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1.4 tcl 8.6.12

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1.5 libiconv 1.17

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1.6 tk 8.6.12

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1.7 berkeley-db 6.0.19

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1.9 libxslt 1.1.39

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1.10 zlib 1.3.1

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

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.3.1, January 22nd, 2024

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The data format used by the zlib library is described by RFCs (Request for
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1.13 zlib 1.3.1

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1.15 ncurses 6.5

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1.16 libsodium 1.0.20

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1.17 expat 2.6.3

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1.18 mpdecimal 4.0.0

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1.19 openssl 3.4.1

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

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2.1.1	2.1+2.0.1	2001	PSF	yes
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1.29 typeguard 4.3.0

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1.30 zstandard 0.23.0

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1.31 pygments 2.18.0

1.31.1 Available under license :

---input---
!%$^*__--__._+++===-crazy-symbol

---tokens---
'!%$^*__--__._+++===-crazy-symbol' Name.Variable
'\n' Text.Whitespace
'# New ports collection makefile for: python25\n' Comment

'# Date created: 3 July 2003\n' Comment

'# Whom: Hye-Shik Chang <perky@FreeBSD.org>\n' Comment

'#\n' Comment

'# $FreeBSD: ports/lang/python25/Makefile,v 1.145 2007/10/03 23:22:04 edwin Exp $\n' Comment

'\n' Text.Whitespace

'PORTNAME'   Name.Variable
'='   Operator
'\t'   Text.Whitespace
'python25'   Text
'\n'   Text.Whitespace

'PORTVERSION' Name.Variable
'='   Operator
'\t'   Text.Whitespace
'2'   Literal.Number
'.5.1'   Text
'\n'   Text.Whitespace

'CATEGORIES' Name.Variable
'='   Operator
'\t'   Text.Whitespace
'lang'   Text
' '   Text.Whitespace
'python'   Text
' '   Text.Whitespace
'ipv6'   Text
'\n'   Text.Whitespace

'MASTER_SITES' Name.Variable
'='   Operator
'\t'   Text.Whitespace
'${'   Literal.String.Interpol
'PYTHON_MASTER_SITES' Name.Variable
'}'
          Literal.String.Interpol
'\n'   Text.Whitespace

'MASTER_SITE_SUBDIR' Name.Variable
'='   Operator
'\t'   Text.Whitespace
'${'   Literal.String.Interpol
'PYTHON_MASTER_SITE_SUBDIR' Name.Variable
'}'   Literal.String.Interpol
'\n'   Text.Whitespace

'DISTFILES'   Name.Variable
'='   Operator
'\t'   Text.Whitespace
'${'   Literal.String.Interpol
'PYTHON_DISTFILE' Name.Variable
'}'   Literal.String.Interpol
'\n'   Text.Whitespace

'\n' Text.Whitespace

'MAINTAINER' Name.Variable
'=' Operator
'\t' Text.Whitespace
'python@FreeBSD.org' Text
'\n' Text.Whitespace

'COMMENT' Name.Variable
'?=' Operator
'\t' Text.Whitespace
'An' Text
' ' Text.Whitespace
'interpreted' Text
' ' Text.Whitespace
'object-oriented' Text
' ' Text.Whitespace
'programming' Text
' ' Text.Whitespace
'language' Text
'\n'
Text.Whitespace

'\n' Text.Whitespace

'DIST_SUBDIR' Name.Variable
'=' Operator
'\t' Text.Whitespace
'python' Text
'\n' Text.Whitespace

'WRKSRC' Name.Variable
'=' Operator
'\t\t' Text.Whitespace
'${' Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/portbld.static' Text
'\n' Text.Whitespace

'PATCH_WRKSRC' Name.Variable
'=' Operator
'\t' Text.Whitespace
'${' Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'\n' Text.Whitespace

'GNU_CONFIGURE' Name.Variable
'=' Operator
'\t' Text.Whitespace
'yes' Text
'\n' Text.Whitespace

