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1.2 strace 5.5

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From ftp/main.c

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```
*/  
  
char copyright[] =  
"@(#) Copyright (c) 1985, 1989 Regents of the University of California.\n"  
"All rights reserved.\n";  
  
/*  
* from: @(#)main.c 5.18 (Berkeley) 3/1/91  
*/
```

1.8 chardet 3.0.4

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1.13 libxext 1.3.4

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1.14 python-keyring 18.0.1

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1.15 pinentry 1.1.0

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1.17 python-attrs 19.3.0

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

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1.21 groff 1.22.4

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. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

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```
src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp
```

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

```
src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
```

src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac
tmac/groff_me.man
doc/meintro.me

doc/meintro_fr.me

doc/meref.me

Hyphenation Patterns

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

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

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

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

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

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1.23 numactl 2.0.12

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1.24 libxcrypt 4.4.10

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1.25 xfsprogs 5.3.0

1.25.1 Available under license :

This package was debianized by Nathan Scott nathans@debian.org on Sun, 19 Nov 2000 07:37:09 -0500.

It can be downloaded from <https://www.kernel.org/pub/linux/utils/fs/xfs/xfsprogs/>

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1.26 libpcap 1.9.1

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1.27 libedit 3.1-20191231

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1.28 e2fsprogs 1.45.5

1.28.1 Available under license :

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

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

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#

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

#

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

#

```

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

*/

/*

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

- trivial database library - private includes

-

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Theodore Ts'o
23-June-2007

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Most GNU software, including some libraries, is covered by the ordinary

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That's all there is to it!

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

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

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

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

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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```
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```

```
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1.29 gstreamer 1.16.2

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```

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1.30 Ishw 02.18.85

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1.31 libvorbis 1.3.6

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1.32 alsa-ucm-conf 1.2.2

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1.33 secureboot-db 1.5

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1.34 efibootmgr 17

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1.37 python-launchpadlib 1.10.13

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1.38 cdebconf 0.251ubuntu1

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```
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```

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

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1.41 debianutils 4.9.1

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1.42 base-passwd 3.5.47

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1.47 tpm-udev 0.4

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1.48 apparmor 2.13.3

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1.49 ubuntu-meta 1.450.2

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```
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```

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

Ty Coon, President of Vice

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1.50 bind 9.16.1

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-->  
  
<!-- Generate ISC copyright comments from Docbook copyright metadata. -->
```

```

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

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```

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1.51 squashfs-tools 4.4

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1.56 sosreport 4.0

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1.60 libuv 1.34.2

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```
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```
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1.62 libseccomp 2.4.3

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1.63 python-distro 1.4.0

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1.64 libtool 2.4.6

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```
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#+STARTUP: showall
```

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.74 free-type 2.10.1

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=====

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#

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#

.gitignore

#

builds/unix/pkg.m4

#

docs/FTL.TXT

docs/GPLv2.TXT

#

include/freetype/internal/fthash.h

#

src/base/fthash.c

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

src/bdf/bdflib.c

src/bdf/module.mk

src/bdf/README

src/bdf/rules.mk

#

src/pcf/module.mk

src/pcf/pcf.c

src/pcf/pcf.h

src/pcf/pcfdrivr.c

src/pcf/pcfdrivr.h

src/pcf/pcferror.h

src/pcf/pcfread.c

src/pcf/pcfread.h

src/pcf/pcfutil.c

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

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75dpi-courB12-IL2.bdf 75dpi-courB14.bdf 75dpi-courB14c.bdf
75dpi-courB14-IL2.bdf 75dpi-courR12.bdf 75dpi-courR12c.bdf
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100dpi-lutBS14-IL2.bdf 100dpi-lutBS14.bdf 100dpi-lutBS19-IL2.bdf
100dpi-lutRS10.bdf 100dpi-lutRS10-IL2.bdf 100dpi-lutRS08.bdf
100dpi-lutRS08-IL2.bdf 100dpi-lutRS14-IL2.bdf 100dpi-lutRS14.bdf
100dpi-lutRS19-IL2.bdf 75dpi-lutBS12.bdf 75dpi-lutBS12c.bdf
75dpi-lutBS12-IL2.bdf 75dpi-lutBS14.bdf 75dpi-lutBS14c.bdf
75dpi-lutBS14-IL2.bdf 75dpi-lutRS12.bdf 75dpi-lutRS12c.bdf
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legacy14c.bdf, legacy14d.bdf, legacy14e.bdf, legacy14f.bdf,
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legacy14k.bdf, legacy14l.bdf, legacy16a.bdf, legacy16b.bdf,
legacy16c.bdf, legacy16d.bdf, legacy16e.bdf, legacy16f.bdf,
legacy16g.bdf, legacy16h.bdf, legacy16i.bdf, legacy16j.bdf,
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1.80 curl 7.68.0

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1.81 libusb 1.0.23

1.81.1 Available under license :

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1.83 apport-symptoms 0.23

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1.85 zope-interface 4.7.1

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1.86 ubuntu-keyring 2020.02.11.2

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```
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1.89 libtext-iconv-perl 1.7

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Text::Iconv Version 1.6

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Description

This module provides a Perl interface to the iconv() codeset conversion function, as defined by the Single UNIX Specification. For more details see the POD documentation embedded in the file Iconv.pm, which will also be installed as Text::Iconv(3) man page.

Prerequisites

Your system should be compliant with the Single UNIX Specification or at least provide iconv_open(), iconv() and iconv_close() functions compliant with it.

Note that the possible conversions and the quality of the conversions depend on the available iconv conversion tables and algorithms, which are in most cases supplied by the operating system vendor. Some systems also allow you to build your own tables (e.g., HP-UX, Tru64 UNIX, and AIX provide the genxlt(1) command).

It is also possible to use a separate iconv library such as GNU

libiconv package, just make sure that the desired library is found (see <<http://www.gnu.org/directory/localization/libiconv.html>>).

Building the module

Since the Single UNIX Specification only specifies an interface, several issues are left to the implementation to define, namely:

1. The supported codesets
2. The supported conversions
3. The names for the supported codesets

Please check your system documentation for the above points.

The module can be built using this sequence of commands:

```
perl Makefile.PL
make
make test
```

On some systems, the iconv functions are in libc; on others (and when you want to use a separate iconv library, such as GNU libiconv), you have to link with `-liconv`. `Makefile.PL` tries to automatically detect this. However, if your iconv library is in a non-standard path, you might have to help it. You can specify library and include paths like this:

```
perl Makefile.PL LIBS='-L/path/to/lib' INC='-I/path/to/include'
```

You might also have to do this if you have multiple iconv implementations installed and want to use a specific one.

The purpose of the test scripts (run by "make test") is to check if an iconv library can be found, and if the iconv functions can be called. It is neither intended to find out which conversions are supported, nor to test the quality of the conversions provided by your iconv library. However, since the iconv functions can only be tested by calling them, which in turn requires the specification of codesets to be converted. The test scripts try some conversions which seem to be widely supported. Conversions not supported by your iconv implementation are skipped, but for the purpose outlined above this is no problem, as it shows that the iconv functions are working. There is no standard way to find out which conversions are supported by an implementation. This is also the reason why `Text::Iconv` can't provide platform-independent support for codeset identifiers (even if it would be nice to have).

Installation

make install

Feedback

Text::Iconv was tested on various platforms and with different iconv implementations.

If you built Text::Iconv on a platform where you needed to specify additional libraries, or where none of the codeset identifiers in the test scripts are supported, please drop me a note.

Thanks

Thanks go to all those who reported bugs and suggested features.

Michael Piotrowski <mxp@dynamalabs.de>

Found in path(s):

* /opt/cola/permits/1144640811_1616146132.37/0/libtext-iconv-perl-1-7-orig-tar-bz2/Text-Iconv-1.7/README

1.90 finalrd 6~ubuntu20.04.1

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1.92 elfutils 0.176

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1.94 update-manager 20.04.10.6

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Mon, 25 Oct 2004 21:49:07 +0200.

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

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1.98 glib 2.64.6

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

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

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

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

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

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

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

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

```
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```
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License along with this library; if not, write to the Free Software  
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
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```
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```

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

That's all there is to it!

1.99 dosfs-tools 4.1

1.99.1 Available under license :

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Version 3, 29 June 2007

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1. Source Code.

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

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- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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1.104 pyjwt 1.7.1

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1.105 mtr 0.93

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1.106 shim-signed 1.40.4

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Upstream-Name: shim

Upstream-Contact: Matthew Garrett <mjg@redhat.com>

Source: <https://github.com/mjg59/shim.git>

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1.107 pollinate 4.33

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1.108 tzdata 2021a

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1.110 debconf 1.5.73

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1.112 libgpg-error 1.37

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1.113 libsigsegv 2.12

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1.114 apt 2.0.4

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1.115 ubuntu-release-upgrader 20.04.30

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Upstream-Name: Ubuntu Release Upgrader

Source: <https://code.launchpad.net/~ubuntu-core-dev/ubuntu-release-upgrader/trunk>

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1.116 pyserial 3.4

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1.117 python-debian 0.1.36ubuntu1

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

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

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

The precise terms and conditions for copying, distribution and

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

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

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

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

Ty Coon, President of Vice

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```
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```

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```
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```

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1.121 xz 5.2.4

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=====

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1.122 file 5.38

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1.123 pcre 8.39

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THE BASIC LIBRARY FUNCTIONS

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1.124 initramfs-tools 0.136ubuntu6.3

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The current Debian maintainer are maximilian attems <maks@debian.org>

and Michael Prokop <mika@debian.org>.

The current ubuntu release can be found at:

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1.125 more-iterertools 4.2.0

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1.126 lz4 1.9.2

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

Files: *

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1.127 fwupd-signed 1.27.1ubuntu2

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Upstream-Name: fwupd

Source: <https://github.com/hughsie/fwupd>

Comment:

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1.128 gsettings-desktop-schemas 3.36.0

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That's all there is to it!

1.129 procps 3.3.16

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1.130 argon2 0~20171227

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1.132 xauth 1.1

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<one line to give the program's name and a brief idea of what it does.>
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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

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

```
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1.136 htop 2.2.0

1.136.1 Available under license :

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Version 2, June 1991

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

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

```
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```

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

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1.137 policykit 0.105

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

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

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

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

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

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

directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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Version 2, June 1991

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

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

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file

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

than the cost of performing this distribution.

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

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

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That's all there is to it!

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Mathieu Desnoyers
May 13th, 2009

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

<https://lists.lttng.org/pipermail/lttng-dev/2009-May/012835.html>

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

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

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

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

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

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

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

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

1.139 gmp 6.2.0+dfsg

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Version 3, 29 June 2007

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1.140 patch 2.7.6

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@item

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@item

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

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

@item

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@enumerate a

@item

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.)

@item

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@item

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.

@item

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.

@item

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

@end enumerate

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

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@enumerate a

@item

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

@item

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

@end enumerate

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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@smallexample

@var{one line to give the library's name and an idea of what it does.}

Copyright (C) @var{year} @var{name of author}

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@end smallexample

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

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

```
@smallexample
```

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

```
@var{signature of Ty Coon}, 1 April 1990
```

```
Ty Coon, President of Vice
```

```
@end smallexample
```

That's all there is to it!

Description:

Concatenate two arbitrary file names.

Files:

```
lib/filenamecat.h
```

```
lib/filenamecat-lgpl.c
```

```
m4/filenamecat.m4
```

Depends-on:

```
dirname-lgpl
```

configure.ac:

```
gl_FILE_NAME_CONCAT_LGPL
```

Makefile.am:

```
lib_SOURCES += filenamecat-lgpl.c
```

Include:

```
"filenamecat.h"
```

License:

```
LGPLv2+
```

Maintainer:

```
Jim Meyering
```

Please email the following information to assign@gnu.org, and we will send you the assignment form for your past and future changes.

Please use your full legal name (in ASCII characters) as the subject line of the message.

REQUEST: SEND FORM FOR PAST AND FUTURE CHANGES

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Even if that material is free software, we need to know about it.]

[Do you have an employer who might have a basis to claim to own
your changes? Do you attend a school which might make such a claim?]

[For the copyright registration, what country are you a citizen of?]

