



Open Source Used In Test-TimeScale-DB-Image 11.3

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Text Part Number: 78EE117C99-1176174683

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1.2 sensible-utils 0.0.12

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Upstream-Name: sensible-utils

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

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1.5 idna 2.6

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to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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

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```
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'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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

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

Any executables containing that work also fall under Section 6,

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```
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```

```
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```

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```
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```

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<signature of Ty Coon>, 1 April 1990
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1.7 cdebconf 0.249

1.7.1 Available under license :

CDebConf was initially written by Randolph Chung <tausq@debian.org>

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1.8 gdbm 1.18.1-4

1.8.1 Available under license :

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Version 3, 29 June 2007

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1.10 libedit 3.1-20181209-1

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1.11 protobuf-c 1.3.1-1+b1

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1.12 oniguruma 6.9.1-1

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1.13 dumb-init 1.2.2-1.1

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1.14 pyjwt 1.7.0-2

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1.15 giflib 5.1.4-3

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1.16 nspr 4.20-1

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

1.19 libsemanage-common 2.8-2

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1.20 python-idna 2.6 1

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<html>
```

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<title>Berkeley DB: Berkeley DB Product License</title>
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```
<meta name="keywords"
```

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```

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</head>
```

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```

```
<p align=center><b>Berkeley DB Product License</b></p>
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1.22 attr 2.4.48 4

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1.24 diffutils 3.7.3

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1.25 pcre 8.39 12

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1.26 ncurses 6.1+20181013 2+deb10u2

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1.27 bash 5.0 4

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1.32 libbsd 0.9.1 2

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1.33 bzip2 1.0.6 9.2~deb10u1

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.34 libxslt 1.1.32 2.2~deb10u1

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```

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```

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```
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```

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# COPYING.other                *- org *-  
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#+STARTUP: showall
```

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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

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

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

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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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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

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

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

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

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(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

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

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
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1.42 cyrus-sasl 2.1.27+dfsg-1+deb10u1

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1.43 python-rsa 4.0-2

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1.44 libtiff 4.1.0+git191117-2~deb10u1

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1.45 dns-python 1.16.0

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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 python-cryptography 2.6.1-3+deb10u2

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1.51 base-passwd 3.5.46

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1.52 debianutils 4.8.6.1

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1.53 e2fsprogs 1.44.5 1+deb10u3

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

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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
-
- Copyright (C) Andrew Tridgell 2005
- + Copyright (C) Andrew Tridgell 1999-2005
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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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Theodore Ts'o
23-June-2007

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```

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be called something other than `show w' and `show c'; they could even be
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```
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'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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

That's all there is to it!

This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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

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

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

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

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

```

This is the Debian GNU/Linux prepackaged version of the `ss` command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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

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This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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1.54 curl 7.64.0 4+deb10u1

1.54.1 Available under license :

License Mixing

=====

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

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

One common dilemma is that [GPL](<https://www.gnu.org/licenses/gpl.html>) licensed code is not allowed to be linked with code licensed under the [Original BSD license](<https://spdx.org/licenses/BSD-4-Clause.html>) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](<https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs>). This particular problem was addressed when the [Modified BSD license](<https://opensource.org/licenses/BSD-3-Clause>) was created, which does not have the announcement clause that collides with GPL.

libcurl

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1.55 findutils 4.6.0+git+20190209 2

1.55.1 Available under license :

It was downloaded from <ftp://ftp.gnu.org/gnu/findutils>

Debian maintainer history: The original package was put together by Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley <kevind@rahul.net> took over. 2003-07 Andreas Metzler <ametzler@debian.org> followed.

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The idea for -print0 and xargs -0 came from Dan Bernstein <brnstnd@kramden.acf.nyu.edu>.

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1.58 grep 3.3 1

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1.61 mawk 1.3.3 17+b3

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1.62 sed 4.7 1

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1.63 libtasn 4.13 3

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Version 3, 29 June 2007

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1.69 icu 63.1 6+deb10u1

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

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
rules
%.${STATIC_O}: $(srcdir)/%.c
```

```

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

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

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

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

## Versioned libraries rules

%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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1.70 mime-support 3.62

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1.71 libsepol 2.8 1

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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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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 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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

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Manoj Srivastava
<srivasta@debian.org>
arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

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

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

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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.
- 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.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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1.76 bsdmainutils 11.1.2+b1

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This package was originally put together by Austin Donnelly <and1000@debian.org>, but is heavily based on bsdutils, originally put together by Ian Murdock <imurdock@gnu.ai.mit.edu>. Please report any problems or suggested additions or changes to Austin Donnelly.

Then the package has been maintained by Charles Briscoe-Smith <cpbs@debian.org>. I gathered data for the 1999-2001 calendar files from various sources on the Internet, and I'd also like to thank Oliver Elphick, Julian Gilbey, Daniel Martin and Jaldhar H. Vyas for providing much useful data on the various religious calendars. I have edited the files they provided to fit calendar's requirements, so any errors should be attributed to me.

After cpbs@debian.org, Marco d'Itri <md@linux.it> maintained it for almost two years, before Tollef Fog Heen <tfheen@debian.org> took over. The package is now maintained by Graham Wilson <bob@decoy.wox.org>.

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1.79 python 3.7.3 2+deb10u2

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A. HISTORY OF THE SOFTWARE

=====

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

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

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

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes

2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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1.80 libssh2 1.8.0 2.1

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1.81 xz 5.2.4 1

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Upstream-Name: XZ Utils

Upstream-Contact:

Lasse Collin <lasse.collin@tukaani.org>

<https://tukaani.org/xz/lists.html>

Source:

<https://tukaani.org/xz>

<https://git.tukaani.org/xz.git>

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To: Jonathan Nieder <jrnieder@gmail.com>
Subject: Re: XZ utils for Debian
Date: Sun, 19 Jul 2009 13:28:23 +0300
Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

[...]

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Origin: configure.ac from XZ Utils,
visibility.m4 serial 1 (gettext-0.15),
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dos/config.h was generated with autoheader, which tells Autoconf to  
output a script to generate a config.h file and then runs it.
```

Files: po/Makevars

Origin: gettext-runtime/po/Makevars (gettext-0.12)

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- * Author: Balint Cristian <cbalint@redhat.com>
- *
- * matrix invert code derivate from GRASS project (< 4.0 version):

* <http://grass.itc.it/>
* http://en.wikipedia.org/wiki/Invertible_matrix
*
* * matrix multiply algorithm:
* http://en.wikipedia.org/wiki/Matrix_multiplication
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* * matrix transpose algorithm:
* <http://en.wikipedia.org/wiki/Transpose>

ogdi/c-api/opendir.c/h

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* A public domain implementation of BSD directory routines for
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1.84 python-kubernetes 7.0.0~a1-1

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have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.87 charls 2.0.0+dfsg-1

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1.88 libepsilon 0.9.2+dfsg-4

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* Alessandro Furieri <a.furieri@lqt.it>

- a lot of improvements to code portability
- porting to Windows (MSVC, MinGW)
- bug fixes: name clash with zlib & libpng
- fluff removal from the code

* Francesco P. Lovergine <frankie at debian dot org> from DebianGis project

- Maintaining epsilon, libepsilon and GDAL epsilon driver for Debian
- Adding versioning support to libepsilon

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stand

ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

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

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1.89 geos 3.7.1-1~exp1

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1.91 libgeotiff-dfsg 1.4.3~rc2-1~exp1

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1.92 strace 4.26-0.2

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1.94 cgal 4.13-1+b2

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 Largest Empty Rectangle 2:
 Tel-Aviv University (Israel).
 Extremal Polygon 2:
 ETH Zurich (Switzerland).
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 fileNew.png
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 AABB_tree 3D Fast Intersection and Distance Computation
 Advancing_front_surface_reconstruction Advancing Front Surface Reconstruction
 Alpha_shapes_2 2D Alpha Shapes
 Alpha_shapes_3 3D Alpha Shapes
 Apollonius_graph_2 2D Apollonius Graphs (Delaunay Graphs of Disks)
 Arrangement_on_surface_2 2D Arrangements
 Barycentric_coordinates_2 2D Generalized Barycentric Coordinates
 Boolean_set_operations_2 2D Regularized Boolean Set-Operations
 Bounding_volumes Bounding Volumes
 Box_intersection_d Intersecting Sequences of dD Iso-oriented Boxes
 Circular_kernel_2 2D Circular Geometry Kernel
 Circular_kernel_3 3D Spherical Geometry Kernel
 Classification Classification
 Cone_spanners_2 Cone-Based Spanners
 Convex_decomposition_3 Convex Decomposition of Polyhedra
 Convex_hull_2 2D Convex Hulls and Extreme Points
 Convex_hull_3 3D Convex Hulls
 Convex_hull_d dD Convex Hulls and Delaunay Triangulations
 Envelope_2 2D Envelopes
 Envelope_3 3D Envelopes
 GraphicsView CGAL and the Qt Graphics View Framework
 Inscribed_areas