'CONFIGURE_TARGET' Name.Variable
'=' Operator
'\t' Text.Whitespace
'--build' Text
'=' Operator
'${' Literal.String.Interpol
'MACHINE_ARCH' Name.Variable
'}' Literal.String.Interpol
'-portbld-freebsd'
Text
'${' Literal.String.Interpol
'OSREL' Name.Variable
'}' Literal.String.Interpol
'\n' Text.Whitespace

'CONFIGURE_SCRIPT' Name.Variable
'=' Operator
'\t' Text.Whitespace
'../configure' Text
' ' Text.Whitespace
'# must be relative\n' Comment.Single

'CONFIGURE_ENV' Name.Variable
'=' Operator
'\t' Text.Whitespace
'OPT' Name.Variable
'=' Operator
'"' Literal.String.Double
'${' Literal.String.Interpol
'CFLAGS' Name.Variable
'}' Literal.String.Interpol
'"' Literal.String.Double
' ' Text.Whitespace
'SVNVERSION' Name.Variable
'=' Operator
'"echo freebsd"' Literal.String.Double
'\n' Text.Whitespace

'MAKE_ENV' Name.Variable
'=' Operator
'\t' Text.Whitespace

'VPATH' Name.Variable
'=' Operator
'' Literal.String.Double
'${' Literal.String.Interpol
'PYTHON_WRKSRC'
 Name.Variable
'}' Literal.String.Interpol
'' Literal.String.Double
'\n' Text.Whitespace

'INSTALLS_SHLIB' Name.Variable
'=' Operator
'\t' Text.Whitespace
'yes' Text
'\n' Text.Whitespace

'INSTALL_TARGET' Name.Variable
'=' Operator
'\t' Text.Whitespace
'altinstall' Text
'\n' Text.Whitespace

'MAN1' Name.Variable
'=' Operator
'\t\t' Text.Whitespace
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'.1' Text
'\n' Text.Whitespace

'\n' Text.Whitespace

'USE_PYTHON' Name.Variable
'=' Operator
'\t' Text.Whitespace
'yes' Text
'\n' Text.Whitespace

'PYTHON_VERSION' Name.Variable
'=' Operator
'\t' Text.Whitespace
'python2.5' Text
'\n' Text.Whitespace