[What year were you born?]

[Please write your email address here.]

[Please write your postal address here.]

[Which files have you changed so far, and which new files have you written
so far?]

Description:

Provide the GNU Free Documentation License in Texinfo format.

Files:

doc/fdl.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:

unmodifiable license text

Maintainer:

all

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Description:

Ensure `getcwd(NULL, 0)` returns a buffer allocated by the `malloc()` function.

Files:

`lib/getcwd-lgpl.c`

`m4/getcwd.m4`

Depends-on:

`unistd`

`strdup` [test \$REPLACE_GETCWD = 1]

`configure.ac`:

```
gl_FUNC_GETCWD_LGPL
```

```
if test $REPLACE_GETCWD = 1; then
```

```
  AC_LIBOBJ([getcwd-lgpl])
```

```
fi
```

```
gl_UNISTD_MODULE_INDICATOR([getcwd])
```

Makefile.am:

Include:

<unistd.h>

License:
LGPLv2+

Maintainer:
Eric Blake

Legal Issues about Contributing Code to GNU last updated 14 July 2015

Project GNU has to be careful to obey copyright laws, even though these laws are wrong when they stop people from sharing generally useful published information such as software, because we are in the public eye. We also use copyright to defend users' freedom, by means of copyleft (though this does not excuse copyright law for helping to make software proprietary).

This means that if you want to contribute software to GNU, you have to do something to give us legal permission to use it. There are three ways this can be done:

- * Assign the copyright to the Free Software Foundation.

This allows the FSF to act to stop violations of the GPL.

- * Keep the copyright and release the program yourself under the GNU GPL. (This alternative is too impractical for contributions to a preexisting FSF-copyrighted GNU program.)

- * Put the code in the public domain. Then there is nothing to stop hoarding of modified versions, but we can still use the program in GNU.

Most of these alternatives require a signed piece of paper, or in some cases a digital signature, to make it happen.

- * Assigning copyright.

Assigning the copyright means signing a contract that makes the Free Software Foundation the "owner" of the program according to the law. As the copyright holder, the Foundation can sue anyone who tries to distribute the program as a proprietary product. We are willing to keep your name on the program as the author for as long as the program remains recognizably distinct. ("Owner" is in quotes to show that we don't really believe in this kind of ownership.)

The assignment contract commits the foundation to setting distribution terms that permit free redistribution.

Often we don't want to do the work of starting to distribute a program right away. There are many things which we will need in order to have a complete system but which aren't really useful until the rest of the system is done. But signing the assignment does not stop you from

distributing the program yourself--as long as you do so under the GNU terms. You don't have to wait for us to start distributing. You can start distributing as soon as you attach our standard copyleft to the files. (Ask for our advice on how to do this.)

The assignment contract we normally use has a clause that permits you to use your code in proprietary programs, on 30 days' notice. (The 30 days' notice is there because, through a legal technicality, it would improve our position in a suit against a hoarder.) Although we believe that proprietary software is wrong, we include this clause because it would serve no purpose to ask you to promise not to do it. You're giving us a gift in the first place.

You don't need to invoke this clause in order to distribute copies as free software under the GNU GPL, since everyone is allowed to do that.

* Releasing it yourself.

You can release a program yourself under copyleft distribution terms such as the GNU GPL. (In order to accept the program as GNU software, we would have to be happy with your choice of terms.) This does not require a contract between you and the FSF, but we would appreciate having a signed piece of paper to confirm your decision.

If someone violates your terms--for example, if someone gets a copy from us, and uses it as a basis for a proprietary product in violation of the terms--we cannot sue him. You would have to sue, or he gets away with it.

* Public domain.

If you put the program in the public domain, we prefer to have a signed piece of paper--a disclaimer of rights--from you confirming this. If the program is not very important, we can do without one; the worst that could happen is that we might some day be forced to stop using it.

The law says that anyone can copyright a modified version of the public domain work. (This doesn't restrict the original, which remains in the public domain; only the changes are copyrighted.) If we make extensive changes, we will probably do this and add our usual copyleft. If we make small changes, we will leave the version we distribute in the public domain.

* What about your employer?

If you are employed to do programming, or have made an agreement with your employer that says it owns programs you write, we need a signed piece of paper from your employer disclaiming rights to the program. It should be

signed by a vice president or general manager of the company. If you can't get at them, it is almost as good to find someone who signs licenses for software that is purchased. Here is a sample wording:

Digital Simulation Corporation hereby disclaims all copyright interest in the program "sample.el" (a program to direct assemblers to make passes at compilers under GNU Emacs) written by Hugh Hacker.

<signature of Mo Ghoul>, 1 April 1987
Mo Ghoul, President of Vice, Digital Simulation Corp.

The description of what the program does is just to make it clearer what the disclaimer covers.

If what you did was change an existing program, it should say this:

...in the changes and enhancements made by Hugh Hacker to the program "sample.el".

* Did anyone else contribute?

If someone else contributed more than a few lines here or there to the program, then that person too is an author, and that person too needs to sign papers just as you do. So may that person's employer. However, if his contribution is just a fraction of the whole work, it is satisfactory if he disclaims his own rights, even if you are assigning yours. (If just the minor contributors' work goes in the public domain, that doesn't leave much of a loophole for hoarders.)

If you incorporated packages which you found floating around as "public domain", we might still want to track down their authors, to get disclaimers to reassure us that they really are in the public domain. So keep track of what these packages are and who wrote them.

* A reminder:

In working on a project for GNU, DO NOT study and follow any Unix sources or other non-free software that might have any bearing on the project. Don't refer to them at all, unless you are forced to for non-GNU reasons.

It is not considered a serious problem if you have read Unix sources or other non-free source code in the past for other purposes, provided you don't copy anything in particular from them. However, referring to them while you do the work could cause us legal problems later.

The files in this directory describe the gnuilib modules.

The following copyright notice applies to each of these description files.

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[Did you copy any files or text written by someone else in these changes? Even if that material is free software, we need to know about it.]

[Do you have an employer who might have a basis to claim to own your changes? Do you attend a school which might make such a claim?]

[For the copyright registration, what country are you a citizen of?]

[What year were you born?]

[Please write your email address here.]

[Please write your postal address here.]

[Which files have you changed so far, and which new files have you written so far?]

Please email the following information to assign@gnu.org, and we will send you the disclaimer form for your changes. This form is preferred when your changes are small, they do not add any nontrivial new files, and you are finished making them (aside perhaps from small bug fixes).

If you would like to make further contributions to the same package, and you would like to avoid the need to sign more papers when you contribute them, you have another option: to sign a copyright assignment covering your future changes. If that is what you want to do, please tell the maintainer you would prefer to sign an assignment of past and future changes.

Please use your full legal name (in ASCII characters) as the subject line of the message.

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[What is the name of the program or package you're contributing to?]

[Did you copy any files or text written by someone else in these changes? Even if that material is free software, we need to know about it.]

[Do you have an employer who might have a basis to claim to own your changes?]

[Please write your email address here.]

[Please write your snail address here.]

[Please list the files involved, or give a brief description of the changes being disclaimed.]

Description:

realpath, canonicalize_file_name: Provide canonical absolute file name

Files:

lib/canonicalize-lgpl.c

m4/canonicalize.m4

m4/double-slash-root.m4

Depends-on:

extensions

stdlib

nocrash


```
alloca-opt [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
errno [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
lstat [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME
= 1]
malloca [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
memmove [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
pathmax [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
readlink [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
sys_stat [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
```

configure.ac:

```
gl_CANONICALIZE_LGPL
if test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1; then
  AC_LIBOBJ([canonicalize-lgpl])
fi
gl_MODULE_INDICATOR([canonicalize-lgpl])
gl_STDLIB_MODULE_INDICATOR([canonicalize_file_name])
gl_STDLIB_MODULE_INDICATOR([realpath])
```

Makefile.am:

Include:
<stdlib.h>

License:
LGPLv2+

Maintainer:
all

Description:
Extract specific portions of filenames.

Files:
lib/dirname.h
lib/dirname-lgpl.c
lib/basename-lgpl.c
lib/stripslash.c
m4/dirname.m4

Depends-on:
dosname

double-slash-root

malloc-posix

stdbool

configure.ac:

gl_DIRNAME_LGPL

Makefile.am:

lib_SOURCES += dirname-lgpl.c basename-lgpl.c stripslash.c

Include:

"dirname.h"

License:

LGPLv2+

Maintainer:

Jim Meyering, Eric Blake

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Version 3, 29 June 2007

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The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

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- b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

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Files:

tests/test-update-copyright.sh

Depends-on:

configure.ac:

```
abs_aux_dir=`cd "$ac_aux_dir"; pwd`
```

```
AC_SUBST([abs_aux_dir])
```

Makefile.am:

TESTS += test-update-copyright.sh

TESTS_ENVIRONMENT += abs_aux_dir='\${abs_aux_dir}'

Files:

tests/test-canonicalize-lgpl.c

tests/signature.h

tests/null-ptr.h

tests/macros.h

Depends-on:

ignore-value

same-inode

symlink

configure.ac:

Makefile.am:

TESTS += test-canonicalize-lgpl

check_PROGRAMS += test-canonicalize-lgpl

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@page
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@example

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

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Ty Coon, President of Vice

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Description:

Help make libraries relocatable, that is, to allow them to function properly when copied to an arbitrary directory.

Files:

doc/relocatable.texi

lib/relocatable.h
lib/relocatable.c
lib/relocatable.valgrind
m4/relocatable-lib.m4

Depends-on:

strdup

configure.ac:

```
gl_RELOCATABLE_LIBRARY
if test $RELOCATABLE = yes; then
  AC_LIBOBJ([relocatable])
fi
```

Makefile.am:

```
DEFS += -DNO_XMALLOC
```

Include:

```
"relocatable.h"
```

License:

GPLv2+

Maintainer:

Ben Pfaff

Description:

Locating a program in PATH (LGPLed version).

Files:

lib/findprog.h
lib/findprog.c
lib/findprog-lgpl.c
m4/findprog.m4
m4/eaccess.m4

Depends-on:

stdbool
strdup
concat-filename
unistd

configure.ac:

```
gl_FINDPROG
gl_MODULE_INDICATOR([findprog-lgpl])
```

Makefile.am:

```
lib_SOURCES += findprog.h findprog.c
```

Include:
"findprog.h"

License:
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Maintainer:
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Files:

```
tests/test-getcwd-lgpl.c  
tests/signature.h  
tests/macros.h
```

Depends-on:

configure.ac:

Makefile.am:

```
TESTS += test-getcwd-lgpl  
check_PROGRAMS += test-getcwd-lgpl  
test_getcwd_ldadd_LDADD = $(LDADD) $(LIBINTL)
```

1.143 rsync 3.1.3

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Version 3, 29 June 2007

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1.144 sysv-init 2.96

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<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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```

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

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

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

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

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```
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On Debian GNU/Linux systems, the complete text of the GNU General Public License can be found in ``usr/share/common-licenses/GPL-2'`.