Inscribed Areas
 Interpolation 2D and Surface Function Interpolation
 Interval_skip_list Interval Skip List
 Jet_fitting_3 Estimation of Local Differential Properties of Point-Sampled Surfaces
 Matrix_search Monotone and Sorted Matrix Search
 Mesh_2 2D Conforming Triangulations and Meshes
 Mesh_3 3D Mesh Generation
 Minkowski_sum_2 2D Minkowski Sums
 Minkowski_sum_3 3D Minkowski Sum of Polyhedra
 Nef_2 2D Boolean Operations on Nef Polygons
 Nef_3 3D Boolean Operations on Nef Polyhedra
 Nef_S2 2D Boolean Operations on Nef Polygons Embedded on the Sphere
 Optimal_transportation_reconstruction_2 Optimal Transportation Curve Reconstruction
 Partition_2 2D Polygon Partitioning
 Periodic_2_triangulation_2 2D Periodic Triangulations
 Periodic_3_mesh_3 3D Periodic Mesh Generation
 Periodic_3_triangulation_3 3D Periodic Triangulations
 Point_set_2 2D Range and Neighbor Search
 Point_set_3 3D Point Set
 Point_set_processing_3 Point Set Processing
 Point_set_shape_detection_3 Point Set Shape Detection
 Poisson_surface_reconstruction_3
 Poisson Surface Reconstruction
 Polygon_mesh_processing Polygon Mesh Processing
 Polygon_mesh_processing/Compute_normal Polygon Mesh Processing - Normal Computation
 Polygon_mesh_processing/connected_components Polygon Mesh Processing - Connected Components
 Polygon_mesh_processing/corefinement Polygon Mesh Processing - Corefinement
 Polygon_mesh_processing/core Polygon Mesh Processing - Core
 Polygon_mesh_processing/distance Polygon Mesh Processing - Distance
 Polygon_mesh_processing/measure Polygon Mesh Processing - Geometric Measure
 Polygon_mesh_processing/meshing_hole_filling Polygon Mesh Processing - Meshing and Hole Filling
 Polygon_mesh_processing/orientation Polygon Mesh Processing - Orientation
 Polygon_mesh_processing/predicate Polygon Mesh Processing - Predicate
 Polygon_mesh_processing/repair Polygon Mesh Processing - Repair
 Polygon_mesh_processing/miscellaneous Polygon Mesh Processing - Miscellaneous
 Polygon_mesh_processing/detect_features Polygon Mesh Processing
 - Feature Detection
 Polyhedron 3D Polyhedral Surface
 Polyline_simplification_2 2D Polyline Simplification
 Polytope_distance_d Optimal Distances
 Principal_component_analysis Principal Component Analysis
 QP_solver Linear and Quadratic Programming Solver
 Ridges_3 Approximation of Ridges and Umbilics on Triangulated Surface Meshes
 Scale_space_reconstruction_3 Scale-Space Surface Reconstruction
 SearchStructures dD Range and Segment Trees
 Segment_Delaunay_graph_2 2D Segment Delaunay Graphs
 Segment_Delaunay_graph_Linf_2 L Infinity Segment Delaunay Graphs
 Set_movable_separability_2 2D Movable Separability of Sets

Skin_surface_3 3D Skin Surface Meshing
Snap_rounding_2 2D Snap Rounding
Spatial_searching dD Spatial Searching
Straight_skeleton_2 2D Straight Skeleton and Polygon Offsetting
Stream_lines_2 2D Placement of Streamlines
Surface_mesh_deformation Triangulated Surface Mesh Deformation
Surface_mesher 3D Surface Mesh Generation
Surface_mesh Surface Mesh
Surface_mesh_parameterization Triangulated
Surface Mesh Parameterization
Surface_mesh_segmentation Triangulated Surface Mesh Segmentation
Surface_mesh_shortest_path Triangulated Surface Mesh Shortest Paths
Surface_mesh_simplification Triangulated Surface Mesh Simplification
Surface_mesh_skeletonization Triangulated Surface Mesh Skeletonization
Surface_sweep_2 2D Intersection of Curves
TDS_2 2D Triangulation Data Structure
TDS_3 3D Triangulation Data Structure
Three Three
Triangulation_2 2D Triangulation
Triangulation_3 3D Triangulations
Triangulation dD Triangulations
Visibility_2 2D Visibility Computation
Voronoi_diagram_2 2D Voronoi Diagram Adaptor
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./include/CGAL/internal/boost/mutable_queue.hpp
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./include/CGAL/internal/container_fwd_fixed.hpp

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./include/CGAL/auto_link/auto_link.h
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```
#!/bin/zsh
```

```
# Script to be run at the root of a CGAL branch.  
# It scans the license of the files in */include, and write the files  
# */package_info/*/license.txt
```

```
setopt extendedglob
```

```
for p in ^*build*(/); do  
  if [ -d $p/include ]; then  
    licFile=$p/package_info/$p/license.txt  
    l=`licensecheck -r $p/include $p/src | awk -F: '{print $2}' | grep -v BSL | sed -e 's/ *GENERATED FILE//' | sort  
-u`  
    if [ "x`echo $l | wc -l`" = "x1" ]; then  
      echo $l > "$licFile"  
    elif [ -z "`echo $l | grep -Ev '^L?GPL \((v3 or later)\) *$`" ]; then  
      echo 'GPL (v3 or later)' > "$licFile"  
    else  
#      echo "MULTIPLE!" > "$licFile";  
      echo $l > "$licFile"  
    fi  
  fi  
done
```

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AABB_tree	I
Algebraic_foundations	ETIMU
Algebraic_kernel_d	IM
Algebraic_kernel_for_circles	I
Algebraic_kernel_for_spheres	I
Alpha_shapes_2	I
Alpha_shapes_3	I
Apollonius_graph_2	I
Approximate_min_ellipsoid_d	E
Arithmetic_kernel	M
Arrangement_on_surface_2	T
BGL	G
Boolean_set_operations_2	T
Box_intersection_d	M
CGAL_Core	NYU; Chee Yap agreed to upgrade
CGAL_ImageIO	third party lib under LGPL
CGAL_ipelets	I
Cartesian_kernel	ETIMU
Circular_kernel_2	I
Circular_kernel_3	I
Circulator	ETIMU
Combinatorial_map	Cnrs; Guillaume Damiand upgraded
Conic_2	ETIMU
Convex_decomposition_3	M
Convex_hull_2	M
Convex_hull_3	M
Convex_hull_d	M
Developers_manual	ETIMU
Distance_2	ETIMU
Distance_3	ETIMU
Envelope_2	T
Envelope_3	T

Filtered_kernel	I
Generator	ETIMU
Geomview	ETIMU
GraphicsView	G
HalfedgeDS	ETIMU
Hash_map	M
Homogeneous_kernel	ETIMU
Installation	ETIMU
Interpolation	
	I
Intersections_2	ETIMU
Intersections_3	ETIMU
Interval_skip_list	G
Interval_support	M
Inventor	ETIMU
Jet_fitting_3	I
Kernel_23	ETIMU
Kernel_d	ETIMU
LEDA	ETIMU
Largest_empty_rect_2	T
MacOSX	F
Maintenance	ETIMUG
Manual	ETIMU
Manual_tools	EIM, Modena Software, Silicon Graphics
Matrix_search	E
Mesh_2	I
Mesh_3	I
Min_annulus_d	E
Min_circle_2	E
Min_ellipse_2	E
Min_quadrilateral_2	E
Min_sphere_d	E
Min_sphere_of_spheres_d	E
Minkowski_sum_2	T
Minkowski_sum_3	M
Modifier	ETIMU
Modular_arithmetic	MI
Nef_2	M
Nef_3	M
Nef_S2	M
Number_types	ETIMU
OpenNL	third party lib under LGPL 3
Optimisation_basic	E
Optimisation_doc	E
Partition_2	M
Periodic_3_triangulation_3	I
Point_set_2	Halle transfered copyright to Inria
Point_set_processing_3	I

Poisson_surface_reconstruction_3	I
Polygon	ETIMU
Polyhedron	E
Polyhedron_IO	E
Polynomial	
M	
Polytope_distance_d	E
Principal_component_analysis	I
Profiling_tools	ETIMU
QP_solver	E
Qt_widget	I
Random_numbers	ETIMU
Ridges_3	I
Robustness	M
STL_Extension	ETIMU
Scripts	ETIMU
SearchStructures	E
Segment_Delaunay_graph_2	I Menelaos removed Notre Dame U
Set_movable_separability_2	T
Skin_surface_3	R Gert Vegter agreed to upgrade
Snap_rounding_2	T
Spatial_searching	U
Spatial_sorting	I
Straight_skeleton_2	Cacciola; Fernando agreed to upgrade to GPL
Stream_lines_2	I
Stream_support	ETIMU
Subdivision_method_3	G
Surface_mesh_parameterization	I
Surface_mesh_simplification	G
Surface_mesher	I
Testsuite	IG
Triangulation_2	I
Triangulation_3	I
Union_find	M
Voronoi_diagram_2	F I sent mail to Forth
Width_3	E
iostream	ETIMU
kdtree	T
wininst	ETIMU
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1.97 uriparser 0.9.1-1

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

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This package was put together by me, James Troup <james@nocrew.org>, from the sources, which I obtained from <ftp://ftp.gnupg.org/pub/gcrypt/gnupg/gnupg-1.0.5.tar.gz>. The changes were minimal, namely:

- adding support for the Debian package maintenance scheme, by adding various debian/* files.

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1.110 libunwind 1.2.1-10~deb10u1

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1.112 llvm-toolchain-7 7.0.1-8+deb10u2

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docs/GPLv2.TXT
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include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
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src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
```

```
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
#
EOF
```

