.h

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Files: programs/*

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Files: programs/lz4io.c

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Files: programs/platform.h

Copyright: Copyright (C) 2016 -present, Przemyslaw Skibinski, Yann Collet

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Files: programs/util.h

Copyright: Copyright (C) 2016 -present, Przemyslaw Skibinski, Yann Collet

License: GPL-2+

Files: ./examples/printVersion.c

Copyright:

Takayuki Matsuoka & Yann Collet

License: GPL-2

Files: ./examples/blockStreaming_lineByLine.c

./examples/blockStreaming_doubleBuffer.c

Copyright: Takayuki Matsuoka

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Files: ./examples/HCStreaming_ringBuffer.c

./examples/blockStreaming_ringBuffer.c

Copyright: Yann Collet

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Files: ./examples/compress_functions.c

./examples/simple_buffer.c

Copyright: Kyle Harper

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Files: debian/*

Copyright: 2013 Nobuhiro Iwamatsu <iwamatsu@debian.org>

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1.133 more-itertools 8.8.0

1.133.1 Available under license :

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

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Found in path(s):

- * /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/__init__.py
- * /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/grammar.py

```

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/pgen.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/literals.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/pgen.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/grammar.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/grammar.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/pgen.py
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):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/distutils/command/bdist_rpm.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/distutils/command/bdist_rpm.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/distutils/command/bdist_rpm.py
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```

executable.

```

Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/spawn.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/spawn.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/spawn.py
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```

```

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```

```

# A grammar to describe tree matching patterns.
# Not shown here:
# - 'TOKEN' stands for any token (leaf node)
# - 'any' stands for any node (leaf or interior)

```

With 'any' we can still specify the sub-structure.

The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative ('|' Alternative)*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '=' (STRING [Repeater]
| NAME [Details] [Repeater]
| '(' Alternatives ')' [Repeater]
| '[' Alternatives '']
)

NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')

Repeater: '*' | '+' | '{' NUMBER [, NUMBER] '}'

Details: '<' Alternatives '>'

Found in path(s):

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/PatternGrammar.txt
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/PatternGrammar.txt
*

/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/PatternGrammar.txt

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*****/

Found in path(s):

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Modules/_tkinter.c
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Modules/_tkinter.c
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Modules/_tkinter.c

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Found in path(s):

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/driver.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/driver.py

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/driver.py

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Found in path(s):

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixer_base.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_long.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_long.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_exec.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixer_base.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixer_base.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_long.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_exec.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pytree.py
*

```
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_has_key.py
*

/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_exec.py
No license file was found, but licenses were detected in source scan.
```

```
file.write('License: %s\n' % self.get_license())
```

Found in path(s):

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/dist.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/dist.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/dist.py
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```

```
# version.
```

Found in path(s):

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/cygwinccompiler.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/cygwinccompiler.py
*

/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/cygwinccompiler.py
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```

```
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```

Found in path(s):

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/lib2to3/fixes/fix_standarderror.py
```

```

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_map.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_dict.py
*
/ python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_map.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_filter.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_filter.py
*
/ python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_filter.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_map.py
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```

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Found in path(s):

```

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/tokenize.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/tokenize.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/tokenize.py

```

1.135 scp-py 0.13.2

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1.137 dataclasses 0.6

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1.138 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;
__END__

1;