Send patches to sysvinit-devel@nongnu.org

1.145 pyasn1 0.4.2

1.145.1 Available under license :

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ASN.1 library for Python

=====
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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::  
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```

/changelog

License

The PyASN1 software is distributed under 2-clause BSD License.

```
.. toctree::  
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```

/license

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 <<http://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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ASN.1 library for Python

[[PyPI](<https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000>)](<https://pypi.python.org/pypi/pyasn1>)
[[Python Versions](<https://img.shields.io/pypi/pyversions/pyasn1.svg>)](<https://pypi.python.org/pypi/pyasn1/>)
[[Build status](<https://travis-ci.org/etingof/pyasn1.svg?branch=master>)](<https://secure.travis-ci.org/etingof/pyasn1>)
[[Coverage Status](<https://img.shields.io/codecov/c/github/etingof/pyasn1.svg>)](<https://codecov.io/github/etingof/pyasn1>)
[[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)
```

```

```
00000: 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

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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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df3a2b7/pyasn1/type/char.py  
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\* /opt/cola/permits/1144635429\_1616035831.44/0/jlw345-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/jlw345-pyasn1-df3a2b7/pyasn1/compat/dateandtime.py  
\* /opt/cola/permits/1144635429\_1616035831.44/0/jlw345-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/jlw345-pyasn1-df3a2b7/pyasn1/type/constraint.py  
\* /opt/cola/permits/1144635429\_1616035831.44/0/jlw345-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/jlw345-pyasn1-df3a2b7/tests/codec/\_\_main\_\_.py  
\* /opt/cola/permits/1144635429\_1616035831.44/0/jlw345-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/jlw345-pyasn1-df3a2b7/pyasn1/type/error.py  
\* /opt/cola/permits/1144635429\_1616035831.44/0/jlw345-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/jlw345-pyasn1-df3a2b7/pyasn1/codec/native/encoder.py  
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\* /opt/cola/permits/1144635429\_1616035831.44/0/jlw345-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/jlw345-pyasn1-df3a2b7/pyasn1/error.py  
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\* /opt/cola/permits/1144635429\_1616035831.44/0/jlw345-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/jlw345-pyasn1-df3a2b7/tests/type/test\_char.py  
\* /opt/cola/permits/1144635429\_1616035831.44/0/jlw345-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/jlw345-pyasn1-df3a2b7/tests/codec/native/test\_encoder.py  
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\* /opt/cola/permits/1144635429\_1616035831.44/0/jlw345-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/jlw345-pyasn1-df3a2b7/tests/codec/native/test\_decoder.py  
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\* /opt/cola/permits/1144635429\_1616035831.44/0/jlw345-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/jlw345-pyasn1-



```
df3a2b7/tests/type/test_namedval.py
* /opt/cola/permits/1144635429_1616035831.44/0/jlw345-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/jlw345-pyasn1-
df3a2b7/pyasn1/type/namedtype.py
* /opt/cola/permits/1144635429_1616035831.44/0/jlw345-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/jlw345-pyasn1-
df3a2b7/tests/type/___main___py
* /opt/cola/permits/1144635429_1616035831.44/0/jlw345-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/jlw345-pyasn1-
df3a2b7/tests/test_debug.py
* /opt/cola/permits/1144635429_1616035831.44/0/jlw345-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/jlw345-pyasn1-
df3a2b7/tests/codec/cer/test_encoder.py
* /opt/cola/permits/1144635429_1616035831.44/0/jlw345-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/jlw345-pyasn1-
df3a2b7/pyasn1/codec/der/encoder.py
```

# 1.146 diffutils 3.7

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```

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```
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## 1.147 libproxy 0.4.15

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## 1.149 pygobject 3.36.0

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# 1.151 libyami 0.2.2

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# 1.152 landscape-client 19.12

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## 1.161 bash-completion 2.10

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

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

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

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

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

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## 1.162 popt 1.16

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## 1.163 time 1.7

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Version 2, June 1991

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<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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This program is free software; you can redistribute it and/or modify
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```

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

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

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be called something other than ``show w'` and ``show c'`; they could even be  
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You should also get your employer (if you work as a programmer) or your  
school, if any, to sign a "copyright disclaimer" for the program, if  
necessary. Here is a sample; alter the names:

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

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

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## 1.164 language-selector 0.204.2

### 1.164.1 Available under license :

Upstream-Name: language-selector

Upstream-Maintainer: Arne Goetje <arne@ubuntu.com>

Upstream-Source: <https://code.launchpad.net/~ubuntu-core-dev/language-selector/ubuntu>

Files: \*  
Copyright: Copyright 2005-2006, Canonical Ltd  
License: GPL-2+

Files: debian/\*  
Copyright: Copyright 2009, Harald Sitter <apachelogger@ubuntu.com>  
Copyright: Copyright 2005-2006, Canonical Ltd  
License: GPL-2+

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On Debian systems, the complete text of the GNU General  
Public License can be found in ``usr/share/common-licenses/GPL-2'`.

# 1.165 python-click 7.0

## 1.165.1 Available under license :

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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/1144635687\_1616118457.69/0/python-click-7-0-orig-tar-gz/Click-7.0/README.rst
- No license file was found, but licenses were detected in source scan.

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

Found in path(s):

- \* /opt/cola/permits/1144635687\_1616118457.69/0/python-click-7-0-orig-tar-gz/Click-7.0/click/\_compat.py
- No license file was found, but licenses were detected in source scan.

```
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/1144635687_1616118457.69/0/python-click-7-0-orig-tar-gz/Click-7.0/setup.py
```

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Metadata-Version: 1.2

Name: Click

Version: 7.0

Summary: Composable command line interface toolkit

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

Author: Armin Ronacher

Author-email: [armin.ronacher@active-4.com](mailto:armin.ronacher@active-4.com)

Maintainer: Pallets Team

Maintainer-email: [contact@palletsprojects.com](mailto: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

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

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

And what it looks like when run:

.. code-block:: text

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

#### Donate

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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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- \* Website: <https://palletsprojects.com/p/click/>
- \* Documentation: <https://click.palletsprojects.com/>
- \* License: `BSD <<https://github.com/pallets/click/blob/master/LICENSE.rst>>`\_
- \* Releases: <https://pypi.org/project/click/>
- \* Code: <https://github.com/pallets/click>
- \* Issue tracker: <https://github.com/pallets/click/issues>
- \* Test status:
  
- \* Linux, Mac: <https://travis-ci.org/pallets/click>
- \* Windows: <https://ci.appveyor.com/project/pallets/click>
  
- \* Test coverage: <https://codecov.io/gh/pallets/click>

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

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/1144635687\_1616118457.69/0/python-click-7-0-orig-tar-gz/Click-7.0/PKG-INFO

\* /opt/cola/permits/1144635687\_1616118457.69/0/python-click-7-0-orig-tar-gz/Click-7.0/Click.egg-info/PKG-INFO

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Found in path(s):

\* /opt/cola/permits/1144635687\_1616118457.69/0/python-click-7-0-orig-tar-gz/Click-7.0/click/\_\_init\_\_.py

\* /opt/cola/permits/1144635687\_1616118457.69/0/python-click-7-0-orig-tar-gz/Click-7.0/click/\_termui\_impl.py

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.. \_contrib:

=====

click-contrib

=====

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

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

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

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

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## 1.166 p11-kit 0.23.20

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# 1.167 python-wadllib 1.3.3

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Constant-time SSSE3 AES core implementation.
version 0.1

By Mike Hamburg (Stanford University), 2009
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For details see https://shiftright.org/papers/vector_aes/ and
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## 1.170 shared-mime-info 1.15

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## 1.171 glibc 2.31

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Source: <https://linuxcontainers.org/lxd/downloads>

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## 1.176 linux-atm 2.5.1

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

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt  
Adler, Mark  
Allbery, Russ  
Anderson, Jamie  
Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bos, Sander  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
Cheloha, Scott  
ek, Vtzslav  
Coleman, Chris  
Corzine, Deven T.  
Cusack, Frank  
Dai, Wei  
Dill, David  
Earickson, Jeff  
Eckhardt, Drew  
Edgington, Ben  
Esipovich, Marc  
Espie, Marc

Faigon, Ariel  
Farrell, Brian  
Fobes, Steve  
Frysinger, Mike  
G., Daniel Richard  
Gailly, Jean-loup  
Gelman, Stephen  
Gerraty, Simon J.  
Graber, Stephane  
Guillory, B.  
Hayman, Randy M.  
Henke, Joachim  
Hideaki, Yoshifuji  
Hieb, Dave  
Holloway, Nick  
Hoover, Adam  
Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
Jackson, Brian  
Jackson, John R.  
Jackson, Richard L., Jr.  
Janssen, Mark  
Jepeway, Chris  
Jorge, Joel Pele  
Jover, Guillem  
Juhani, Timo  
Kikuchi, Ayamura  
Kadow, Kevin  
Kasal, Stepan  
Kienenberger, Mike  
King, Dale  
King, Michael  
Klyachkin, Andrey  
Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai  
Kopeek, Daniel  
Kranenburg, Paul  
Krause, David  
Lakin, Eric  
Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbes, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.

McLaughlin, Tom  
Makey, Jeff  
Mallayya, Sangamesh  
Marchionna, Michael D.  
Markham, Paul  
Martinian, Emin  
Meskes, Michael  
Michael, David  
Miller, Todd C.  
Minier, Loc  
Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Mller, Dworkin  
Nieusma, Jeff  
Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
Paquet, Eric  
Paradis, Chantal  
Pasteleurs, Frederic  
Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan  
Ryabinkin, Eygene  
Sato, Yuichi  
Snchez, Wilfredo  
Sanders, Miguel  
Sasaki, Kan  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno

Schwarze, Ingo  
Scott, Dougal  
Sieger, Nick  
Simon, Thor Lancelot  
Slemko, Marc  
Smith, Andy  
Sobrado, Igor  
Soulen, Steven  
Spangler, Aaron  
Spradling, Cloyce D.  
Spradling, Michael  
Stier, Matthew  
Stoeckmann, Tobias  
Street, Russell  
Stritzky, Tilo  
Stroucken, Michael  
Tarrall, Robert  
Thomas, Matthew  
Todd, Giles  
Toft, Martin  
Torek, Chris  
Tucker, Darren  
Uhl, Robert  
Uzel, Petr  
Valery, Reznic  
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Venckus, Martynas  
de Vries, Maarten  
Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro  
Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin

Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez, Francisco  
Fontenelle, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frdric  
Hein, Jochen  
Hufthammer, Karl Ove  
Jerovek, Damir  
Karvonen, Jorma  
Kazik, Duan  
Kelemen, Gbor  
Keeci, Mehmet  
Koir, Klemen  
Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
Margeviius, Algimantas  
Maryanov, Pavel  
Nikoli, Miroslav  
Nylander, Daniel  
Psa, Petr  
Puente, Enol  
Putanec, Boidar  
Qun, Trn Ngc  
Rasmussen, Sebastian  
Regueiro, Leandro  
Sarar, zgr  
Sendn, Abel  
Sikrom, ka  
Spingos, Dimitris  
Taniguchi, Yasuaki  
Tomat, Fbio  
r, Balzs  
Uranga, Mikel Olasagasti  
Vorotnikov, Artem  
Wang, Wylmer

# 1.180 libogg 1.3.4-0ubuntu1

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This package was debianized by Christopher L Cheney <ccheney@debian.org> on Sun, 29 Oct 2000 01:11:57 -0500.

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In-Reply-To: <20110813065417.GV2324@audi.shelbyville.oz>  
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From: Silvia Pfeiffer <silviapfeiffer1@gmail.com>  
Date: Sun, 14 Aug 2011 15:47:09 +1000  
Message-ID: <CAHp8n2nmGN+G09aA118KN86NeX9yw\_VJAQNFZebm74k195zz+Q@mail.gmail.com>  
Subject: Re: Distributing the libogg RFCs in the Debian package  
To: Ron <ron@debian.org>  
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## 1.182 configobj 5.0.6

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## 1.183 libdrm 2.4.102

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## 1.184 friendly-recovery 0.2.41ubuntu0.20.04.1

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```

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\* Tim Martin

\* Rob Earhart

\* Rob Siemborski

\*/

/\*

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* Tim Martin
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* Rob Earhart
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* Rob Siemborski
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*/
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## 1.190 kerberos 1.17