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1.118 netbase 5.6

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1.119 python3-asn1crypto 0.24.0

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1.120 cryptography 2.6.1

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1.121 python-setuptools 40.8.0

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1.122 google-auth 1.5.1

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1.123 libjpeg-turbo 1.5.2-2+deb10u1

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1.124 colorama 0.3.7

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1.125 pyasn1 0.4.2

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ASN.1 library for Python

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[![GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features

*

Generic implementation of ASN.1 types (X.208)

- * Standards compliant BER/CER/DER codecs
- * Dumps/loads ASN.1 structures from Python types
- * 100% Python, works with Python 2.4 up to Python 3.6
- * MT-safe
- * Contributed ASN.1 compiler [Asn1ate](<https://github.com/kimgr/asn1ate>)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>)
by

Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures.

For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
 id INTEGER,
 room [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```

```python
class Record(Sequence):
 componentType = NamedTypes(
 NamedType('id', Integer()),
 OptionalNamedType(
 'room', Integer().subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
)
),
 DefaultedNamedType(
 'house', Integer(0).subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
)
)
)
```

```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
0000: 30 07 02 01 7B 80 02 01 41
```

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect,

modify, encode and send back.

```
```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>> print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
```python
>>> from pyasn1.codec.native.decoder import decode
>>> record =
decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and

Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.python.org/pypi/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](http://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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ASN.1 library for Python

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```
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   :maxdepth: 1
```

Abstract Syntax Notation One (ASN.1 <http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` <<https://pypi.python.org/pypi/pyasn1/>> library implements ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions <<https://news.ycombinator.com/item?id=8871453>> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <<https://developers.google.com/protocol-buffers/>> or `FlatBuffers` <<https://google.github.io/flatbuffers/>>, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- * Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- * Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic

to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- * Signaling standards for the public switched telephone network (SS7 family)
- * Network management standards (SNMP, CMIP)
- * Directory standards (X.500 family, LDAP)
- * Public Key Infrastructure standards (X.509, etc.)
- * PBX control (CSTA)
- * IP-based Videoconferencing (H.323 family)
- * Biometrics (BIP, CBEFF, ACBio)
- * Intelligent transportation (SAE J2735)
- * Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the ``statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation

```
.. toctree::  
    :maxdepth: 2
```

```
/pyasn1/contents
```

Use case

```
.. toctree::
```

:maxdepth: 2

/example-use-case

Download & Install

.. toctree::

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/download

Changes

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

.. toctree::

:maxdepth: 1

/changelog

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.. toctree::

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Getting help

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>` _ and `PRs` <<https://github.com/etingof/pyasn1/pulls>>` _ at GitHub. Alternatively, you could ask for help at `Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>` _ or search `pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>` _ mailing list archive.

Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <<http://www.oss.com/asn1/dubuisson.html>>` _ by Olivier Dubuisson

* `ASN.1 Complete <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>` _ by Prof John Larmouth

Here you can get the official standards which is hard to read:

* `ITU standards <<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>` _

On the other end of the readability spectrum, here is a quick and sweet write up:

* `A Layman's Guide to a Subset of ASN.1, BER, and DER <<ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>` _ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/pyasn1/type/tagmap.py

* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/pyasn1/codec/native/decoder.py

* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/tests/type/test_constraint.py

* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/pyasn1/compat/calling.py

* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/pyasn1/codec/cer/decoder.py

* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/pyasn1/codec/ber/eoo.py

*

/opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/tests/codec/__main__.py

* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/tests/codec/cer/test_encoder.py

* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-

df3a2b7/pyasn1/debug.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/tests/codec/cer/__main__.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/pyasn1/type/error.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/pyasn1/type/constraint.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/tests/codec/der/test_decoder.py
*
/opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/pyasn1/codec/der/decoder.py
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* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/setup.py
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* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/tests/type/test_namedtype.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/pyasn1/codec/native/encoder.py
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* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/tests/type/test_univ.py
*
/opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/tests/codec/ber/__main__.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/tests/compat/__main__.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/pyasn1/type/namedval.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/pyasn1/codec/ber/decoder.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/tests/codec/cer/test_decoder.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/tests/compat/test_octets.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/tests/codec/ber/test_decoder.py
*
/opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/tests/type/test_tag.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/pyasn1/compat/integer.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-df3a2b7/pyasn1/type/base.py

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* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-
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* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-
df3a2b7/tests/type/test_useful.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-
df3a2b7/tests/codec/der/test_encoder.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-
df3a2b7/tests/type/__main__.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-
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*
/opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-
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* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-
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df3a2b7/tests/codec/native/__main__.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-
df3a2b7/pyasn1/type/tag.py
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df3a2b7/tests/__main__.py
*
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df3a2b7/tests/compat/test_binary.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-
df3a2b7/tests/type/test_char.py
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df3a2b7/tests/codec/native/test_decoder.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-
df3a2b7/pyasn1/compat/octets.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-
df3a2b7/pyasn1/type/opentype.py
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df3a2b7/tests/test_debug.py
* /opt/cola/permits/1114240522_1607457079.84/0/etingof-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/etingof-pyasn1-
df3a2b7/pyasn1/compat/binary.py

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1.126 apt 1.8.2.2

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1.130 p11-kit 0.23.15-2+deb10u1

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1.131 cachetools 3.1.0

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1.132 oauthlib 2.1.0

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1.133 click 7.0

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```
import io
```

```

import re
from setuptools import setup

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

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

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

```

Found in path(s):

```

* /opt/cola/permits/1122666200_1610546895.74/0/pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-
a936b99/setup.py

```

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Click uses parts of optparse written by Gregory P. Ward and maintained by the Python Software Foundation. This is limited to code in parser.py.

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Found in path(s):

* /opt/cola/permits/1122666200_1610546895.74/0/pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/LICENSE.rst

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.. _contrib:

```
=====  
click-contrib  
=====
```

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

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

Please

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

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

Found in path(s):

```
* /opt/cola/permits/1122666200_1610546895.74/0/pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/docs/contrib.rst
```

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

Found in path(s):

```
* /opt/cola/permits/1122666200_1610546895.74/0/pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/click/_compat.py
```

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\\$ click_

```
=====
```

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

It aims to make the process of writing command line tools quick and fun

while also preventing any frustration caused by the inability to implement an intended CLI API.

Click in three points:

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

Installing

Install and update using `pip`_:

.. code-block:: text

```
$ pip install click
```

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

.. _pip: <https://pip.pypa.io/en/stable/quickstart/>

A Simple Example

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

.. code-block:: python

```
import click

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

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

And what it looks like when run:

.. code-block:: text


```
$ python hello.py --count=3
```

```
Your name: Click
```

```
Hello, Click!
```

```
Hello, Click!
```

```
Hello, Click!
```

Donate

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

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

Links

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

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

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

Found in path(s):

```
* /opt/cola/permits/1122666200_1610546895.74/0/pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/README.rst
```

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:license: BSD, see LICENSE.rst for more details.