__END__

=head1 NAME
```

Algorithm::Merge - Three-way merge and diff

=head1 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|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|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' ],  
[ '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 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|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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in path(s):

* /libalgorithm-merge-perl-0-08-orig-1-tar-gz/Algorithm-Merge-0.08/Merge.pm

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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
}, $key_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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Found in path(s):

* /libalgorithm-merge-perl-0-08-orig-1-tar-gz/Algorithm-Merge-0.08/README

1.139 liberror-perl 0.17029-1

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1.140 apt 2.0.6

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1.141 pytest-asyncio 0.15.1

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1.142 python-requests 2.26.0

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1.143 gnutls 3.6.13-2ubuntu1.6

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Constant-time SSSE3 AES core implementation.

version 0.1

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By Mike Hamburg (Stanford University), 2009

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Constant-time SSSE3 AES core implementation.

version 0.1

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1.145 base-files 11ubuntu5.4

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1.146 pcre 10.34-7

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THE BASIC LIBRARY FUNCTIONS

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1.148 kerberos 1.17-6ubuntu4.1

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
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lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c

uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c

lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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Any executables

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1.151 pytest 6.2.5

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1.152 procps 3.3.16-1ubuntu2.3

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1.153 curl 7.68.0-1ubuntu2.7

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=====

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1.155 urllib3 1.26.7

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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				

2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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Distutils2 Contributors
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The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
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1.160 futures 0.18.2

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1.161 httpparser 2.9.4

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1.165 cffi 1.15.0

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1.166 urllib3 1.26.6-1.ph1

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1.167 daslr 2.2.4

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1.169 idna 14.0.0

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1.170 tdb 1.45.5

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1.171 packaging 21.2

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1.172 py 1.11.0

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1.173 yarl 1.7.2

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1.174 pycparser 2.21

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1.175 ipaddr-py 2.2.0

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1.180 wget 1.20.3-1ubuntu2

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section 10

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1.181 msgpack-python 0.6.2

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1.182 sdwan-collector 2.0.1

1.182.1 Available under license :

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```
""""Setup File""""
```

```
from setuptools import find_packages, setup
```

```
setup(  
    name="sdwan_collector",  
    version="2.0.1",  
    description="NMS Query System for uploading data from SDWAN to Cisco NP.",  
    author="Cisco Inc",  
    author_email="cx_oic_eng_team@cisco.com",  
    license="Proprietary",  
    install_requires=[  
        "collectorless-client>=3.0.1",  
        "pysftp == 0.2.9",  
        "aiohttp == 3.7.4.post0",  
        "asynctest == 0.13.0",  
        "jsonschema == 3.2.0",  
        "dataclasses == 0.6",  
        "paramiko == 2.7.2",  
        "python-dotenv == 0.19.0",  
        "wheel == 0.37.0",  
        "urllib3 == 1.26.7",  
        "requests == 2.26.0",  
        "bcrypt == 3.2.0"  
    ],  
    extras_require={  
        ':python_version < "3.7"': [  
            'dataclasses==0.8',  
        ],  
    },  
    packages=find_packages(),  
    python_requires=">=3.6",  
    entry_points={  
        "console_scripts": ["collectorless_sdwan=sdwan_collector.controller:main"]  
    },  
    include_package_data=True,  
)
```


Found in path(s):

* /collectorless-sdwan-feature-collectorless-sdwan-2-0-1babf1c3ec13-zip/setup.py

1.183 sdwan_collector 2.0.1

1.183.1 Available under license :

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

```
""""Setup File""""
```

```
from setuptools import find_packages, setup
```

```
setup(
    name="sdwan_collector",
    version="2.0.1",
    description="NMS Query System for uploading data from SDWAN to Cisco NP.",
    author="Cisco Inc",
    author_email="cx_oic_eng_team@cisco.com",
    license="Proprietary",
    install_requires=[
        "collectorless-client>=3.0.1",
        "pysftp == 0.2.9",
        "aiohttp == 3.7.4.post0",
        "asynctest == 0.13.0",
        "jsonschema == 3.2.0",
        "dataclasses == 0.6",
        "paramiko == 2.7.2",
        "python-dotenv == 0.19.0",
        "wheel == 0.37.0",
        "urllib3 == 1.26.7",
        "requests == 2.26.0",
        "bcrypt == 3.2.0"
    ],
    extras_require={
        'python_version < "3.7"' : [
            'dataclasses==0.8',
        ],
    },
    packages=find_packages(),
    python_requires=">=3.6",
    entry_points={
        "console_scripts": ["collectorless_sdwan=sdwan_collector.controller:main"]
    },
    include_package_data=True,
)
```

Found in path(s):

1.184 six 1.14.0

1.184.1 Available under license :

The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and otherwise worked to improve six:

Marc Abramowitz
immerrr again
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Ivan Levkivskyi
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Mirko Rossini
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Miroslav Shubernetskiy
Eli Schwartz
Anthony Sottile
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Lucas Wiman
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If you think you belong on this list, please let me know! --Benjamin

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1.185 bcrypt 3.2.0

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1.186 wheel 0.37.0

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1.187 jsonschema 3.2.0

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1.188 cpp 9.3.0-1ubuntu2

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1.189 openssl 1.1.1f-1ubuntu2.10

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1.190 python 3.8.2-0ubuntu2

1.190.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwil.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.

A. HISTORY OF THE SOFTWARE

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

In 1995, Guido continued his work on Python at the Corporation for National

Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

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

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)

0.9.0 thru 1.2

1991-1995	CWI	yes

1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes

1.6	1.5.2	2000	CNRI	no

2.0	1.6	2000	BeOpen.com	no

1.6.1	1.6	2001	CNRI	yes (2)

2.1	2.0+1.6.1	2001	PSF	no

2.0.1	2.0+1.6.1	2001	PSF	yes

2.1.1	2.1+2.0.1	2001	PSF	yes

2.2	2.1.1	2001	PSF	yes

2.1.2	2.1.1	2002	PSF	yes

2.1.3	2.1.2	2002	PSF	yes

2.2.1	2.2	2002	PSF	yes

2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
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2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009		
	PSF	yes		
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes

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1.191 python-pip 20.0.2-5ubuntu1.6

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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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Release	Derived from	Year	Owner	GPL-compatible? (1)
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
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3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.3	3.2			
2012	PSF	yes		

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A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope

Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes

2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
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1.192 cryptography 36.0.1

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

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

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

All

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Release	Derived from	Year	Owner	GPL- compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL- compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes

2.2 and above 2.1.1 2001-now
PSF yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Any

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1.198 idna 3.3

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1.203 httpparser 2.21

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1.204 openssh 8.2p1-4ubuntu0.4

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This package was debianized by Philip Hands <phil@hands.com> on 31 Oct 1999
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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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The Debian-specific parts of the package were initially derived from the

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- The make-ssh-known-hosts

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*
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1.207 libcap 0.7.9-2.1build1

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Version 2.1, February 1999

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

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1.209 paramiko 2.9.2

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Any

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be

allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means

all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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(For example, a function in a library to compute square roots has

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

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

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

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany

it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

Section 6 states terms for distribution of such executables.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables

containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,

the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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That's all there is to it!

1.213 pyparsing 3.0.7

1.213.1 Available under license :

```
#!/usr/bin/python

# Python/pyparsing educational microC compiler v1.0
# Copyright (C) 2009 Zarko Zivanov
# (largely based on flex/bison microC compiler by Zorica Suvajdzin, used with her permission;
# current version can be found at http://www.acs.uns.ac.rs, under "Programski Prevodioci" [Serbian site])
#
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Version 3, 29 June 2007

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

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

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

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

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1. Source Code.

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

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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.

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

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

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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1.214 expat 2.2.9-1build1

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```

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+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith

Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must

be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

collective works based on the Library.

In addition,

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

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This option is useful when you wish to copy part of the code of the

Library into a program that is not a library.

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the

library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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

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

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

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

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the

Library will not necessarily be able to recompile the application to use the modified definitions.)

- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

That's all there is to it!

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

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d) If a facility in the modified

Library refers to a function or a

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

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

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

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any

executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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a) Accompany the work with the complete corresponding machine-readable

source code for the Library including whatever

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

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

user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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.

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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1.217 rich 11.0.0

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1.218 python-setuptools 60.6.0

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1.219 python-pip 22.0.3

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Contributors

- Chris McDonough, 2011/02/16

- Wichert Akkerman, 2012/02/02

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities

(CA). These were automatically extracted from Mozilla's root certificates

file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore

can be directly used with curl / libcurl / php_curl, or with

an Apache+mod_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

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.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes

2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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2.1.2	2002	PSF	yes	
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2.2.2	2.2.1	2002	PSF	yes
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2.4.3	2.4.2	2006	PSF	yes
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2.5	2.4	2006	PSF	yes
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2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now	PSF		yes

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/* 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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```
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```
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1.221 charset-normalizer 2.0.12

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1.222 typing-extensions 4.1.1

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>)

in Reston, Virginia where he released several versions of the software.

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

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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.223 typing 4.1.1

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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
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the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL- compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now	PSF	yes	

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1.224 udev 247.3-6

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1.225 python-setuptools 44.0.0

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1.226 pcre 8.39-12build1

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This is Debian GNU/Linux's prepackaged version of the PCRE regular expression library and associated pgrep utility.

This package was put together by me, Mark Baker <mbaker@iee.org> from the original sources obtained from ftp.csx.cam.ac.uk:/pub/software/programming/pcre.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions.

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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1.227 distro 1.4.0

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1.228 ipaddr 2.2.0

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1.229 progress 1.5

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1.230 html5lib-python 1.0.1

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1.232 pkg_resources 0.0.0

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

Metadata-Version: 2.0
Name: pkg_resources
Version: 0.0.0
Summary: UNKNOWN
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
License: UNKNOWN
Platform: UNKNOWN

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Found in path(s):

* /pkg-resources-0-0-0-dist-info-zip/inputdir/packages_extracted/wheel/103/pkg_resources-0.0.0.dist-info/METADATA

1.233 zlib 1.2.11

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Jean-loup Gailly	Mark Adler
jloup@gzip.org	madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

*/

1.234 chardet 4.0.0

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Any executables

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1.239 tenacity 8.0.1

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1.240 pep517 0.12.0

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1.241 idna 14.0.0

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1.242 six 1.16.0

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1.247 pycparser 2.21

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1.248 futures 3.3.0

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1.258 packaging 21.2

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1.259 multidict 6.0.2

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1.260 typing-extensions 4.1.1

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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now	PSF		yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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1.262 pyparsing 3.0.7

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1.264 audit 2.8.5-2ubuntu6

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1.265 util-linux 2.34-0.1ubuntu9.3

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1.267 fdisk 2.34.0

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@end group

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@c ispell-local-pdict: "ispell-dict"

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Version 3, 29 June 2007

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This package was put together by Matthias Klose <doko@debian.org>.

Upstream source:

<ftp.gnu.org:/pub/gnu/readline/readline-4.3.tar.gz>.

Author: Per Bothner

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```
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*/
```

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1.273 libgpg-error 1.37-1

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1.274 wheel 0.37.1

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1.275 charset-normalizer 2.0.12

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