### 1.190.1 Available under license :

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```
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cmd/krb5/ipropl/ipropl_hdr.h
cmd/krb5/kadmin/server/ipropl_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
```

lib/krb5/kdb/kdb\_log.c  
lib/krb5/kdb/kdb\_log.h  
lib/libgss/g\_accept\_sec\_context.c  
lib/libgss/g\_acquire\_cred.c  
lib/libgss/g\_canon\_name.c  
lib/libgss/g\_compare\_name.c  
lib/libgss/g\_context\_time.c  
lib/libgss/g\_delete\_sec\_context.c  
lib/libgss/g\_dsp\_name.c  
lib/libgss/g\_dsp\_status.c  
lib/libgss/g\_dup\_name.c  
lib/libgss/g\_exp\_sec\_context.c  
lib/libgss/g\_export\_name.c  
lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
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lib/libgss/g\_rel\_buffer.c  
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lib/libgss/g\_sign.c  
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lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
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 <link rel="stylesheet" href="_static/pygments.css" type="text/css" />
 <link rel="stylesheet" href="_static/kerb.css" type="text/css" />
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 FILE_SUFFIX: '.html',
 HAS_SOURCE: true,
 SOURCELINK_SUFFIX: '.txt'
 };
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 <script type="text/javascript" src="_static/underscore.js"></script>
 <script type="text/javascript" src="_static/doctools.js"></script>
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 <link rel="copyright" title="Copyright" href="copyright.html" />
 <link rel="next" title="Copyright" href="copyright.html" />
 <link rel="prev" title="MIT Kerberos features" href="mitK5features.html" />
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 <div class="header">

 <h1>MIT Kerberos Documentation</h1>
```

```

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 <a href="index.html" title="Full Table of Contents"
 accesskey="C">Contents |
 <a href="mitK5features.html" title="MIT Kerberos features"
 accesskey="P">previous |
 <a href="copyright.html" title="Copyright"
 accesskey="N">next |
 <a href="genindex.html" title="General Index"
 accesskey="I">index |
 <a href="search.html" title="Enter search criteria"
 accesskey="S">Search |
 <a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
information">feedback
 </div>
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</div>

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 <div class="document">

 <div class="documentwrapper">
 <div class="bodywrapper">
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<p>The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in

<code class="docutils literal"><span class="pre">src/lib/gssapi</span></code>, including the following files:</p>

<div class="highlight-default"><div class="highlight"><pre><span></span><span class="n">lib</span><span class="o"></span><span class="n">gssapi</span><span class="o"></span><span class="n">generic</span><span class="o"></span><span class="n">gssapi\_err\_generic</span><span class="o"></span><span class="n">et</span></pre>

<span class="n">lib</span><span class="o"></span><span class="n">gssapi</span><span class="o"></span><span class="n">mechglue</span><span class="o"></span><span class="n">g\_accept\_sec\_context</span><span class="o"></span><span class="n">c</span><span class="n">lib</span><span class="o"></span><span class="n">gssapi</span><span class="o"></span><span class="n">mechglue</span><span class="o"></span><span class="n">g\_acquire\_cred</span><span class="o"></span><span class="n">c</span><span class="n">lib</span><span class="o"></span><span class="n">gssapi</span><span class="o"></span><span class="n">mechglue</span><span class="o"></span><span class="n">g\_canon\_name</span><span class="o"></span><span class="n">c</span><span class="n">lib</span><span class="o"></span><span class="n">gssapi</span><span class="o"></span><span class="n">mechglue</span><span class="o"></span><span class="n">g\_compare\_name</span><span class="o"></span><span class="n">c</span><span class="n">lib</span><span class="o"></span><span class="n">gssapi</span><span class="o"></span><span class="n">mechglue</span><span class="o"></span><span class="n">g\_context\_time</span><span class="o"></span><span class="n">c</span><span class="n">lib</span><span class="o"></span><span class="n">gssapi</span><span class="o"></span><span class="n">mechglue</span><span class="o"></span><span class="n">g\_delete\_sec\_context</span><span class="o"></span><span class="n">c</span></pre>





```
kadminserveripropd_svc.c
libkdbiprop.x
libkdbkdb_convert.c
libkdbkdb_log.c
libkdbkdb_log.h
libkrb5error_tableskdb5_err.et
kpropkpropd_rpc.c
kpropkproplog.c
</pre></div>
```

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</div>
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<div class="left">
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>Search |
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<a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
information">feedback
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</div>
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</div>
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</body>
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</html>
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.. parsed-literal::

- lib/gssapi/generic/gssapi\_err\_generic.et
- lib/gssapi/mechglue/g\_accept\_sec\_context.c
- lib/gssapi/mechglue/g\_acquire\_cred.c
- lib/gssapi/mechglue/g\_canon\_name.c
- lib/gssapi/mechglue/g\_compare\_name.c
- lib/gssapi/mechglue/g\_context\_time.c
- lib/gssapi/mechglue/g\_delete\_sec\_context.c
- lib/gssapi/mechglue/g\_dsp\_name.c
- lib/gssapi/mechglue/g\_dsp\_status.c
- lib/gssapi/mechglue/g\_dup\_name.c
- lib/gssapi/mechglue/g\_exp\_sec\_context.c
- lib/gssapi/mechglue/g\_export\_name.c
- lib/gssapi/mechglue/g\_glue.c
- lib/gssapi/mechglue/g\_imp\_name.c
- lib/gssapi/mechglue/g\_imp\_sec\_context.c
- lib/gssapi/mechglue/g\_init\_sec\_context.c
- lib/gssapi/mechglue/g\_initialize.c
- lib/gssapi/mechglue/g\_inquire\_context.c
- lib/gssapi/mechglue/g\_inquire\_cred.c
- lib/gssapi/mechglue/g\_inquire\_names.c
- lib/gssapi/mechglue/g\_process\_context.c
- lib/gssapi/mechglue/g\_rel\_buffer.c
- lib/gssapi/mechglue/g\_rel\_cred.c
- lib/gssapi/mechglue/g\_rel\_name.c
- lib/gssapi/mechglue/g\_rel\_oid\_set.c
- lib/gssapi/mechglue/g\_seal.c
- lib/gssapi/mechglue/g\_sign.c
- lib/gssapi/mechglue/g\_store\_cred.c
- lib/gssapi/mechglue/g\_unseal.c
- lib/gssapi/mechglue/g\_userok.c
- lib/gssapi/mechglue/g\_utils.c
- lib/gssapi/mechglue/g\_verify.c

lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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

.. parsed-literal::

include/ipropr\_hdr.h  
kadmin/server/ipropr\_svc.c  
lib/kdb/ipropr.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
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kprop/kpropd\_rpc.c  
kprop/kproplog.c

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```
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```

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  <title>Copyright &#8212; MIT Kerberos Documentation</title>
  <link rel="stylesheet" href="_static/agogo.css" type="text/css" />
  <link rel="stylesheet" href="_static/pygments.css" type="text/css" />
  <link rel="stylesheet" href="_static/kerb.css" type="text/css" />
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      VERSION: '1.17',
      COLLAPSE_INDEX: false,
      FILE_SUFFIX: '.html',
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      SOURCELINK_SUFFIX: '.txt'
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    </div>
  </div>
</div>

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  <div class="content">
    <div class="document">

      <div class="documentwrapper">
        <div class="bodywrapper">
          <div class="body" role="main">

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</div>

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<input type="hidden" name="check_keywords" value="yes" />

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</form>

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
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lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/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
kprop/kproplog.c

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```

```
# This program is intended to be used by "make check-copyright". It
# checks for violations of the coding standards related to copyright
# and license statements in source code comments.
```

```
import os
import sys
import re
```

```
def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)
```

```
def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line
```

```
# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
```

```
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
            if text_seen:
                warn(fname, ln, 'License begins after first line of comment')
            elif code_seen:
                warn(fname, ln, 'License after code')
            elif nonlicense_seen:
                warn(fname, ln, 'License after non-license comments')
            break
        # DB2 licenses start with '/*-' and we don't want to change them.
        if line != " and line != '-':
            text_seen = True
    return is_license
```



```

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'^\* ([^ ]*)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'^\*.*?\*/', '', line)
            line = line.strip()

            if not in_comment and '/*' in line:
                (line, sep, comment_part) = line.partition('/*')
                comment = [comment_part.strip()]
                comment_starts_at = ln
                in_comment = True
            elif in_comment and '*/' not in line:
                comment.append(line.lstrip('*').rstrip())
            elif in_comment:
                (comment_part, sep, line) = line.partition('*/')
                comment.append(comment_part.strip())
                is_license = check_comment(comment, fname, comment_starts_at,
                                         code_seen, nonlicense_seen)
                nonlicense_seen = nonlicense_seen or not is_license
                in_comment = False
            elif line.strip() != "":
                code_seen = True

        ln += 1

    for fname in sys.argv[1:]:
        if fname.startswith('./'):
            fname = fname[2:]
        f = open(fname)
        lines = f.readlines()
        f.close()

```

```
    check_file(lines, fname)
```

```
Copyright
```

```
=====
```

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```
.. _mitK5license:
```

MIT Kerberos License information

```
=====
```

```
.. toctree::
```

```
    :hidden:
```

```
    copyright.rst
```

```
.. include:: notice.rst
```

```
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */  
/*
```

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```
*/
```

1.191 python-systemd 234

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```
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```

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1.192 netbase 6.1

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

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

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1.196 alsa-topology-conf 1.2.2

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To apply these terms, attach the following notices to the library. It is

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

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

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

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

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

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

That's all there is to it!

1.202 netifaces 0.10.4

1.202.1 Available under license :

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

Metadata-Version: 1.1

Name: netifaces

Version: 0.10.4

Summary: Portable network interface information.

Home-page: <https://bitbucket.org/al45tair/netifaces>

Author: Alastair Houghton

Author-email: alastair@alastairs-place.net

License: MIT License

Description: netifaces 0.10.4

=====

```
.. image:: https://drone.io/bitbucket.org/al45tair/netifaces/status.png
   :target: https://drone.io/bitbucket.org/al45tair/netifaces/latest
   :alt: Build Status
```

1. What is this?

It's been annoying me for some time that there's no easy way to get the address(es) of the machine's network interfaces from Python. There is a good reason for this difficulty, which is that it is virtually impossible to do so in a portable manner. However, it seems to me that there should be a package you can `easy_install` that will take care of working out the details of doing so on the machine you're using, then you can get on with writing Python code without concerning yourself with the nitty gritty of system-dependent low-level networking APIs.

This package attempts to solve that problem.

2. How do I use it?

First you need to install it, which you can do by typing::

```
tar xvzf netifaces-0.10.4.tar.gz
cd netifaces-0.10.4
python setup.py install
```

Once that's done, you'll need to start Python and do something like the following::

```
>>> import netifaces
```

Then if you enter

```
>>> netifaces.interfaces()
['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']
```

you'll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

```
>>> netifaces.ifaddresses('lo0')
{18: [{'addr': ''}], 2: [{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}], 30: [{'peer': '::1', 'netmask':
```

```
'ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': '::1'], {'peer': '', 'netmask': 'ffff:ffff:ffff:ffff::', 'addr': 'fe80::1%lo0'}}}]
```

Hmmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first::

```
{ 18: [...], 2: [...], 30: [...] }
```

Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is ``AF_LINK`` (which means the link layer interface, e.g. Ethernet), 2 is ``AF_INET`` (normal Internet addresses), and 30 is ``AF_INET6`` (IPv6).

But wait! Don't use these numbers in your code. The numeric values here are system dependent; fortunately, I thought of that when writing `netifaces`, so the module declares a range of values that you might need. e.g.

```
>>> netifaces.AF_LINK
18
```

Again, on your system, the number may be different.

So, what we've established is that the dictionary that's returned has one entry for each address family for which this interface has an address. Let's take a look at the ``AF_INET`` addresses now:

```
>>> addrs = netifaces.ifaddresses('lo0')
>>> addrs[netifaces.AF_INET]
[{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}]
```

You might be wondering why this value is a list. The reason is that it's possible for an interface to have more than one address, even within the same family. I'll say that again: **you can have more than one address of the same type associated with each interface**.

Asking for "the" address of a particular interface doesn't make sense.

Right, so, we can see that this particular interface only has one address, and, because it's a loopback interface, it's point-to-point and therefore has a **peer** address rather than a broadcast address.

Let's look at a more interesting interface.