Found in path(s):

```
* /opt/cola/permits/1122666200_1610546895.74/0/pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/click/___init__.py
```

```
* /opt/cola/permits/1122666200_1610546895.74/0/pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/click/_termui_impl.py
```

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=====

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License Text

```
.. include:: ../LICENSE.rst
```

Found in path(s):

```
* /opt/cola/permits/1122666200_1610546895.74/0/pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/docs/license.rst
```

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Including attribution to #612

Found in path(s):

```
* /opt/cola/permits/1122666200_1610546895.74/0/pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/tests/test_formatting.py
```

1.134 libseccomp 2.3.3-4

1.134.1 Available under license :

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Version 2.1, February 1999

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

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

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

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

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

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

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

uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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1.135 gmp 6.1.2+dfsg-4

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Version 3, 29 June 2007

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

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1.138 zlib 1.2.11.dfsg-1

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1.139 selinux 2.8-1+b1

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1.140 pam 1.3.1-5

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1.141 zstd 1.3.8+dfsg-3

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1.142 popt 1.16-12

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

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

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```
Gnomovision version 69, Copyright (C) 19yy name of author  
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This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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

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1.144 procps 3.3.15-2

1.144.1 Available under license :

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```
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```

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

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

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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it
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```

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necessary. Here is a sample; alter the names:

```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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

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1.147 Icms 2.9-3

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1.149 rtmpdump 2.4+20151223.gitfa8646d.1-2

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1.159 open-ldap 2.4.47+dfsg-3+deb10u5

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1.160 base-files 10.3+deb10u8

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Version 3, 29 June 2007

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

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute
it
under certain conditions; type `show c' for details.
```

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```
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```

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

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

```
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```

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

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

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License.

Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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The End

1.161 adduser 3.118

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1.164 python 3.7.3-1

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This package was put together by Klee Dienes <klee@debian.org> from sources from <ftp.python.org/pub/python>, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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

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

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

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All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| 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 |
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| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
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| 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 |
| 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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1.168 python-setuptools 40.8.0-1

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1.170 six 1.12.0-1

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1.171 python-cffi 1.12.2-1

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1.172 python-dateutil 2.7.3-1.ph3

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dateutil - Extensions to the standard Python datetime module.

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1.173 chardet 3.0.4-3

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1.174 postgresql 12.6

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1.175 kerberos 1.17-3+deb10u1

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
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lib/libgss/g_rel_buffer.c
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c

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
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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Comment:

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See src/backend/snowball/README for details.

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```

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<p>

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<p>

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</td><td valign="top" align="left">

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</table>

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<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. 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 create 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);`

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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.</p>

<p>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/>.

<center>

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</center>

<p>About SQLite</p>

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.

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>

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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.

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<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>

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</body></html>

Found in path(s):

* /opt/cola/permits/1146776895_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/pressrelease-20071212.html

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

public domain and so most

Found in path(s):

* /opt/cola/permits/1146776895_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/famous.html

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

application is free to use the same database connection or the

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* /opt/cola/permits/1146776895_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/capi3ref.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):

* /opt/cola/permits/1146776895_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/docs.html

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

<html>

<head>

<title>SQLite Consortium Agreement</title>

</head>

<body bgcolor="white">

<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

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

WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and

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.

NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:

1.0 Definitions

1.1 SQLite Developers

The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.

1.2 SQLite Architect

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.

1.3 Consortium Member

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.

2.0 Agreement

2.1 Responsibilities And Obligations Of SQLite Developers

2.1.1 General Support

<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.

2.2.4 Continuity

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.

2.3 Responsibilities And Obligations Of Hwaci

2.3.1 Employer

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.

2.3.2 Responsible Party

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.

2.3.3 Multiple Developers

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.

2.3.4 Mentorship

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.

2.3.5 Audits

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.

2.3.6 Disaster Planning

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.

2.3.7 Trademark

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.

2.3.8 No Take-overs or Buy-outs

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.

2.3.9

New Consortium Members

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.

2.3.10 Adequate Staff

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.

2.3.11 Use Of Funds

<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.</p>

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):

* /opt/cola/permits/1146776895_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/consortium_agreement-20071201.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):

* /opt/cola/permits/1146776895_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/support.html

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

[public domain](copyright.html). No claim of ownership is made

Found in path(s):

* /opt/cola/permits/1146776895_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/faq.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):

* /opt/cola/permits/1146776895_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/custombuild.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):

* /opt/cola/permits/1146776895_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/about.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; &#amp;gt; &#amp;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 -noblack $s]
}
if {[regsub -all [{"{}]} $s {[wappInt-%HHchar \&]} s]} {
    set s [subst -novar -noblack $s]
}
return $s
}
proc wappInt-enc-qp {s} {
if {[regsub -all [{"^-}_a-zA-Z0-9]} $s {[wappInt-%HHchar {&}] s]} {
    set s [subst -novar -noblack $s]
}
if {[regsub -all [{"{}]} $s {[wappInt-%HHchar \&]} s]} {
    set s [subst -novar -noblack $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]+[^\173]) $x all cx]} {
      append res "$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 [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 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]]
  }
}
} 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
$qsplit 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 [[index $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 PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
<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 {}}
    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 IRowid [db eval $sql] }] } {
    set x ""
    foreach word [split $q " "] {
      append x " \"[string map [list "\" \"\"] $word]\""
    }
    set q [string trim $x]
    set IRowid [db eval $sql]
  }

  set IRes [list]
  foreach rowid $IRowid {
    if {$rowid > 1000} {
      set parent [expr $rowid / 1000]

```



```

    lappend subsections($parent) $rowid
  } else {
    lappend IRes $rowid
  }
}

set nRes [llength $IRes]
set IRes [lrange
$IRes $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 $IRes] == 0} {
  wapp-subst {<p>No Results for: <b>%html($q)</b>\n}
}

# 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 $iRowid ,]] {
  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 $IRes {

  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 -- $altfile {
    *.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):

* /opt/cola/permits/1146776895_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/search

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):

* /opt/cola/permits/1146776895_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/atomiccommit.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):

* /opt/cola/permits/1146776895_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/rtree.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):

* /opt/cola/permits/1146776895_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/books.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):

* /opt/cola/permits/1146776895_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/walformat.html

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

public domain.

Found in path(s):

* /opt/cola/permits/1146776895_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/changes.html

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

other proprietary or non-standard VFSes.

Found in path(s):

* /opt/cola/permits/1146776895_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/uri.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 writes "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
    reesub -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
    reesub -all {\n\s+} [string
    trim $txt] \n txt
    reesub -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 {& &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]+([\n]+)} $x all cx]} {
        append res "$p:$ln: unsafe \"wapp-$cx\"
        call: \"[string trim $x]\"\n"
      }
    }
  }
  return $res
}

# Return a string that descripts 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 $qsplit 0]
            if {[regexp {^[a-z][-a-z0-9_]*$} $nm]} {
                dict set wapp $nm [wappInt-decode-url
[lindex $qsplit 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
$qsplitt 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
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 [[index $arglist $i]
  }
  -local {
    incr i;
    set mode "local"
    set port [[index $arglist $i]
  }
  -scgi {
    incr i;
    set mode "scgi"
    set port [[index $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 PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
        <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>
</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>
}
}

```

```

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 {$sUnique} {
  if {[info exists seen($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):

* /opt/cola/permits/1146776895_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/search.d/admin

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access to all proprietary extensions and test suites.

access to all proprietary extensions and test suites.

public domain,</p></div>
<div data-bbox="148 191 270 207" data-label="Text">
<p>Found in path(s):</p>
</div>
<div data-bbox="148 209 889 225" data-label="Text">
<p>* /opt/cola/permits/1146776895_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/prosupport.html</p>
</div>
<div data-bbox="57 256 510 287" data-label="Section-Header">
<h2>1.183 python-click 7.0-1</h2>
</div>
<div data-bbox="57 291 473 311" data-label="Section-Header">
<h3>1.183.1 Available under license :</h3>
</div>
<div data-bbox="148 314 613 330" data-label="Text">
<p>No license file was found, but licenses were detected in source scan.</p>
</div>
<div data-bbox="148 351 594 366" data-label="Text">
<p># binary only, patch it back to the system, and then use a wrapper</p>
</div>
<div data-bbox="148 387 270 402" data-label="Text">
<p>Found in path(s):</p>
</div>
<div data-bbox="148 404 900 420" data-label="Text">
<p>* /opt/cola/permits/1151307268_1617841570.33/0/python-click-7-0-orig-1-tar-gz/Click-7.0/click/_compat.py</p>
</div>
<div data-bbox="148 422 613 437" data-label="Text">
<p>No license file was found, but licenses were detected in source scan.</p>
</div>
<div data-bbox="148 458 485 473" data-label="Text">
<p>:license: BSD, see LICENSE.rst for more details.</p>
</div>
<div data-bbox="148 493 270 508" data-label="Text">
<p>Found in path(s):</p>
</div>
<div data-bbox="148 511 898 526" data-label="Text">
<p>* /opt/cola/permits/1151307268_1617841570.33/0/python-click-7-0-orig-1-tar-gz/Click-7.0/click/__init__.py</p>
</div>
<div data-bbox="148 528 936 544" data-label="Text">
<p>* /opt/cola/permits/1151307268_1617841570.33/0/python-click-7-0-orig-1-tar-gz/Click-7.0/click/_termui_impl.py</p>
</div>
<div data-bbox="148 546 613 561" data-label="Text">
<p>No license file was found, but licenses were detected in source scan.</p>
</div>
<div data-bbox="148 582 217 597" data-label="Text">
<p>\\$ click_</p>
</div>
<div data-bbox="149 603 248 613" data-label="Text">
<p>=====</p>
</div>
<div data-bbox="148 635 644 703" data-label="Text">
<p>Click is a Python package for creating beautiful command line interfaces in a composable way with as little code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with sensible defaults out of the box.</p>
</div>
<div data-bbox="148 724 642 775" data-label="Text">
<p>It aims to make the process of writing command line tools quick and fun while also preventing any frustration caused by the inability to implement an intended CLI API.</p>
</div>
<div data-bbox="148 795 295 810" data-label="Text">
<p>Click in three points:</p>
</div>
<div data-bbox="148 830 510 882" data-label="List-Group">

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

</div>
<div data-bbox="196 942 576 958" data-label="Page-Footer">
<p>Open Source Used In Test-TimeScale-DB-Image 11.3 1462</p>
</div>

Installing

Install and update using `pip`:

```
.. code-block:: text
```

```
$ pip install click
```

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

```
.. _pip: https://pip.pypa.io/en/stable/quickstart/
```

A Simple Example

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

```
.. code-block:: python
```

```
import click

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

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

And what it looks like when run:

```
.. code-block:: text
```

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

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Links

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

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

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

Found in path(s):

* /opt/cola/permits/1151307268_1617841570.33/0/python-click-7-0-orig-1-tar-gz/Click-7.0/README.rst

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```
import io
import re
from setuptools import setup

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

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

setup(
    name="Click",
    version=version,
    url="https://palletsprojects.com/p/click/",
    project_urls={
        "Documentation": "https://click.palletsprojects.com/",
        "Code": "https://github.com/pallets/click",
        "Issue tracker": "https://github.com/pallets/click/issues",
    },
    license="BSD",
```

```

author="Armin Ronacher",
author_email="armin.ronacher@active-4.com",
maintainer="Pallets Team",
maintainer_email="contact@palletsprojects.com",
description="Composable command line interface toolkit",
long_description=readme,
packages=["click"],
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*,
!=3.2.*, !=3.3.*",
classifiers=[
    "Development Status :: 5 - Production/Stable",
    "Intended Audience :: Developers",
    "License :: OSI Approved :: BSD License",
    "Operating System :: OS Independent",
    "Programming Language :: Python",
    "Programming Language :: Python :: 2",
    "Programming Language :: Python :: 2.7",
    "Programming Language :: Python :: 3",
    "Programming Language :: Python :: 3.4",
    "Programming Language :: Python :: 3.5",
    "Programming Language :: Python :: 3.6",
    "Programming Language :: Python :: 3.7",
],
)

```

Found in path(s):

* /opt/cola/permits/1151307268_1617841570.33/0/python-click-7-0-orig-1-tar-gz/Click-7.0/setup.py

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Including attribution to #612

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* /opt/cola/permits/1151307268_1617841570.33/0/python-click-7-0-orig-1-tar-gz/Click-7.0/tests/test_formatting.py

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License

=====

Click is licensed under a three-clause BSD License. It basically means:

do whatever you want with it as long as the copyright in Click sticks around, the conditions are not modified and the disclaimer is present.

Furthermore, you must not use the names of the authors to promote derivatives of the software without written consent.

License Text

```
.. include:: ../LICENSE.rst
```

Found in path(s):

```
* /opt/cola/permits/1151307268_1617841570.33/0/python-click-7-0-orig-1-tar-gz/Click-7.0/docs/license.rst
```

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Metadata-Version: 1.2

Name: Click

Version: 7.0

Summary: Composable command line interface toolkit

Home-page: <https://palletsprojects.com/p/click/>

Author: Armin Ronacher

Author-email: armin.ronacher@active-4.com

Maintainer: Pallets Team

Maintainer-email: contact@palletsprojects.com

License: BSD

Project-URL: Documentation, <https://click.palletsprojects.com/>

Project-URL: Code, <https://github.com/pallets/click>

Project-URL: Issue tracker, <https://github.com/pallets/click/issues>

Description: \ \$ click _

```
=====
```

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

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

Click in three points:

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

Installing

```
-----
```

Install and update using `pip`_:

```
.. code-block:: text
```

```
$ pip install click
```

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

.. _pip: <https://pip.pypa.io/en/stable/quickstart/>

A Simple Example

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

.. code-block:: python

```
import click

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

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

And what it looks like when run:

.. code-block:: text

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

Donate

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

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Links

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

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming

Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*

Found in path(s):

* /opt/cola/permits/1151307268_1617841570.33/0/python-click-7-0-orig-1-tar-gz/Click-7.0/Click.egg-info/PKG-INFO

* /opt/cola/permits/1151307268_1617841570.33/0/python-click-7-0-orig-1-tar-gz/Click-7.0/PKG-INFO

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.. _contrib:

=====

click-contrib

=====

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled

with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

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

Please

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

.. `_click-contrib`: <https://github.com/click-contrib/>

Found in path(s):

* `/opt/cola/permits/1151307268_1617841570.33/0/python-click-7-0-orig-1-tar-gz/Click-7.0/docs/contrib.rst`

1.184 go-colorable v0.1.4

1.184.1 Available under license :

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1.185 pystache 0.5.4

1.185.1 Available under license :

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1.186 postgresql 11.11

1.186.1 Available under license :

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1.187 debian-archive-keyring 2019.1

1.187.1 Available under license :

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<mvo@debian.org>

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based on the debian-keyring package maintained by James Troup

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1.190 libyaml 0.2.1 1

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1.191 python 3.7.3 2+deb10u3

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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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A. HISTORY OF THE SOFTWARE
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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
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2.4	2.3	2004	PSF	yes
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2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
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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
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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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.192 python-cachetools 3.1.0-2

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1.193 pbnjay-memory v0.0.0-20190104145345-974d429e7ae4

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1.196 python-etcd 0.4.5-1.ph2

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- * erikcederstrand <<http://code.google.com/u/erikcederstrand/>>
- * NTLM-authenticated HTTPSConnectionPool
- * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

- * niphlod <niphlod@gmail.com>
- * Client-verified SSL certificates for HTTPSConnectionPool
- * Response gzip and deflate encoding support
- * Better unicode support for filepost using StringIO buffers

- * btoconnor <brian@btoconnor.net>
- * Non-multipart encoding for POST requests

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- * studer <theo.studer@gmail.com>
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- * Shivaram Lingamneni <slingamn@cs.stanford.edu>
- * Support for explicitly closing pooled connections

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- * Akamai
(through Jesse Shapiro) <jshapiro@akamai.com>
- * Ongoing maintenance

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

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

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

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

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

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

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

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

- * [Your name or handle] <[email or website]>
- * [Brief summary of your changes]

1.198 python-certifi 2018.08.24-1.ph3

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1.202 pyjwt 1.7.0

1.202.1 Available under license :

The MIT License (MIT)

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1.203 daemon-tools 0.76-7

1.203.1 Available under license :

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

```
/* Public domain. */
```

```
/* sysdep: -sigaction */
```

Found in path(s):

```
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hassgact.h1
```

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

```
/* Public domain. */
```

```
/* sysdep: +waitpid */
```

```
#define HASWAITPID 1
```

Found in path(s):

```
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/haswaitp.h2
```

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

```
/* Public domain. */
```

```
#ifndef UINT64_H
```

```
#define UINT64_H
```

```
/* sysdep: -ulong64 */
```

```
typedef unsigned long long uint64;
```

#endif

Found in path(s):

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/uint64.h1

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

/* Public domain. */

/* sysdep: +mkfifo */

#define HASMKFIFO 1

Found in path(s):

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasmkfho.h2

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

/* Public domain. */

#ifndef UINT64_H

#define UINT64_H

/* sysdep: +ulong64 */

typedef unsigned long uint64;

#endif

Found in path(s):

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/uint64.h2

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

/* Public domain. */

/* sysdep: -waitpid */

Found in path(s):

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/haswaitp.h1

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

/* Public domain. */

/* sysdep: +shortsetgroups */

#define HASSHORTSETGROUPS 1

Found in path(s):

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasshsgr.h2

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

/* Public domain. */

/* sysdep: -flock */

Found in path(s):

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasflock.h1

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

/* Public domain. */

/* sysdep: -sigprocmask */

Found in path(s):

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasgprm.h1

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

/* Public domain. */

/* sysdep: -shortsetgroups */

Found in path(s):

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasshsgr.h1

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

/* Public domain. */

/* sysdep: +flock */

#define HASFLOCK 1

Found in path(s):

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasflock.h2

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

/* Public domain. */

Found in path(s):

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/taia_less.c

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-

```

0.76/src/sig_pause.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/ndelay.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/x86cpuid.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/trypoll.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/str_start.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/ndelay_on.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/stralloc_eady.c
*
/opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/stralloc.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/byte_copy.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/trycpp.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/strerr_sys.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/fd_copy.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/byte_rchr.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/strerr.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/buffer_get.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/stralloc_pend.c
*
/opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/buffer.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/wait_pid.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/stralloc_cats.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/pathexec_env.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/tryulong64.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/buffer.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/taia.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/open_write.c