'PYTHON_NO_DEPENDS' Name.Variable
'='

```
      Operator
'\t'        Text.Whitespace
'yes'       Text
'\n'        Text.Whitespace

'\n'        Text.Whitespace

'SHARED_WRKSRC' Name.Variable
'='         Operator
'\t'        Text.Whitespace
'${'        Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'         Literal.String.Interpol
'/portbld.shared' Text
'\n'        Text.Whitespace

'PLIST'     Name.Variable
'='         Operator
'\t\t'      Text.Whitespace
'${'        Literal.String.Interpol
'WRKDIR'    Name.Variable
'}'         Literal.String.Interpol
'/PLIST'    Text
'\n'        Text.Whitespace

'PLIST_TEMPLATE' Name.Variable
'?='        Operator
'${'        Literal.String.Interpol
'PKGDIR'    Name.Variable
'}'         Literal.String.Interpol
'/pkg-plist'  Text
'\n'        Text.Whitespace

'PLIST_SUB'   Name.Variable
'='         Operator
'\t'        Text.Whitespace
'PYVER'     Name.Variable
'='         Operator
'${'        Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'
        Punctuation
'S'         Name.Variable
'/python//'   Punctuation
'}'         Literal.String.Interpol
' '         Text.Whitespace
'\\\n'      Literal.String.Escape
```

```
'\t\t'        Text.Whitespace
'PYVER_WITHPAT' Name.Variable
'='           Operator
'${'          Literal.String.Interpol
'PORTVERSION' Name.Variable
':'           Punctuation
'S'           Name.Variable
'/.c/c/'      Punctuation
'}'           Literal.String.Interpol
'\n'          Text.Whitespace

'DEMODIR'     Name.Variable
'='           Operator
'\t'          Text.Whitespace
'${'          Literal.String.Interpol
'PREFIX'      Name.Variable
'}'           Literal.String.Interpol
'/share/examples/' Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'           Literal.String.Interpol
'\n'          Text.Whitespace

'TOOLSDIR'    Name.Variable
'='           Operator
'\t'          Text.Whitespace
'${'          Literal.String.Interpol
'PREFIX'      Name.Variable
'}'
    Literal.String.Interpol
'/share/'     Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'           Literal.String.Interpol
'\n'          Text.Whitespace

'\n'          Text.Whitespace

'BIN_SCRIPTS' Name.Variable
'='           Operator
'\t'          Text.Whitespace
'idle'        Text
' '           Text.Whitespace
'pydoc'       Text
' '           Text.Whitespace
'python'      Text
' '           Text.Whitespace
'python-shared' Text
```

```
' '           Text.Whitespace
'smtpd.py'    Text
' '           Text.Whitespace
'python-config' Text
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t\t'        Text.Whitespace
'python-shared-config' Text
'\n'          Text.Whitespace

'BINLINKS_SUB' Name.Variable
'='           Operator
'\t'          Text.Whitespace
'-e'          Text
' '           Text.Whitespace
"'s,smtpd,smtpd${PYTHON_VER},'" Literal.String.Single
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t\t'        Text.Whitespace
'-e'
          Text
' '           Text.Whitespace
"'s,(idle|pydoc|python-shared|python),\\1${PYTHON_VER},'" Literal.String.Single
'\n\n'        Text.Whitespace

'OPTIONS'     Name.Variable
'='           Operator
'\t'          Text.Whitespace
'THREADS'     Text
' '           Text.Whitespace
"'Enable thread support'" Literal.String.Double
' '           Text.Whitespace
'on'          Text
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t\t'        Text.Whitespace
'HUGE_STACK_SIZE' Text
' '           Text.Whitespace
"'Use a larger thread stack'" Literal.String.Double
' '           Text.Whitespace
'off'         Text
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t\t'        Text.Whitespace
```

```
'UCS4'       Text
' '          Text.Whitespace
'"Use UCS4 for unicode support"' Literal.String.Double
' '          Text.Whitespace
'on'         Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'PYMALLOC'
  Text
' '          Text.Whitespace
'"Use python\'s internal malloc"' Literal.String.Double
' '          Text.Whitespace
'on'         Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'IPV6'       Text
' '          Text.Whitespace
'"Enable IPv6 support"' Literal.String.Double
' '          Text.Whitespace
'on'         Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'FPECTL'     Text
' '          Text.Whitespace
'"Enable floating point exception handling"' Literal.String.Double
' '          Text.Whitespace
'off'        Text
'\n\n'       Text.Whitespace

'.include <bsd.port.pre.mk>\n' Comment.Preproc

'\n'         Text.Whitespace

'.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\n' Comment.Preproc

'MLINKS'     Name.Variable
'='          Operator
'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'          Literal.String.Interpol
'.1'
```

Text
' ' Text.Whitespace
'python.1' Text
'\n' Text.Whitespace

'PLIST_SUB' Name.Variable
'+=' Operator
'\t' Text.Whitespace
'IF_DEFAULT' Name.Variable
'=' Operator
'"' Literal.String.Double
'\n' Text.Whitespace

'.else\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
'\t' Text.Whitespace
'IF_DEFAULT' Name.Variable
'=' Operator
'"@comment " Literal.String.Double
'\n' Text.Whitespace

'.endif\n' Comment.Preproc

'\n' Text.Whitespace

'# workaround for a bug in base curses.h.\n' Comment

'CFLAGS' Name.Variable
'+=' Operator
'\t' Text.Whitespace
'-D__wchar_t' Text
'=' Operator
'wchar_t' Text
'\n' Text.Whitespace