```
>>> addrs = netifaces.ifaddresses('en0')
>>> addrs[netifaces.AF_INET]
[{'broadcast': '10.15.255.255', 'netmask': '255.240.0.0', 'addr': '10.0.1.4'}, {'broadcast': '192.168.0.255', 'addr': '192.168.0.47'}]
```

This interface has two addresses (see, I told you...) Both of them are

regular IPv4 addresses, although in one case the netmask has been changed from its default. The netmask *may not* appear on your system if it's set to the default for the address range.

Because this interface isn't point-to-point, it also has broadcast addresses.

Now, say we want, instead of the IP addresses, to get the MAC address; that is, the hardware address of the Ethernet adapter running this interface. We can do

```
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a'}]
```

Note that this may not be available on platforms without `getifaddrs()`, unless they happen to implement `SIOCGIFHWADDR`. Note also that you just get the address; it's unlikely that you'll see anything else with an `AF_LINK` address. Oh, and don't assume that all `AF_LINK` addresses are Ethernet; you might, for instance, be on a Mac, in which case:

```
>>> addrs = netifaces.ifaddresses('fw0')
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a:bc:de'}]
```

No, that isn't an exceptionally long Ethernet MAC address---it's a FireWire address.

As of version 0.10.0, you can also obtain a list of gateways on your machine:

```
>>> netifaces.gateways()
{2: [(('10.0.1.1', 'en0', True), ('10.2.1.1', 'en1', False)), 30: [(('fe80::1', 'en0', True)], 'default': { 2: ('10.0.1.1', 'en0'),
30: ('fe80::1', 'en0') }}
```

This dictionary is keyed on address family---in this case, `AF_INET`---and each entry is a list of gateways as `(address, interface, is_default)` tuples. Notice that here we have two separate gateways for IPv4 (`AF_INET`); some operating systems support configurations like this and can either route packets based on their source, or based on administratively configured routing tables.

For convenience, we also allow you to index the dictionary with the special value `'default'`, which returns a dictionary mapping address families to the default gateway in each case. Thus you can get the default IPv4 gateway with

```
>>> gws = netifaces.gateways()
>>> gws['default'][netifaces.AF_INET]
('10.0.1.1', 'en0')
```

Do note that there may be no default gateway for any given address family;

this is currently very common for IPv6 and much less common for IPv4 but it can happen even for `AF_INET`.

BTW, if you're trying to configure your machine to have multiple gateways for the same address family, it's a very good idea to check the documentation for your operating system *very* carefully, as some systems become extremely confused or route packets in a non-obvious manner.

I'm very interested in hearing from anyone (on any platform) for whom the `gateways()` method doesn't produce the expected results. It's quite complicated extracting this information from the operating system (whichever operating system we're talking about), and so I expect there's at least one system out there where this just won't work.

3. This is great! What platforms does it work on?

It gets regular testing on OS X, Linux and Windows. It has also been used successfully on Solaris, and it's expected to work properly on other UNIX-like systems as well. If you are running something that is not supported, and wish to contribute a patch, please use BitBucket to send a pull request.

4. What license is this under?

It's an MIT-style license. Here goes:

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5. Why the jump to 0.10.0?

Because someone released a fork of netifaces with the version 0.9.0.
Hopefully skipping the version number should remove any confusion. In
addition starting with 0.10.0 Python 3 is now supported and other
features/bugfixes have been included as well. See the CHANGELOG for a
more complete list of changes.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: MIT License
Classifier: Topic :: System :: Networking
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.5
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3

Found in path(s):

* /opt/cola/permits/1144634651_1616129207.51/0/netifaces-0-10-4-1-tar-gz/netifaces-0.10.4/PKG-INFO
* /opt/cola/permits/1144634651_1616129207.51/0/netifaces-0-10-4-1-tar-gz/netifaces-0.10.4/netifaces.egg-
info/PKG-INFO

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

license="MIT License",
'License :: OSI Approved :: MIT License',

Found in path(s):

* /opt/cola/permits/1144634651_1616129207.51/0/netifaces-0-10-4-1-tar-gz/netifaces-0.10.4/setup.py

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netifaces 0.10.4

=====

.. image:: <https://drone.io/bitbucket.org/al45tair/netifaces/status.png>
:target: <https://drone.io/bitbucket.org/al45tair/netifaces/latest>
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```
>>> netifaces.interfaces()
['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']
```

you'll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

```
>>> netifaces.ifaddresses('lo0')
{18: [{'addr': ''}], 2: [{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}], 30: [{'peer': '::1', 'netmask': 'ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': '::1'}, {'peer': '', 'netmask': 'ffff:ffff:ffff:ffff::', 'addr': 'fe80::1%lo0'}]}
```

Hmmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first::

```
{ 18: [...], 2: [...], 30: [...] }
```

Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is ``AF_LINK`` (which means the link layer interface, e.g. Ethernet), 2 is ``AF_INET`` (normal Internet addresses), and 30 is ``AF_INET6`` (IPv6).

But wait! Don't use these numbers in your code. The numeric values here are system dependent; fortunately, I thought of that when writing netifaces, so the module declares a range of values that you might need. e.g.

```
>>> netifaces.AF_LINK
```

Again, on your system, the number may be different.

So, what we've established is that the dictionary that's returned has one entry for each address family for which this interface has an address. Let's take a look at the ``AF_INET`` addresses now:

```
>>> addrs = netifaces.ifaddresses('lo0')
>>> addrs[netifaces.AF_INET]
[{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}]
```

You might be wondering why this value is a list. The reason is that it's possible for an interface to have more than one address, even within the same family. I'll say that again: **you can have more than one address of the same type associated with each interface**.

Asking for "the" address of a particular interface doesn't make sense.

Right, so, we can see that this particular interface only has one address, and, because it's a loopback interface, it's point-to-point and therefore has a **peer** address rather than a broadcast address.

Let's look at a more interesting interface.

```
>>> addrs = netifaces.ifaddresses('en0')
>>> addrs[netifaces.AF_INET]
[{'broadcast': '10.15.255.255', 'netmask': '255.240.0.0', 'addr': '10.0.1.4'}, {'broadcast': '192.168.0.255', 'addr': '192.168.0.47'}]
```

This interface has two addresses (see, I told you...) Both of them are regular IPv4 addresses, although in one case the netmask has been changed from its default. The netmask **may not** appear on your system if it's set to the default for the address range.

Because this interface isn't point-to-point, it also has broadcast addresses.

Now, say we want, instead of the IP addresses, to get the MAC address; that is, the hardware address of the Ethernet adapter running this interface. We can do

```
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a'}]
```

Note that this may not be available on platforms without `getifaddrs()`, unless they happen to implement ``SIOCGIFHWADDR``. Note also that you just get the address; it's unlikely that you'll see anything else with an ``AF_LINK`` address.

Oh, and don't assume that all ``AF_LINK`` addresses are Ethernet; you might, for

instance, be on a Mac, in which case:

```
>>> addrs = netifaces.ifaddresses('fw0')
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a:bc:de'}]
```

No, that isn't an exceptionally long Ethernet MAC address---it's a FireWire address.

As of version 0.10.0, you can also obtain a list of gateways on your machine:

```
>>> netifaces.gateways()
{2: [('10.0.1.1', 'en0', True), ('10.2.1.1', 'en1', False)], 30: [('fe80::1', 'en0', True)], 'default': { 2: ('10.0.1.1', 'en0'), 30: ('fe80::1', 'en0') }}
```

This dictionary is keyed on address family---in this case, ``AF_INET``---and each entry is a list of gateways as ``(address, interface, is_default)`` tuples. Notice that here we have two separate gateways for IPv4 (``AF_INET``); some operating systems support configurations like this and can either route packets based on their source, or based on administratively configured routing tables.

For convenience, we also allow you to index the dictionary with the special value ``default``, which returns a dictionary mapping address families to the default gateway in each case. Thus you can get the default IPv4 gateway with

```
>>> gws = netifaces.gateways()
>>> gws['default'][netifaces.AF_INET]
('10.0.1.1', 'en0')
```

Do note that there may be no default gateway for any given address family; this is currently very common for IPv6 and much less common for IPv4 but it can happen even for ``AF_INET``.

BTW, if you're trying to configure your machine to have multiple gateways for the same address family, it's a very good idea to check the documentation for your operating system *very* carefully, as some systems become extremely confused or route packets in a non-obvious manner.

I'm very interested in hearing from anyone (on any platform) for whom the ``gateways()`` method doesn't produce the expected results. It's quite complicated extracting this information from the operating system (whichever operating system we're talking about), and so I expect there's at least one system out there where this just won't work.

3. This is great! What platforms does it work on?

It gets regular testing on OS X, Linux and Windows. It has also been used successfully on Solaris, and it's expected to work properly on other UNIX-like systems as well. If you are running something that is not supported, and wish to contribute a patch, please use BitBucket to send a pull request.

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5. Why the jump to 0.10.0?

Because someone released a fork of netifaces with the version 0.9.0. Hopefully skipping the version number should remove any confusion. In addition starting with 0.10.0 Python 3 is now supported and other features/bugfixes have been included as well. See the CHANGELOG for a more complete list of changes.

Found in path(s):

* /opt/cola/permits/1144634651_1616129207.51/0/netifaces-0-10-4-1-tar-gz/netifaces-0.10.4/README.rst

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@c End:

1.205 python-importlib-metadata 1.5.0

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1.206 icu 66.1

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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 =

End BSD-specific setup

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1.207 pciutils 3.6.4

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1.208 libestr 0.1.10

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

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

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1.211 python-stdlib-extensions 3.8.5

1.211.1 Available under license :

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executable.

Found in path(s):

* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/distutils/spawn.py

* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/distutils/spawn.py

* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/distutils/spawn.py

* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/distutils/spawn.py

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Found in path(s):

* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/lib2to3/fixes/fix_buffer.py

* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/lib2to3/fixes/fix_buffer.py

* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/lib2to3/fixes/fix_xrange.py

* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/lib2to3/fixes/fix_xrange.py

* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/lib2to3/fixes/fix_map.py

* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/lib2to3/fixes/fix_xrange.py

* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/lib2to3/fixes/fix_standarderror.py

* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/lib2to3/fixes/fix_types.py

* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/lib2to3/fixes/fix_standarderror.py

* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/lib2to3/fixes/fix_dict.py

* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/lib2to3/fixes/fix_types.py

* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/lib2to3/fixes/fix_map.py

* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/lib2to3/fixes/fix_map.py

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* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/lib2to3/fixes/fix_buffer.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/lib2to3/fixes/fix_dict.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/lib2to3/fixes/fix_buffer.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/lib2to3/fixes/fix_xrange.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/lib2to3/fixes/fix_map.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/lib2to3/fixes/fix_filter.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/lib2to3/fixes/fix_filter.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/lib2to3/fixes/fix_standarderror.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/lib2to3/fixes/fix_types.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/lib2to3/fixes/fix_filter.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/lib2to3/fixes/fix_types.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/lib2to3/fixes/fix_dict.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/lib2to3/fixes/fix_standarderror.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/lib2to3/fixes/fix_dict.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/lib2to3/fixes/fix_filter.py
```

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```
('binary-only', None,
"cannot supply both '--source-only' and '--binary-only'")
'License: ' + self.distribution.get_license(),
```

Found in path(s):

```
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/distutils/command/bdist_rpm.py
```

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```
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```


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A grammar to describe tree matching patterns.

Not shown here:

- 'TOKEN' stands for any token (leaf node)

- 'any' stands for any node (leaf or interior)

With 'any' we can still specify the sub-structure.

The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative ('| Alternative)*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '=' (STRING [Repeater]
| NAME [Details] [Repeater]
| '(' Alternatives ')' [Repeater]
| '[' Alternatives ']'
)

NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')

Repeater: '*' | '+' | '{' NUMBER [, NUMBER] '}'

Details: '<' Alternatives '>'

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* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/lib2to3/PatternGrammar.txt

* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/lib2to3/PatternGrammar.txt

* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/lib2to3/PatternGrammar.txt

* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/lib2to3/PatternGrammar.txt

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version.