```

```

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/openreadclose.c
*
/opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/trymkffo.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/wait.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/pathexec_run.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/tai_unpack.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/chkshsgr.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer_write.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/tai_now.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fmt_uint0.c
*
/opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/open.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/pathexec.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fd_move.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer_1.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/buffer_read.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/env.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/tai.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/str_len.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/stralloc_opyb.c
*
/opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/str_diff.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/taia_add.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fifo.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fmt_ulong.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/env.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fifo.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/lock.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-

```

```

0.76/src/stralloc_catb.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/taia_uint.c
*
/opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/open_append.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/stralloc_opys.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/alloc.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/trysgprm.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/sig_block.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/alloc.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/sig.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/taia_approx.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/sig.c
*
/opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/trysysel.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/taia_now.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/str_chr.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/taia_pack.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/buffer_2.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/subgetopt.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fmt.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/taia_sub.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/iopause.h2
*
/opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/fmt_uint.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/subgetopt.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/byte_chr.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/buffer_0.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-

```

```

0.76/src/trydrent.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/tai_pack.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/byte_diff.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/iopause.h1
*
/opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/open_trunc.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/str.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/ndelay_off.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/openreadclose.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/scan.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/sgetopt.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/direntry.h2
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/gen_alloc.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/scan_ulong.c
*
/opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/sgetopt.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/lock_exnb.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/taia_frac.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/tryshsgr.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/select.h2
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/select.h1
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/trywaitp.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/lock_ex.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/strerr_die.c
*
/opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/byte_cr.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-

```



```

0.76/src/error.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/gen_allocdefs.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/error.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/open_read.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/error_str.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/seek.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/readclose.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
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0.76/src/wait_nohang.c
*
/opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/byte.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/fd.h
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/coe.c
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0.76/src/tai_sub.c
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* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
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* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/stralloc_cat.c
* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-
0.76/src/seek_set.c
No license file was found, but licenses were detected in source scan.

```

/* Public domain. */

/* sysdep: +sigaction */

#define HASSIGACTION 1

Found in path(s):

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hassgact.h2

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/* Public domain. */

/* sysdep: +sigprocmask */

#define HASSIGPROCMASK 1

Found in path(s):

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hassgprm.h2

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

/* Public domain. */

/* sysdep: -mkfifo */

Found in path(s):

* /opt/cola/permits/1146929125_1617008988.83/0/daemontools-0-76-orig-tar-gz/admin/daemontools-0.76/src/hasmkffo.h1

1.204 linux-libc-dev 4.19.171-2

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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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* along with this program; if not, write to the Free Software
* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

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1.205 chardet 3.0.4-2.ph4

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1.206 prettytable 0.7.2-7.ph4

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1.208 Isb 10.2019051400

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Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>
Upstream-Name: LSB implementation package

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1.209 go-isatty v0.0.11

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1.210 postgresql-hll 2.15.1-1.pgdg100+1

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1.211 boost 1.67.0-13+deb10u1

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The debian/copyright file for Boost is very complicated, because the library has accumulated a huge number of files and contributors over the years. It would be intractable to fill it by hand, and FTP masters do not like the previous choice to just generically indicate the Boost Software License and see each individual file for the differences.

Fortunately Boost itself already contains a small program, called bcp, that searches for common regular expressions in each file to find the file's license and copyright holders. The program has some deficiencies, but is overall a good foundation to automatically generate a debian/copyright file.

A patched fork of the bcp program is maintained by Giovanni Mascellani in the repository [1].

[1] <https://salsa.debian.org/gio/boost-copyright>

It can be compiled with qmake and make. Then you change dir to where you have unpacked the Boost tarball and run something like:

```
find
-type f | grep -v ^./debian/ | grep -v ^./pc/ | bcp --report-debian --read-from-stdin debian/copyright
```


This will erase and regenerate the debian/copyright file. The boost-copyright repository already contains a skeleton of the copyright file (called manual_copyright), which is automatically included at the beginning of the generated file.

Since bcp cannot identify the copyright status for each single file, because some of them do not actually contain such information, the manual_copyright file contains some blanket stanzas for the main Boost directories, so that the copyright for each not better identified file is (reasonably) assigned to the people responsible for that subdirectory. The subdirectories loosely correspond to the individual Boost libraries. Also, a public domain dedication is presumed for the few and very simple files that are neither recognized by the program, neither contained in one of the well-known subdirectories.

The script generator.py, in the boost-copyright repository, can be used to manually regenerate most of manual_copyright based on the meta/repositories.json files available in the Boost distribution. However it is recommended to carefully check its output, because there will be some inaccuracies.

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

Upstream-Name: Boost

Upstream-Contact: <https://www.boost.org/>

Files-Excluded:

*.o

*.js

*.rc

*.chm

*.vcproj

*.vcxproj

*.vcxproj.filters

*/resource.h

*/.gitignore

*/.gitattributes

*/.gitmodules

libs/beast/test/extern/zlib-1.2.11/contrib/*

libs/beast/test/extern/zlib-1.2.11/doc/*

libs/gil/doc/html/*

libs/locale/doc/html/*

libs/sort/doc/doxygen/html/*

doc/images/valid-html401.png

tools/build/src/engine/boehm_gc/config.guess

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libs/spirit/include/boost/spirit/home/x3/core/parser.hpp
libs/spirit/include/boost/spirit/home/x3/directive/skip.hpp
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libs/mpl/test/zip_view.cpp
libs/type_traits/include/boost/type_traits/detail/bool_trait_def.hpp
libs/type_traits/include/boost/type_traits/detail/bool_trait_undef.hpp
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libs/graph/include/boost/graph/detail/sparse_ordering.hpp

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libs/winapi/include/boost/winapi/tls.hpp
libs/winapi/include/boost/winapi/waitable_timer.hpp
libs/winapi/test/compile/decl_header.cpp
libs/winapi/test/compile/windows_h_post.cpp
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libs/callable_traits/test/remove_transaction_safe_constraints.cpp
libs/callable_traits/test/remove_varargs.cpp
libs/callable_traits/test/remove_varargs_constraints.hpp
libs/callable_traits/test/return_type.cpp
libs/callable_traits/test/test.hpp

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Files:

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libs/date_time/include/boost/date_time/c_local_time_adjustor.hpp
libs/date_time/include/boost/date_time/c_time.hpp
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libs/chrono/example/await_keystroke.cpp
libs/chrono/example/chrono_unit_test.cpp
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libs/disjoint_sets/index.html
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libs/exception/index.html
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libs/smart_ptr/example/scoped_ptr_example.cpp
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tools/auto_index/src/tiny_xml.cpp
tools/auto_index/src/tiny_xml.hpp
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tools/inspect/index.html
tools/inspect/license_check.cpp
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libs/asio/test/latency/allocator.hpp
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libs/beast/example/http/server/fast/http_server_fast.cpp
libs/beast/example/http/server/small/http_server_small.cpp
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libs/asio/include/boost/asio/ip/impl/network_v6.hpp
libs/asio/include/boost/asio/ip/network_v4.hpp
libs/asio/include/boost/asio/ip/network_v6.hpp
libs/asio/test/ip/network_v4.cpp
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libs/asio/include/boost/asio/detail/impl/win_iocp_handle_service.ipp
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libs/asio/include/boost/asio/impl/serial_port_base.hpp
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libs/fusion/example/extension/detail/key_of_impl.hpp

libs/fusion/example/extension/detail/value_of_data_impl.hpp

libs/fusion/include/boost/fusion/adapted/adt/adapt_assoc_adt_named.hpp

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libs/fusion/include/boost/fusion/adapted/adt/detail/adapt_base.hpp

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tools/build/src/engine/hdrmacro.h
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tools/build/src/engine/jambase.h
tools/build/src/engine/lists.c
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tools/build/src/engine/make1.c
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libs/iostreams/include/boost/iostreams/detail/template_params.hpp
libs/iostreams/include/boost/iostreams/detail/translate_int_type.hpp
libs/iostreams/include/boost/iostreams/detail/wrap_unwrap.hpp
libs/iostreams/include/boost/iostreams/device/array.hpp
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libs/iostreams/src/bzip2.cpp
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libs/icl/example/dynamic_interval_/dynamic_interval.cpp

libs/icl/example/interval_/interval.cpp

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libs/icl/example/partys_height_average_/partys_height_average.cpp

libs/icl/example/partys_tallest_guests_/partys_tallest_guests.cpp

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libs/icl/include/boost/icl/interval_base_map.hpp

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tools/build/src/tools/types/asm.py