'\n' Text.Whitespace

'.if !defined(WITHOUT_THREADS)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
'\t' Text.Whitespace
'--with-threads'
Text
'\n' Text.Whitespace

```
'CFLAGS'      Name.Variable
'+='          Operator
'\t\t'        Text.Whitespace
'${'          Literal.String.Interpol
'PTHREAD_CFLAGS' Name.Variable
'}'           Literal.String.Interpol
'\n'          Text.Whitespace

'.if defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

'CFLAGS'      Name.Variable
'+='          Operator
'\t\t'        Text.Whitespace
'-DTHREAD_STACK_SIZE' Text
'='           Operator
'0x20000'     Text
'\n'          Text.Whitespace

'.else\n'     Comment.Preproc

'CFLAGS'      Name.Variable
'+='          Operator
'\t\t'        Text.Whitespace
'-DTHREAD_STACK_SIZE' Text
'='           Operator
'0x100000'    Text
'\n'          Text.Whitespace

'.endif # defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

'CONFIGURE_ENV' Name.Variable
'+='          Operator
'\t\t'        Text.Whitespace
'LDFLAGS'     Name.Variable
'='           Operator
''''          Literal.String.Double
'${'          Literal.String.Interpol
'PTHREAD_LIBS'
 Name.Variable
'}'           Literal.String.Interpol
' '           Literal.String.Double
'${'          Literal.String.Interpol
'LDFLAGS'     Name.Variable
'}'           Literal.String.Interpol
''''          Literal.String.Double
'\n'          Text.Whitespace

'.else\n'     Comment.Preproc
```

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
'\t' Text.Whitespace
'--without-threads' Text
'\n' Text.Whitespace

'.if defined(LDFLAGS)\n' Comment.Preproc

'CONFIGURE_ENV' Name.Variable
'+=' Operator
'\t\t' Text.Whitespace
'LDFLAGS' Name.Variable
'=' Operator
'''' Literal.String.Double
'${' Literal.String.Interpol
'LDFLAGS' Name.Variable
'}' Literal.String.Interpol
'''' Literal.String.Double
'\n' Text.Whitespace

'.endif # defined(LDFLAGS)\n' Comment.Preproc

'.endif # !defined(WITHOUT_THREADS)\n' Comment.Preproc

'\n' Text.Whitespace

'.if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)\n'
 Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
'\t' Text.Whitespace
'--enable-unicode' Text
'=' Operator
'ucs4' Text
'\n' Text.Whitespace

'.endif\n' Comment.Preproc

'\n' Text.Whitespace

'.if defined(WITHOUT_PYMALLOC)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
' ' Text.Whitespace
'--without-pymalloc' Text

'\n' Text.Whitespace

'.endif\n' Comment.Preproc

'\n' Text.Whitespace

'.if ${ARCH} == i386\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
'\t' Text.Whitespace
'X86_ONLY' Name.Variable
'=' Operator
'"' Literal.String.Double
'\n' Text.Whitespace

'.else\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
'\t' Text.Whitespace
'X86_ONLY' Name.Variable
'=' Operator
'"@comment "' Literal.String.Double
'\n' Text.Whitespace

'.endif\n'
  Comment.Preproc

'.if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
' ' Text.Whitespace
'32BIT_ONLY' Name.Variable
'=' Operator
'"@comment "' Literal.String.Double
'\n' Text.Whitespace

'.else\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
' ' Text.Whitespace
'32BIT_ONLY' Name.Variable
'=' Operator
'"' Literal.String.Double
'\n' Text.Whitespace

'.endif\n'   Comment.Preproc

'.if ${ARCH} == sparc64\n' Comment.Preproc

'CFLAGS'   Name.Variable
'+='   Operator
'   '   Text.Whitespace
'-DPYTHON_DEFAULT_RECURSION_LIMIT' Text
'='   Operator
'900'   Literal.Number
'\n'   Text.Whitespace