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* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/distutils/cygwincompiler.py

* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/distutils/command/bdist_msi.py

* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/distutils/command/bdist_msi.py

```
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/distutils/cygwincompiler.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/distutils/command/bdist_wininst.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/distutils/command/bdist_wininst.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/distutils/command/bdist_wininst.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/distutils/cygwincompiler.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/distutils/command/bdist_wininst.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/distutils/cygwincompiler.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/distutils/command/bdist_msi.py
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```

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Found in path(s):

```
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/lib2to3/fixer_base.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/lib2to3/fixes/fix_exec.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/lib2to3/pygram.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/lib2to3/tests/test_pytree.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/lib2to3/fixes/fix_long.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/lib2to3/patcomp.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/lib2to3/refactor.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/lib2to3/fixes/fix_apply.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/lib2to3/fixes/fix_ne.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/lib2to3/patcomp.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/lib2to3/fixes/fix_execfile.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/lib2to3/fixes/fix_print.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
```

extensions-3.8.5/3.9/Lib/lib2to3/fixes/fix_ne.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/lib2to3/tests/test_pytree.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/lib2to3/fixes/fix_execfile.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/lib2to3/fixes/fix_long.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/lib2to3/pytree.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/lib2to3/fixes/fix_long.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/lib2to3/fixes/fix_apply.py
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* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/lib2to3/fixes/fix_exec.py
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* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/lib2to3/tests/pytree_idempotency.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/lib2to3/refactor.py
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* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/lib2to3/pytree.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/lib2to3/fixes/fix_ne.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/lib2to3/fixes/fix_execfile.py
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* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/lib2to3/fixes/fix_repr.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/lib2to3/fixes/fix_execfile.py
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* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/lib2to3/fixes/fix_has_key.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/lib2to3/pytree.py
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* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/lib2to3/tests/test_pytree.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/lib2to3/fixer_base.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/lib2to3/fixes/fix_apply.py

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- * /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/lib2to3/pgen2/__init__.py
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- * /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/lib2to3/pgen2/pgen.py
- * /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/lib2to3/pgen2/pgen.py
- * /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/lib2to3/pgen2/parse.py
- * /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.6/Lib/lib2to3/pgen2/parse.py
- * /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/lib2to3/pgen2/conv.py
- * /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/lib2to3/pgen2/__init__.py
- * /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/lib2to3/pgen2/grammar.py
- * /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/lib2to3/pgen2/literals.py
- * /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/lib2to3/pgen2/grammar.py
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- * /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.7/Lib/lib2to3/pgen2/conv.py
- * /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.9/Lib/lib2to3/pgen2/pgen.py
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- * /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-extensions-3.8.5/3.8/Lib/lib2to3/pgen2/__init__.py
- * /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-

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extensions-3.8.5/3.8/Lib/lib2to3/pgen2/parse.py
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extensions-3.8.5/3.6/Lib/lib2to3/pgen2/conv.py
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file.write('License: %s\n' % self.get_license())
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* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
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extensions-3.8.5/3.9/Lib/distutils/dist.py
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```

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/******
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*****/
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* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
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Found in path(s):

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extensions-3.8.5/3.6/Lib/lib2to3/pgen2/tokenize.py
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1.212 openssh 8.2p1

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* @version 3.0 (December 2000)

*

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

*

* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

* @author Paulo Barreto <paulo.barreto@terra.com.br>

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1.215 distro-info 0.23ubuntu1

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Upstream-Contact: Benjamin Drung <bdrung@debian.org>

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1.216 pexpect 4.6.0

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1.218 libunwind 1.2.1

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1.219 pyprocess 0.6.0

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1.220 python-colorama 0.4.3

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1.221 zlib 1.2.11.dfsg

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1.225 pcre2 10.34

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Written by: Philip Hazel

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1.226 libsodium 1.0.18

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1.227 libxcb 1.14

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1.228 libpsl 0.21.0

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1.229 libevent 2.1.11-stable

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

```
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(at your option) any later version.
```

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```
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```

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1.231 cloud-initramfs-tools 0.45ubuntu1

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Version 3, 29 June 2007

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1.232 tpm2-tss 2.3.2

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1.237 vim 8.1.2269

1.238 libsmbios 2.4.3

1.238.1 Available under license :

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

```
*/
/*
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*
*/
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*
*/
```

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*/

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Fri, 1 Jul 2005 23:34:21 +0200.

It was downloaded from:

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1.239 update-notifier 3.192.30.5

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It was downloaded via bzip from:

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Version 3, 29 June 2007

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Version 3, 29 June 2007

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1.242 python-secretstorage 2.3.1

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1.243 gcab 1.4

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

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

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

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

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

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1.244 python-httpplib2 0.14.0

1.244.1 Available under license :

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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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1.246 gpm 1.20.7

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1.247 six 1.14.0

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The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and otherwise worked to improve six:

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1.248 python-defaults 3.8.2-0ubuntu2

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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by

the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

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

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

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

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1.3 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)
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1.249 libx11 1.6.9

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man/bitstring.3bsd

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src/arc4random_linux.h
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src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
src/getentropy_aix.c

src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
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Files:

src/explicit_bzero.c

src/chacha_private.h

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Files:

man/mdX.3bsd

src/hash/md5hl.c

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1.255 distro-info-data 0.43ubuntu1.4

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1.256 ncurses 6.2

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Files: progs/tset.c ncurses/tinfo/read_termcap.c

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1.257 iputils 20190709

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1.261 python-jsonpatch 1.23

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1.265 libassuan 2.5.3

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1.266 libnfnetlink 1.0.1

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1.267 brotli 1.0.7

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1.268 isc-dhcp 4.4.1

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* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

1.269 efivar 37

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

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

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1.270 snapd 2.48.3+20.04

1.270.1 Available under license :

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// -*- Mode: Go; indent-tabs-mode: t -*-

/*

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*/

package spdx

// from <https://spdx.org/licenses/>

var osi = []string{

"AFL-1.1",

"AFL-1.2",

"AFL-2.0",

"AFL-2.1",

"AFL-3.0",
"APL-1.0",
"Apache-1.1",
"Apache-2.0",
"APSL-1.0",
"APSL-1.1",
"APSL-1.2",
"APSL-2.0",
"Artistic-1.0",
"Artistic-1.0-Perl",
"Artistic-1.0-cl8",
"Artistic-2.0",
"AAL",
"BSL-1.0",
"BSD-2-Clause",
"BSD-3-Clause",
"0BSD",
"CECILL-2.1",
"CNRI-Python",
"CDDL-1.0",
"CPAL-1.0",
"CPL-1.0",
"CATOSL-1.1",
"CUA-OPL-1.0",
"EPL-1.0",
"ECL-1.0",
"ECL-2.0",
"EFL-1.0",
"EFL-2.0",
"Entessa",
"EUDatagrid",
"EUPL-1.1",
"Fair",
"Frameworkx-1.0",
"AGPL-3.0",
"GPL-2.0",
"GPL-3.0",
"LGPL-2.1",
"LGPL-3.0",
"LGPL-2.0",
"HPND",
"IPL-1.0",
"Intel",
"IPA",
"ISC",
"LPPL-1.3c",
"LiLiQ-P-1.1",
"LiLiQ-Rplus-1.1",


```
"LiLiQ-R-1.1",
"LPL-1.02",
"LPL-1.0",
"MS-PL",
"MS-RL",
"MirOS",
"MIT",
"Motosoto",
"MPL-1.0",
"MPL-1.1",
"MPL-2.0",
"MPL-2.0-no-copyleft-exception",
"Multics",
"NASA-1.3",
"Naumen",
"NGPL",
"Nokia",
"NPOSL-3.0",
"NTP",
"OCLC-2.0",
"OGTSL",
"OSL-1.0",
"OSL-2.0",
"OSL-2.1",
"OSL-3.0",
"OSET-PL-2.1",
"PHP-3.0",
"PostgreSQL",
"Python-2.0",
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"RPSL-1.0",
"RPL-1.1",
"RPL-1.5",
"RSCPL",
"OFL-1.1",
"SimPL-2.0",
"Sleepycat",
"SISSL",
"SPL-1.0",
"Watcom-1.0",
"UPL-1.0",
"NCSA",
"VSL-1.0",
"W3C",
"Xnet",
"Zlib",
"ZPL-2.0",
}
```

```
var allLicenses = []string{
    "Glide",
    "Abstyles",
    "AFL-1.1",
    "AFL-1.2",
    "AFL-2.0",
    "AFL-2.1",
    "AFL-3.0",
    "AMPAS",
    "APL-1.0",
    "Adobe-Glyph",
    "APAFML",
    "Adobe-2006",
    "AGPL-1.0",
    "Afpmparse",
    "Aladdin",
    "ADSL",
    "AMDPLPA",
    "ANTLR-PD",
    "Apache-1.0",
    "Apache-1.1",
    "Apache-2.0",
    "AML",
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    "APSL-1.1",
    "APSL-1.2",
    "APSL-2.0",
    "Artistic-1.0",
    "Artistic-1.0-Perl",
    "Artistic-1.0-cl8",
    "Artistic-2.0",
    "AAL",
    "Bahyph",
    "Barr",
    "Beerware",
    "BitTorrent-1.0",
    "BitTorrent-1.1",
    "BSL-1.0",
    "Borceux",
    "BSD-2-Clause",
    "BSD-2-Clause-FreeBSD",
    "BSD-2-Clause-NetBSD",
    "BSD-3-Clause",
    "BSD-3-Clause-Clear",
    "BSD-3-Clause-No-Nuclear-License",
    "BSD-3-Clause-No-Nuclear-License-2014",
    "BSD-3-Clause-No-Nuclear-Warranty",
```

"BSD-4-Clause",
"BSD-Protection",
"BSD-Source-Code",
"BSD-3-Clause-Attribution",
"0BSD",
"BSD-4-Clause-UC",
"bzip2-1.0.5",
"bzip2-1.0.6",
"Caldera",
"CECILL-1.0",
"CECILL-1.1",
"CECILL-2.0",
"CECILL-2.1",
"CECILL-B",
"CECILL-C",
"CIBArtistic",
"MIT-CMU",
"CNRI-Jython",
"CNRI-Python",
"CNRI-Python-GPL-Compatible",
"CPOL-1.02",
"CDDL-1.0",
"CDDL-1.1",
"CPAL-1.0",
"CPL-1.0",
"CATOSL-1.1",
"Condor-1.1",
"CC-BY-1.0",
"CC-BY-2.0",
"CC-BY-2.5",
"CC-BY-3.0",
"CC-BY-4.0",
"CC-BY-ND-1.0",
"CC-BY-ND-2.0",
"CC-BY-ND-2.5",
"CC-BY-ND-3.0",
"CC-BY-ND-4.0",
"CC-BY-NC-1.0",
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"CC-BY-NC-2.5",
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"Cube",
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"ECL-1.0",
"ECL-2.0",
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"MIT-enna",
"Entessa",
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"EUDatagrid",
"EUPL-1.0",
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"Fair",
"MIT-feh",
"Framework-1.0",
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"FSFULLR",
"Giftware",
"GL2PS",
"Glulxe",
"AGPL-3.0",

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"GFDL-1.3",
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"GPL-2.0",
"GPL-3.0",
"LGPL-2.1",
"LGPL-3.0",
"LGPL-2.0",
"gnuplot",
"gSOAP-1.3b",
"HaskellReport",
"HPND",
"IBM-pibs",
"IPL-1.0",
"ICU",
"ImageMagick",
"iMatix",
"Imlib2",
"IJG",
"Info-ZIP",
"Intel-ACPI",
"Intel",
"Interbase-1.0",
"IPA",
"ISC",
"JasPer-2.0",
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"LPPL-1.2",
"LPPL-1.3a",
"LPPL-1.3c",
"Latex2e",
"BSD-3-Clause-LBNL",
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"LGPLLR",
"Libpng",
"libtiff",
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"LAL-1.3",
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"LiLiQ-Rplus-1.1",
"LiLiQ-R-1.1",
"LPL-1.02",
"LPL-1.0",
"MakeIndex",
"MTLL",

"MS-PL",
"MS-RL",
"MirOS",
"MITNFA",
"MIT",
"Motosoto",
"MPL-1.0",
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"MPL-2.0",
"MPL-2.0-no-copyleft-exception",
"mpich2",
"Multics",
"Mup",
"NASA-1.3",
"Naumen",
"NBPL-1.0",
"Net-SNMP",
"NetCDF",
"NGPL",
"NOSL",
"NPL-1.0",
"NPL-1.1",
"Newsletr",
"NLPL",
"Nokia",

"NPOSL-3.0",

"NLOD-1.0",
"Noweb",
"NRL",
"NTP",

"Nunit",
"OCLC-2.0",

"ODbL-1.0",
"PDDL-1.0",
"OCCT-PL",
"OGTSL",

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"OLDAP-2.5",
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"OPL-1.0",
"OSL-1.0",

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"OSL-2.0",

"OSL-2.1",

"OSL-3.0",

"OpenSSL",
"OSET-PL-2.1",

"PHP-3.0",

"PHP-3.01",
"Plexus",
"PostgreSQL",

"psfrag",
"psutils",
"Python-2.0",

"QPL-1.0",

"Qhull",
"Rdisc",
"RPSL-1.0",

"RPL-1.1",

"RPL-1.5",

"RHeCos-1.1",
"RSCPL",

"RSA-MD",
"Ruby",

"SAX-PD",
"Saxpath",
"SCEA",
"SWL",
"SMPPL",
"Sendmail",
"SGI-B-1.0",
"SGI-B-1.1",
"SGI-B-2.0",
"OFL-1.0",
"OFL-1.1",

"SimPL-2.0",

"Sleepycat",

"SNIA",
"Spencer-86",
"Spencer-94",
"Spencer-99",
"SMLNJ",
"SugarCRM-1.1.3",
"SISSL",

"SISSL-1.2",
"SPL-1.0",

"Watcom-1.0",

"TCL",
"TCP-wrappers",
"Unlicense",
"TMate",
"TORQUE-1.1",
"TOSL",
"Unicode-DFS-2015",
"Unicode-DFS-2016",
"Unicode-TOU",
"UPL-1.0",

"NCSA",

"Vim",
"VOSTROM",
"VSL-1.0",

"W3C-20150513",
"W3C-19980720",


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"W3C",

"Wsuipa",
"Xnet",

"X11",
"Xerox",
"XFree86-1.1",
"xinetd",
"xpp",
"XSkat",
"YPL-1.0",
"YPL-1.1",
"Zed",
"Zend-2.0",
"Zimbra-1.3",
"Zimbra-1.4",
"Zlib",

"zlib-acknowledgement",
"ZPL-1.1",
"ZPL-2.0",

"ZPL-2.1",

// FIXME: non SPDX licenses that the snapstore uses
"Proprietary",
}

// from
https://www.google.com/url?q=https://docs.google.com/a/s.sfusd.edu/document/d/1wE_zvLU4c291ACi9wIJmQoE4ltKRW4rzM1TYiIvEVOs/edit?pli%3D1%23heading%3Dh.ruv3yl8g6czd&sa=D&ust=1473291615601000&usg=AFQjCNFyLcPLdEarX1TOesGWxg9Afb57mA
var licenseExceptions = []string{
    "Autoconf-exception-2.0",
    "Autoconf-exception-3.0",
    "Bison-exception-2.2",
    "Classpath-exception-2.0",
    "eCos-exception-2.0",
    "Font-exception-2.0",
    "GCC-exception-2.0",
    "GCC-exception-3.1",
    "WxWindows-exception-3.1",
}