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Steven Watanabe

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Files:

tools/build/src/tools/cray.jam

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Files:

libs/config/include/boost/config/compiler/cray.hpp

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Files:

libs/container/test/insert_test.hpp
libs/graph/test/adjacency_matrix_test.cpp

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Files:

libs/date_time/build/Jamfile.v2
libs/date_time/doc/index.html
libs/date_time/example/gregorian/date_serialization_demo.cpp
libs/date_time/example/gregorian/dates_as_strings.cpp
libs/date_time/example/gregorian/days_alive.cpp
libs/date_time/example/gregorian/days_between_new_years.cpp
libs/date_time/example/gregorian/days_since_year_start.cpp
libs/date_time/example/gregorian/days_till_new_year.cpp
libs/date_time/example/gregorian/end_of_month_day.cpp
libs/date_time/example/gregorian/find_last_day_of_months.cpp
libs/date_time/example/gregorian/Jamfile.v2
libs/date_time/example/gregorian/localization.cpp
libs/date_time/example/gregorian/month_add.cpp
libs/date_time/example/gregorian/period_calc.cpp
libs/date_time/example/gregorian/print_holidays.cpp
libs/date_time/example/gregorian/print_month.cpp
libs/date_time/example/Jamfile
libs/date_time/example/local_time/calc_rules.cpp
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libs/date_time/example/local_time/local_date_time.cpp
libs/date_time/example/local_time/seconds_since_epoch.cpp
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libs/date_time/xmldoc/posix_time.xml
libs/date_time/xmldoc/posix_time_zone.xml
libs/date_time/xmldoc/ptime_class.xml
libs/date_time/xmldoc/README
libs/date_time/xmldoc/ref_tag_fix.pl

libs/date_time/xmldoc/references.xml
libs/date_time/xmldoc/serialization.xml
libs/date_time/xmldoc/snap_to_details.xml
libs/date_time/xmldoc/table_template.xml
libs/date_time/xmldoc/terminology.xml
libs/date_time/xmldoc/tests.xml
libs/date_time/xmldoc/time_duration.xml
libs/date_time/xmldoc/time_facet.xml
libs/date_time/xmldoc/time_input_facet.xml
libs/date_time/xmldoc/time_iterators.xml
libs/date_time/xmldoc/time_period.xml
libs/date_time/xmldoc/time_zone_base.xml
libs/date_time/xmldoc/tradeoffs.xml
libs/date_time/xmldoc/tz_database.xml
libs/date_time/xmldoc/usage_examples.xml

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Files:

libs/date_time/xmldoc/Jamfile.v2

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Files:

libs/date_time/include/boost/date_time.hpp
libs/date_time/include/boost/date_time/constrained_value.hpp
libs/date_time/include/boost/date_time/date_defs.hpp
libs/date_time/include/boost/date_time/gregorian/greg_calendar.hpp
libs/date_time/include/boost/date_time/gregorian/greg_date.hpp
libs/date_time/include/boost/date_time/gregorian/greg_day.hpp
libs/date_time/include/boost/date_time/gregorian/greg_day_of_year.hpp
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libs/date_time/include/boost/date_time/gregorian_calendar.hpp
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libs/date_time/include/boost/date_time/locale_config.hpp
libs/date_time/include/boost/date_time/parse_format_base.hpp
libs/date_time/include/boost/date_time/posix_time/posix_time_duration.hpp
libs/date_time/include/boost/date_time/posix_time/posix_time_system.hpp
libs/date_time/include/boost/date_time/posix_time/posix_time_types.hpp
libs/date_time/include/boost/date_time/posix_time/ptime.hpp
libs/date_time/include/boost/date_time/posix_time/time_parsers.hpp
libs/date_time/include/boost/date_time/posix_time/time_period.hpp
libs/date_time/include/boost/date_time/special_defs.hpp
libs/date_time/include/boost/date_time/special_values_formatter.hpp

libs/date_time/include/boost/date_time/strings_from_facet.hpp
libs/date_time/include/boost/date_time/time_defs.hpp
libs/date_time/include/boost/date_time/time_zone_names.hpp
libs/date_time/include/boost/date_time/year_month_day.hpp
libs/date_time/src/date_time.doc
libs/date_time/src/gregorian/gregorian_types.cpp
libs/date_time/src/posix_time/posix_time_types.cpp
libs/date_time/test/gregorian/testcurrent_day.cpp
libs/date_time/test/gregorian/testformat_date_parser.cpp
libs/date_time/test/gregorian/testgreg_cal.cpp
libs/date_time/test/gregorian/testgreg_day.cpp
libs/date_time/test/gregorian/testgreg_month.cpp
libs/date_time/test/gregorian/testgreg_year.cpp
libs/date_time/test/gregorian/testperiod.cpp
libs/date_time/test/local_time/testlocal_time_period.cpp
libs/date_time/test/posix_time/testc_local_adjustor.cpp
libs/date_time/test/posix_time/testclock.cpp
libs/date_time/test/posix_time/testdst_rules.cpp
libs/date_time/test/posix_time/testlocal_adjustor.cpp
libs/date_time/test/posix_time/testperiod.cpp
libs/date_time/test/posix_time/testtime_period.cpp
libs/date_time/test/testconstrained_value.cpp
libs/date_time/test/testfrom_facet.cpp
libs/date_time/test/testgregorian_calendar.cpp
libs/date_time/test/testint64_range.cpp
libs/date_time/test/testtime_resolution_traits.cpp

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Files:

libs/fusion/include/boost/fusion/adapted/adt/detail/adapt_base_assoc_attr_filler.hpp

libs/fusion/include/boost/fusion/adapted/adt/detail/adapt_base_attr_filler.hpp

libs/fusion/include/boost/fusion/adapted/struct/detail/adapt_auto.hpp
libs/fusion/include/boost/fusion/adapted/struct/detail/adapt_base_assoc_attr_filler.hpp
libs/fusion/include/boost/fusion/adapted/struct/detail/adapt_base_attr_filler.hpp
libs/fusion/include/boost/fusion/adapted/struct/detail/adapt_is_tpl.hpp

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Files:

libs/fusion/test/compile_time/driver.hpp
libs/fusion/test/compile_time/fold.cpp
libs/fusion/test/compile_time/Makefile
libs/fusion/test/compile_time/transform.cpp
libs/fusion/test/compile_time/vector_construction.cpp
libs/fusion/test/compile_time/vector_intrinsic.cpp
libs/fusion/test/compile_time/vector_iteration.cpp

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Files:

libs/phoenix/include/boost/phoenix/stl/algorithm/querying.hpp

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Files:

libs/fusion/include/boost/fusion/algorithm/query/any.hpp

libs/fusion/include/boost/fusion/algorithm/query/detail/any.hpp

libs/fusion/test/algorithm/any.cpp

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libs/phoenix/test/algorithm/querying.cpp

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libs/fusion/test/sequence/back_extended_deque.cpp

libs/fusion/test/sequence/deque_comparison.cpp

libs/fusion/test/sequence/deque_construction.cpp

libs/fusion/test/sequence/deque_copy.cpp

libs/fusion/test/sequence/deque_make.cpp

libs/fusion/test/sequence/deque_misc.cpp

libs/fusion/test/sequence/deque_tie.cpp

libs/fusion/test/sequence/deque_value_at.cpp

libs/fusion/test/sequence/front_extended_deque.cpp
libs/fusion/test/sequence/map_comparison.cpp
libs/fusion/test/sequence/map_construction.cpp
libs/fusion/test/sequence/map_copy.cpp
libs/fusion/test/sequence/map_misc.cpp

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Files:

libs/fusion/doc/acknowledgements.qbk
libs/fusion/doc/container.qbk
libs/fusion/doc/extension.qbk
libs/fusion/doc/introduction.qbk
libs/fusion/doc/iterator.qbk
libs/fusion/doc/organization.qbk
libs/fusion/doc/preface.qbk
libs/fusion/doc/quick_start.qbk
libs/fusion/doc/support.qbk
libs/fusion/doc/tuple.qbk
libs/fusion/doc/view.qbk
libs/fusion/example/extension/detail/advance_impl.hpp
libs/fusion/example/extension/detail/at_impl.hpp
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libs/fusion/example/extension/example_struct.hpp
libs/fusion/example/extension/example_struct_iterator.hpp
libs/fusion/example/extension/example_struct_type.hpp
libs/fusion/example/extension/Jamfile
libs/fusion/example/extension/tag_of.hpp
libs/fusion/example/extension/test_example.cpp
libs/fusion/example/performance/accumulate.cpp

libs/fusion/example/performance/inner_product.cpp
libs/fusion/example/performance/inner_product2.cpp
libs/fusion/example/performance/Jamfile
libs/fusion/include/boost/fusion/adapted.hpp
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libs/fusion/include/boost/fusion/view/zip_view/zip_view_iterator.hpp
libs/fusion/include/boost/fusion/view/zip_view/zip_view_iterator_fwd.hpp
libs/fusion/test/algorithm/all.cpp
libs/fusion/test/algorithm/filter.cpp
libs/fusion/test/algorithm/fold.cpp
libs/fusion/test/algorithm/join.cpp
libs/fusion/test/algorithm/none.cpp
libs/fusion/test/algorithm/transform.cpp
libs/fusion/test/algorithm/zip.cpp
libs/fusion/test/algorithm/zip2.cpp
libs/fusion/test/algorithm/zip_ignore.cpp
libs/fusion/test/sequence/adapt_assoc_struct.cpp
libs/fusion/test/sequence/deque_iterator.cpp
libs/fusion/test/sequence/map_tie.cpp
libs/fusion/test/sequence/swap.cpp
libs/fusion/test/sequence/zip_view.cpp
libs/fusion/test/sequence/zip_view2.cpp
libs/fusion/test/sequence/zip_view_ignore.cpp
libs/phoenix/test/algorithm/iteration.cpp
libs/phoenix/test/algorithm/querying2.cpp
libs/phoenix/test/algorithm/transformation1.cpp
libs/phoenix/test/algorithm/transformation2.cpp
libs/phoenix/test/algorithm/transformation3.cpp
libs/phoenix/test/algorithm/transformation4.cpp