```

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Gocheck - A rich testing framework for Go

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Upstream-Name: snappy

Source: <https://github.com/snapcore/snapd>

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tomb - support for clean goroutine termination in Go.

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Upstream-Name: snappy

Source: <https://github.com/snapcore/snapd>

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```

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```
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```

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

```
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Version 3, 29 June 2007

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Source: <https://launchpad.net/libeatmydata>

Files: *

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1.274 at 3.1.23

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1.276 libpng 1.6.37

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1.277 libfido2 1.3.1

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1.278 libcap-ng 0.7.9

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

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

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

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

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

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

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

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1.279 rtmpdump 2.4+20151223.gitfa8646d.1

1.279.1 Available under license :

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Version 2.1, February 1999

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allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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1.280 Imdb 0.9.24

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1.281 python-certifi 2019.11.28

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

1.282 cpp 10.2.0

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1.289 klibc 2.0.7

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```

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1.290 kmod 27

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```

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```

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Files: debian/*

1.293 ssh-import-id 5.10

1.293.1 Available under license :

```
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#
# ssh-import-id - authorize a user by fetching their key
#                 from a public SSH keyserver; Launchpad.net
#                 by default
#
# Copyright (C) 2010 Canonical Ltd.
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#         Scott Moser <smoser@canonical.com>
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```

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1.294 python-setuptools 45.2.0

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1.297 iptables 1.8.4

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1.298 pam 1.3.1

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1.299 libssh 0.9.3

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

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1.300 libxmlb 0.1.15

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1.301 attr 2.4.48

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1.302 grep 3.4

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1.305 iso-codes 4.4

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Version 2.1, February 1999

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1.306 Isb 11.1.0ubuntu2

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Upstream-Name: LSB implementation package

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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

```
<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns:xi="http://www.w3.org/2001/XInclude"
  xmlns:db="http://docbook.org/ns/docbook">

  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
    <xsl:text>
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      file, You can obtain one at http://mozilla.org/MPL/2.0/.
    </xsl:text>
  </xsl:variable>

  <xsl:variable name="isc.copyright">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text">
        <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
          <xsl:text>Copyright (C) </xsl:text>
          <xsl:call-template name="copyright.years">
            <xsl:with-param name="years" select="year"/>
          </xsl:call-template>
          <xsl:text> </xsl:text>
          <xsl:value-of select="holder"/>
          <xsl:value-of select="$isc.copyright.breakline"/>
        </xsl:for-each>
      </xsl:with-param>
    </xsl:call-template>
  </xsl:variable>
```

```
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>
```

<!--

- Local variables:

- mode: sgml

- End:

-->

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1.308 libxau 1.0.9

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

Found in path(s):

```
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```

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*/
```

Found in path(s):

```
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
```

```
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
```

```
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
```

```
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.c
```

```
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
```


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*/

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

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

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

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

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

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

say:

```
make all
```

su and say:

```
make install
```

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

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file

for help on this.

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

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

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

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

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

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

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

Found in path(s):

```
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/INSTALL
```

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```
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/popen.c
```

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

Vixie Cron V3.0

December 27, 1993

[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]

[V2.0 was July 5, 1990]

[V2.0-beta was December 9, 1988]

[V1.0 was May 6, 1987]

Paul Vixie

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

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

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

Read all the FEATURES, INSTALL, and CONVERSION files

Edit config.h

Edit Makefile

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

'make'

'su' and 'make install'

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

kill your existing cron process

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

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

(either put them all in "root"'s crontab, or divide it up and rip out all the 'su' commands, collapse the lengthy lists into ranges with steps -- basically, this step is as much work as you want to make it)

start up the new cron

(must be done as root)

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

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

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

Found in path(s):

* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/README

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```
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/Makefile
```

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

Found in path(s):

```
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.5
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* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/
```

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* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.h

* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/pathnames.h

* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/externs.h

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*

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

*/

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.\" * I'll try to keep a version up to date. I can be reached as follows:
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.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

Found in path(s):

```
*/opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.8
```

1.312 tmux 3.0a

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1.313 python-cryptography 2.8

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1.314 findutils 4.7.0

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1.315 lazr-restfulclient 0.14.2

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1.316 perl 5.30.0

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

abstract: 'Build and install Perl modules'

author:

- 'Ken Williams <kwilliams@cpan.org>'

- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."

build_requires:

File::Temp: 0.15

Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>
version: 1.4
name: Module-Build
resources:
MailingList: <mailto:module-build@perl.org>
license: <http://dev.perl.org/licenses/>
repository: <http://github.com/dagolden/module-build/>
version: 3

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```

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```

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```

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```
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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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```

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

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The End

```
#!/perl
```

```
=head1 NAME
```

```
copyright.t
```

```
=head1 DESCRIPTION
```

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

```
=cut
```

```
use strict;
```

```
use Config;
```

```
BEGIN { require './test.pl' }
```

```
if ( $Config{usecrosscompile} ) {
```

```
    skip_all( "Not all files are available during cross-compilation" );
```

```
}
```

```
my ($opt) = @ARGV;
```

```
my $readme_year = readme_year();
```

```
my $v_year = v_year();
```

```
# Check that both copyright dates are up-to-date, but only if requested, so
```

```
# that tests still pass for people intentionally working on older versions:
```

```
if ($opt eq '--now')
```

```
{
```

```
    my $current_year = (gmtime)[5] + 1900;
```

```
    is $v_year, $current_year, 'perl -v copyright includes current year';
```

```
    is $readme_year, $current_year, 'README copyright includes current year';
```

```
}
```

```
# Otherwise simply check that the two copyright dates match each other:
```

```

else
{
is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

open my $readme, '<', './README' or die "Opening README failed: $!";

# The copyright message is the first paragraph:
local $/ = "";
my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /\b(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

$year;
}

```

1.317 dash 0.5.10.2

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1.318 Izo 2.10

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1.320 systemd 245.4

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1.323 bsdmainutils 11.1.2ubuntu3

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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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1.324 markupsafe 1.1.0

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* /opt/cola/permits/1144634748_1616103077.63/0/sailfishos-mirror-markupsafe-1-1-0-0-g9963f3d-1-tar-gz/sailfishos-mirror-markupsafe-9963f3d/LICENSE.rst

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```
* /opt/cola/permits/1144634748_1616103077.63/0/sailfishos-mirror-markupsafe-1-1-0-0-g9963f3d-1-tar-gz/sailfishos-mirror-markupsafe-9963f3d/README.rst
```

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```
* /opt/cola/permits/1144634748_1616103077.63/0/sailfishos-mirror-markupsafe-1-1-0-0-g9963f3d-1-tar-gz/sailfishos-mirror-markupsafe-9963f3d/src/markupsafe/_constants.py
```

```
* /opt/cola/permits/1144634748_1616103077.63/0/sailfishos-mirror-markupsafe-1-1-0-0-g9963f3d-1-tar-gz/sailfishos-mirror-markupsafe-9963f3d/src/markupsafe/_compat.py
```

```
* /opt/cola/permits/1144634748_1616103077.63/0/sailfishos-mirror-markupsafe-1-1-0-0-g9963f3d-1-tar-gz/sailfishos-mirror-markupsafe-9963f3d/src/markupsafe/___init___py
```

```
* /opt/cola/permits/1144634748_1616103077.63/0/sailfishos-mirror-markupsafe-1-1-0-0-g9963f3d-1-tar-gz/sailfishos-mirror-markupsafe-9963f3d/src/markupsafe/_native.py
```

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```
/**
```

```
* markupsafe._speedups
```

```
* ~~~~~
```

```
*
```

```
* C implementation of escaping for better performance. Used instead of
```

```
* the native Python implementation when compiled.
```

```
*
```

```
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```
*/
```

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```
* /opt/cola/permits/1144634748_1616103077.63/0/sailfishos-mirror-markupsafe-1-1-0-0-g9963f3d-1-tar-gz/sailfishos-mirror-markupsafe-9963f3d/src/markupsafe/_speedups.c
```

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```
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```

1.325 python-idna 2.8

1.325.1 Available under license :

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```
"""
```

A library to support the Internationalised Domain Names in Applications

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

```
"""
```

```
import io, sys
```

```
from setuptools import setup
```

```
def main():
```

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

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

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

```
    package_data = { }
```

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

```
    arguments = {
```

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

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

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

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

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

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

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

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

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

```
        'classifiers': [
```

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

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

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

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

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

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

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

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

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

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

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

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

```
            'Topic :: Internet :: Name Service (DNS)',
```

```
            'Topic :: Software Development :: Libraries :: Python Modules',
```

```
            'Topic :: Utilities',
```

```
        ],
```

```
        'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
```

```
        'test_suite': 'tests',
```

```
}  
  
setup(**arguments)  
  
if __name__ == '__main__':  
    main()
```

Found in path(s):

```
* /opt/cola/permits/1144635275_1616115237.42/0/python-idna-2.8-6.module_el8.3.0+441+3b561464-1.src.rpm-cosi-expand-archive-vRHeNbDH/idna-2.8.tar.gz-cosi-expand-archive-RRR4bQBH/idna-2.8/setup.py
```

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Metadata-Version: 1.2

Name: idna

Version: 2.8

Summary: Internationalized Domain Names in Applications (IDNA)

Home-page: <https://github.com/kjd/idna>

Author: Kim Davies

Author-email: kim@cynosure.com.au

License: BSD-like

Description: Internationalized Domain Names in Applications (IDNA)

=====

Support for the Internationalised Domain Names in Applications (IDNA) protocol as specified in `RFC 5891 <<http://tools.ietf.org/html/rfc5891>>`_. This is the latest version of the protocol and is sometimes referred to as “IDNA 2008”.