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Files:

libs/phoenix/test/algorithm/for_each.cpp
libs/phoenix/test/algorithm/for_each2.cpp
libs/phoenix/test/algorithm/for_test.cpp
libs/phoenix/test/algorithm/for_test2.cpp
libs/phoenix/test/operator/member.cpp
libs/phoenix/test/regression/bug5824.cpp
libs/phoenix/test/regression/bug6268.cpp
libs/phoenix/test/regression/bug7165.cpp
libs/phoenix/test/regression/bug7166.cpp
libs/phoenix/test/regression/bug7624.cpp
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libs/math/test/Jamfile.v2
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libs/accumulators/test/weighted_mean.cpp
libs/accumulators/test/weighted_p_square_quantile.cpp
libs/accumulators/test/weighted_pot_quantile.cpp
libs/config/test/boost_no_decltype_n3276.ipp
libs/foreach/doc/foreach.qbk
libs/foreach/doc/Jamfile.v2
libs/foreach/include/boost/foreach.hpp
libs/foreach/include/boost/foreach_fwd.hpp
libs/foreach/index.html
libs/foreach/test/array_byref.cpp
libs/foreach/test/array_byref_r.cpp
libs/foreach/test/array_byval.cpp
libs/foreach/test/array_byval_r.cpp

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libs/foreach/test/cstr_byval_r.cpp
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libs/lambda/include/boost/lambda/algorithm.hpp
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libs/polygon/test/gtl_boost_unit_test.cpp
libs/polygon/test/Jamfile.v2
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Files:
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libs/assert/test/assert_is_void_test.cpp
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libs/fusion/include/boost/fusion/sequence/io/detail/manip.hpp
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libs/fusion/include/boost/fusion/sequence/comparison/detail/greater_equal.hpp
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libs/fusion/include/boost/fusion/sequence/comparison/detail/not_equal_to.hpp
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libs/fusion/test/sequence/make.hpp
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libs/core/test/eif_member_templates.cpp
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libs/compute/test/test_merge_sort_gpu.cpp
libs/compute/test/test_radix_sort_by_key.cpp
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libs/fusion/include/boost/fusion/view/flatten_view/flatten_view.hpp
libs/fusion/include/boost/fusion/view/flatten_view/flatten_view_iterator.hpp
libs/fusion/test/algorithm/flatten.cpp
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libs/spirit/include/boost/spirit/home/x3/support/utility/is_callable.hpp
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libs/spirit/include/boost/spirit/repository/home/qi/directive/seek.hpp
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libs/predef/include/boost/predef/library/c/cloudabi.h
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libs/circular_buffer/index.html

libs/circular_buffer/test/constant_erase_test.cpp

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libs/circular_buffer/example/circular_buffer_bound_example.cpp
libs/circular_buffer/example/circular_buffer_example.cpp
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libs/hana/include/boost/hana/detail/hash_table.hpp
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libs/hana/include/boost/hana/find_if.hpp
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libs/hana/test/ext/boost/fusion/deque/auto/index_if.cpp
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libs/beast/include/boost/beast/zlib/detail/inflate_stream.hpp
libs/beast/include/boost/beast/zlib/detail/ranges.hpp
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libs/random/doc/random.qbk

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libs/random/include/boost/random/subtract_with_carry.hpp
libs/random/include/boost/random/uniform_01.hpp
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libs/random/include/boost/random/uniform_real.hpp
libs/random/include/boost/random/uniform_smallint.hpp
libs/random/include/boost/random/xor_combine.hpp
libs/random/performance/nondet_random_speed.cpp
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libs/graph/include/boost/graph/two_bit_color_map.hpp
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libs/disjoint_sets/include/boost/pending/detail/disjoint_sets.hpp

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tools/boostbook/xsl/callout.xsl
tools/quickbook/src/code_snippet.cpp
tools/quickbook/src/collector.cpp
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Files:

libs/utility/include/boost/utility/binary.hpp

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Files:

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libs/math/test/compile_test/tanh_sinh_concept_test.cpp
libs/math/test/compile_test/tanh_sinh_incl_test.cpp
libs/math/test/compile_test/trapezoidal_concept_test.cpp
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libs/range/include/boost/range/detail/collection_traits_detail.hpp

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libs/graph/include/boost/graph/cycle_canceling.hpp
libs/graph/include/boost/graph/detail/augment.hpp
libs/graph/include/boost/graph/find_flow_cost.hpp
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libs/python/include/boost/python/docstring_options.hpp
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libs/winapi/include/boost/winapi/get_current_process_id.hpp
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Files:
libs/thread/include/boost/thread/detail/config.hpp

libs/thread/test/test_barrier.cpp

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libs/beast/CMakeLists.txt

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libs/beast/test/Jamfile
libs/winapi/include/boost/winapi/debugapi.hpp

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libs/convert/doc/00_main.qbk
libs/convert/doc/acknowledgments.qbk
libs/convert/doc/algorithms.qbk
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libs/convert/test/strtol_converter.cpp
libs/convert/test/test.hpp
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Files:

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libs/any/test/Jamfile.v2
libs/dynamic_bitset/test/Jamfile.v2
libs/filesystem/example/Jamfile.v2
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1.212 kubernetes 7.0.0a1

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1.213 cdiff 1.0-1

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1.214 websocket-client 0.53.0-1

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Date : 2 July 2015

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```
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mapbox  
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  geometry  
  box.hpp  
  empty.hpp  
  envelope.hpp  
  for_each_point.hpp  
  geometry.hpp  
  line_string.hpp  
  multi_line_string.hpp  
  multi_point.hpp  
  multi_polygon.hpp  
  point_arithmetic.hpp  
  point.hpp  
  polygon.hpp  
  geometry.hpp  
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```

2 directories, 15 files

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```
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mapbox  
  geometry  
  wagyu  
    active_bound_list.hpp  
    bound.hpp  
    bubble_sort.hpp  
    build_edges.hpp  
    build_local_minima_list.hpp
```

build_result.hpp
config.hpp
edge.hpp
interrupt.hpp
intersect.hpp
intersect_util.hpp
local_minimum.hpp
local_minimum_util.hpp
point.hpp
process_horizontal.hpp
process_maxima.hpp
quick_clip.hpp
ring.hpp

ring_util.hpp
scanbeam.hpp
snap_rounding.hpp
topology_correction.hpp
util.hpp
vatti.hpp
wagyuhpp

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1.220 pgextwlist 1.11-4.pgdg100+1

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1.221 pgbouncer 1.15.0-1.pgdg100+1

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1.223 patroni 2.0.1

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gdal/frmts/gtiff/tif_float.c

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gdal/frmts/hdf4/hdf-eos/*

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gdal/frmts/pcraster/libcsf

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gdal/ogr/ogrsf_frmts/dxf/intronurbs.cpp

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gdal/alg/thinplatespline.cpp

IEEE754 log() code derived from:
@(#)e_log.c 1.3 95/01/18

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gdal/alg/libqhull

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`gdal/frmts/pdf/pdfdataset.cpp (method PDFiumRenderPageBitmap())`

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gdal/frmts/mrf/* (apply when MRF driver included in build)

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LERC

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This software embodiment is an implementation of

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Assignee: Esri.

Assignors/Inventors: Maurer, Thomas (Redlands, CA); Gao, Peng (Redlands, CA); Becker, Peter (Redlands, CA).

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Assignors/Inventors: Maurer, Thomas (Redlands, CA); Gao, Peng (Redlands, CA); Becker, Peter (Redlands, CA).

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# 1.229 python-oauthlib 2.1.0-1

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```
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