This library also provides support for Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <<http://unicode.org/reports/tr46/>>`_.

This acts as a suitable replacement for the “encodings.idna” module that comes with the Python standard library, but only supports the old, deprecated IDNA specification (`RFC 3490 <<http://tools.ietf.org/html/rfc3490>>`_).

Basic functions are simply executed:

```
.. code-block:: pycon
```

```
# Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.
```

```
# Python 2
>>> import idna
>>> idna.encode(u'.')
'xn--eckwd4c7c.xn--zckzah'
>>> print idna.decode('xn--eckwd4c7c.xn--zckzah')
.
```

Packages

The latest tagged release version is published in the PyPI repository:

```
.. image:: https://badge.fury.io/py/idna.svg
   :target: http://badge.fury.io/py/idna
```

Installation

To install this library, you can use pip:

```
.. code-block:: bash
```

```
$ pip install idna
```

Alternatively, you can install the package using the bundled setup script:

```
.. code-block:: bash
```

```
$ python setup.py install
```

This library works with Python 2.7 and Python 3.4 or later.

Usage

For typical usage, the `encode` and `decode` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

```
.. code-block:: pycon
```

```
# Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.
```

You may use the codec encoding and decoding methods using the `idna.codec` module:

```
.. code-block:: pycon
```

```
# Python 2
>>> import idna.codec
>>> print u'.'.encode('idna')
xn--80ahd1agd.xn--80akhbyknj4f
>>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
.
```


Conversions can be applied at a per-label basis using the `uulabel` or `ualabel` functions if necessary:

```
.. code-block:: pycon
```

```
# Python 2
>>> idna.alabel(u"
'xn--0zwm56d'
```

Compatibility Mapping (UTS #46)

```
+++++
```

As described in [RFC 5895](http://tools.ietf.org/html/rfc5895) [_](http://tools.ietf.org/html/rfc5895), the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode Consortium. Known as [Unicode IDNA Compatibility Processing](http://unicode.org/reports/tr46/) [_](http://unicode.org/reports/tr46/), it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as **LATIN CAPITAL LETTER K** is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.

```
.. code-block:: pycon
```

```
# Python 3
>>> import idna
>>> idna.encode(u'Königsgäßchen')
...
idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
>>> idna.encode('Königsgäßchen', uts46=True)
b'xn--knigsgchen-b4a3dun'
>>> print(idna.decode('xn--knigsgchen-b4a3dun'))
königsgäßchen
```

Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the **LATIN SMALL LETTER SHARP S** (ß) was converted into two **LATIN SMALL LETTER S** (ss), whereas in the current IDNA specification this conversion is not performed.

```
.. code-block:: pycon
```

```
# Python 2
>>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
'xn--knigsgsschen-lcb0w'
```

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

`encodings.idna` Compatibility

+++++

Function calls from the Python built-in `encodings.idna` module are mapped to their IDNA 2008 equivalents using the `idna.compat` module. Simply substitute the `import` clause in your code to refer to the new module name.

Exceptions

All errors raised during the conversion following the specification should raise an exception derived from the `idna.IDNAError` base class.

More specific exceptions that may be generated as `idna.IDNABidiError` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; `idna.InvalidCodepoint` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and `idna.InvalidCodepointContext` when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

Building and Diagnostics

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script `tools/idna-data`.

This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:

* `idna-data make-libdata`. Generates `idnadata.py` and `uts46data.py`, the pre-calculated lookup tables used for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the `idnadata.py` and `uts46data.py` files.

* `idna-data make-table`. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by IANA <<http://iana.org/>>.

* `idna-data U+0061`. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using `idna-data -h`. Most notably, the `--version` argument allows the specification of the version of Unicode to use in computing the table data. For example, `idna-data --version 9.0.0 make-libdata` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.7.

Testing

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, 'Unicode IDNA Compatibility Processing' <<http://unicode.org/reports/tr46/>>.

The tests are run automatically on each commit at Travis CI:

```
.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
   :target: https://travis-ci.org/kjd/idna
```

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: System Administrators

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Topic :: Internet :: Name Service (DNS)

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Classifier: Topic :: Utilities

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

Found in path(s):

* /opt/cola/permits/1144635275_1616115237.42/0/python-idna-2.8-6.module_el8.3.0+441+3b561464-1.src.rpm-cosi-expand-archive-vRHeNbDH/idna-2.8.tar.gz-cosi-expand-archive-RRR4bQBH/idna-2.8/idna.egg-info/PKG-INFO

* /opt/cola/permits/1144635275_1616115237.42/0/python-idna-2.8-6.module_el8.3.0+441+3b561464-1.src.rpm-cosi-expand-archive-vRHeNbDH/idna-2.8.tar.gz-cosi-expand-archive-RRR4bQBH/idna-2.8/PKG-INFO

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1.326 libtextwrapinperl 0.06

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1.327 kbd 2.0.4

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1.332 util-linux 2.34

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1.333 liblocale-gettext-perl 1.07

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Source: <https://metacpan.org/release/gettext>

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1.334 libcbor 0.6.0

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1.335 pyopenssl 19.0.0

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1.336 pyrsistent 0.15.5

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1.341 libffi 3.3

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1.342 mokutil 0.3.0+1538710437.fb6250f

1.343 mawk 1.3.4.20200120

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1.344 pythonurllib 1.25.8

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```
# Contributions to the urllib3 project
```

```
## Creator & Maintainer
```

```
* Andrey Petrov <andrey.petrov@shazow.net>
```

```
## Contributors
```

In chronological order:

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

```
* HTTPS patch (which inspired HTTPSConnectionPool)
```

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

- * NTLM-authenticated HTTPSConnectionPool
- * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

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

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

- * p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
- * Code review, PEP8 compliance, benchmark fix

- * kennethreitz <me@kennethreitz.com>
- * Bugfixes, suggestions, Requests integration

- * georgemarshall <https://github.com/georgemarshall>
- * Bugfixes, Improvements and Test coverage

- * Thomas Kluyver <thomas@kluyver.me.uk>
- * Python 3 support

- * brandon-rhodes <http://rhodesmill.org/brandon>
- * Design review, bugfixes, test coverage.

- * studer <theo.studer@gmail.com>
- * IPv6 url support and test coverage

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

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

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

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

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

- * Bryce Boe <bbzbryce@gmail.com>

- * Correct six.moves conflict
- * Fixed pickle support of some exceptions

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- * Bugfixes, docs, test coverage

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- * HTTPResponse contains the last Retry object.

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

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

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

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

- * Tom White <s6ygl3z3@mail2tor.com>
 - * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- * Chris Jerdonek <chris.jerdonek@gmail.com>
- * Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

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

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1.345 tcp-wrappers 7.6.q

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1.346 git 2.25.1

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1.349 python3.8 3.8.5

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A. HISTORY OF THE SOFTWARE

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes

1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.351 open-vm-tools 11.1.5

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```
>>> frebsd-base64-4.8
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base64.c -- routines to encode/decode base64 data

\$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp \$ /

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1.352 sg3-utils 1.44

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Douglas Gilbert
10th April 2012

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1.353 d-conf 0.36.0

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1.355 python-pyasn1-modules 0.2.1

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

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

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

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

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

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

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

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

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1.359 libgcrypt 1.8.5

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```
Gnomovision version 69, Copyright (C) year name of author
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This is free software, and you are welcome to redistribute 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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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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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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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

^L

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

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```
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1.361 fonts-ubuntu 0.83

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Ubuntu Font Family Licensing FAQ

Stylistic Foundations

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

When developing an open project, it is generally necessary to have firm foundations: a font needs to maintain harmony within itself even across many type designers and writing systems. For the [1]Ubuntu Font Family, the process has been guided with the type foundry Dalton Maag setting the project up with firm stylistic foundation covering several left-to-right scripts: Latin, Greek and Cyrillic; and right-to-left scripts: Arabic and Hebrew (due in 2011).

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

Licensing

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

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

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

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

The public discussion must now involve everyone in the (comparatively new) area of the libre/open font community; including font users, software freedom advocates, open source supporters and existing libre font developers. Most importantly, the minds and wishes of professional type designers considering entering the free software business community must be taken on board.

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

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

Document embedding

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

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

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

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

GPL. (The exception is being reviewed).

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

Long-term licensing

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

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

* Canonical will support and fund legal work on libre font licensing. It is recognised that the cost and time commitments required are likely to be significant. We invite other capable parties to join in supporting this activity.

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

Ubuntu Font Licence

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

* Clarification:

1. Document embedding (see [15]embedding section above).

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

Streamlining:

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

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

References

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 3. <http://www.daltonmaag.com/>
 4. http://en.wikipedia.org/wiki/Network_effect
 5. <http://scripts.sil.org/>
 6. <http://openfontlibrary.org/>
 7. <http://www.softwarefreedom.org/>
 8. <http://code.google.com/webfonts>
 9. <http://www.gnu.org/licenses/gpl-faq.html#CanIUseGPLToolsForNF>
 10. http://scripts.sil.org/OFL_web
 11. http://scripts.sil.org/OFL-FAQ_web
 12. <http://www.gnu.org/licenses/gpl-faq.html#FontException>
 13. <https://launchpad.net/~uff-contributors>
 14. <http://font.ubuntu.com/ufl/ubuntu-font-licence-1.0.txt>
 15. <http://font.ubuntu.com/ufl/FAQ.html#embedding>
 16. <http://font.ubuntu.com/ufl/ofl-1.1-ufl-1.0.diff.html>
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1.362 libcanberra 0.30

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

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1.365 sed 4.7

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1.369 python-service-identity 18.1.0

1.369.1 Available under license :

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1.370 libfastjson 0.99.8

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1.371 pymacaroons 0.13.0

1.371.1 Available under license :

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1.372 usbutils 012

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of

running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

@item

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

@item

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

@enumerate a

@item

The modified work must itself be a software library.

@item

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

@item

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

@item

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.)
@end enumerate

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

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

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@item

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

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

@item

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.

@item

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.

@item

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:

@enumerate a

@item

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.)

@item

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.

@item

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.

@item

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.

@item

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

@end enumerate

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.

@item

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

@enumerate a

@item

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

@item

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

@end enumerate

@item

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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

@item

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@item

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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

@smallexample

@var{one line to give the library's name and an idea of what it does.}

Copyright (C) @var{year} @var{name of author}

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

@end smallexample

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

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

```
@smallexample
```

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

```
@var{signature of Ty Coon}, 1 April 1990
```

```
Ty Coon, President of Vice
```

```
@end smallexample
```

That's all there is to it!

```
@c The GNU General Public License.
```

```
@center Version 2, June 1991
```

```
@c This file is intended to be included within another document,
```

```
@c hence no sectioning command or @node.
```

```
@display
```

```
Copyright © 1989, 1991 Free Software Foundation, Inc.
```

```
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
```

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```
@end display
```

```
@heading Preamble
```

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

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

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

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

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@enumerate 0

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is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

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

@item

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@enumerate a

@item

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

@item

You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

@item

If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program,

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 Program, 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 Program.

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

@item

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@enumerate a

@item

Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

@item

Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

@item

Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

@end enumerate

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any

associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and ``any later version'', you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software

Foundation.

@item

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@iftex

@heading NO WARRANTY

@end iftex

@ifinfo

@center NO WARRANTY

@end ifinfo

@item

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@item

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@end enumerate

@iftex

@heading END OF TERMS AND CONDITIONS

@end iftex

@ifinfo

@center END OF TERMS AND CONDITIONS

@end ifinfo

@page

@heading Appendix: How to Apply These Terms to Your New Programs

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

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

@smallexample

@var{one line to give the program's name and a brief idea of what it does.}

Copyright (C) @var{yyyy} @var{name of author}

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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

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

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:

@smallexample

Gnomovision version 69, Copyright (C) @var{year} @var{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.

@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than @samp{show w} and

@samp{show c}; they could even be mouse-clicks or menu items---whatever suits your program.

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@example

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A "library" means a collection of software functions and/or data

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,

whether or not they are linked directly with the Library itself.

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

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

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

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

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1.379 fuse 2.9.9

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

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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.)

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1.381 screen 4.8.0

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