'.endif\n'   Comment.Preproc

'\n'   Text.Whitespace

'.if !exists(/usr/bin/ypcat) # the world with NO_NIS\n' Comment.Preproc

'PLIST_SUB'   Name.Variable
'+='
        Operator
'\t'   Text.Whitespace
'NO_NIS'   Name.Variable
'='   Operator
'"@comment " Literal.String.Double
'\n'   Text.Whitespace

'.else\n'   Comment.Preproc

'PLIST_SUB'   Name.Variable
'+='   Operator
'\t'   Text.Whitespace
'NO_NIS'   Name.Variable
'='   Operator
'""'   Literal.String.Double
'\n'   Text.Whitespace

'.endif\n'   Comment.Preproc

'\n'   Text.Whitespace

'.if !defined(WITHOUT_IPV6)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='   Operator
' '   Text.Whitespace
'--enable-ipv6' Text

'\n' Text.Whitespace

'.else\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
' ' Text.Whitespace
'--disable-ipv6' Text
'\n' Text.Whitespace

'.endif\n' Comment.Preproc

'\n' Text.Whitespace

'.if defined(WITH_FPECTL)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
' ' Text.Whitespace
'--with-fpectl'
 Text
'\n' Text.Whitespace

'.endif\n' Comment.Preproc

'\n' Text.Whitespace

'.if ${OSVERSION} >= 700000\n' Comment.Preproc

'PLATFORMS' Name.Variable
'=' Operator
'plat-freebsd4' Text
' ' Text.Whitespace
'plat-freebsd5' Text
' ' Text.Whitespace
'plat-freebsd6' Text
'\n' Text.Whitespace

'.elif ${OSVERSION} >= 600000\n' Comment.Preproc

'PLATFORMS' Name.Variable
'=' Operator
'plat-freebsd4' Text
' ' Text.Whitespace
'plat-freebsd5' Text
' ' Text.Whitespace
'plat-freebsd7' Text
'\n' Text.Whitespace

```
'.else\n'     Comment.Preproc

'PLATFORMS'   Name.Variable
'='           Operator
'plat-freebsd4' Text
' '           Text.Whitespace
'plat-freebsd6' Text
' '           Text.Whitespace
'plat-freebsd7' Text
'\n'          Text.Whitespace

'.endif\n'    Comment.Preproc

'\n'          Text.Whitespace

'pre-patch'   Name.Function
':'           Operator
'\n'          Text.Whitespace

'\t'
          Text.Whitespace
'${'          Literal.String.Interpol
'MKDIR'       Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'${'          Literal.String.Interpol
'WRKSRC'      Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'${'          Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
'/Modules'    Text
'\n\t'        Text.Whitespace
'${'          Literal.String.Interpol
'SED'         Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'-e'          Text
' '           Text.Whitespace
"'1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'" Literal.String.Single
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t\t'        Text.Whitespace
'${'          Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
```

'}' Literal.String.Interpol
'/Tools/scripts/pydoc' Text
' ' Text.Whitespace
'>' Text
' '
    Text.Whitespace
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/pydoc2.5' Text
'\n\t' Text.Whitespace
'${' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'-e' Text
' ' Text.Whitespace
"'1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'" Literal.String.Single
' ' Text.Whitespace
'\\\n' Literal.String.Escape

'\t\t' Text.Whitespace
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Tools/scripts/idle' Text
' ' Text.Whitespace
'>' Text
' ' Text.Whitespace
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/idle2.5' Text
'\n\t' Text.Whitespace
'${' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
' '
    Text.Whitespace
'-e' Text
' ' Text.Whitespace
"'1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'" Literal.String.Single
' ' Text.Whitespace
'\\\n' Literal.String.Escape

'\t\t' Text.Whitespace
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable

'}' Literal.String.Interpol
'/Lib/smtpd.py' Text
' ' Text.Whitespace
'>' Text
' ' Text.Whitespace
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/smtpd2.5.py' Text
'\n\t' Text.Whitespace
'${' Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'-e' Text
' ' Text.Whitespace
'\\\n' Literal.String.Escape

'\t\t' Text.Whitespace
"'s,/usr/doc/python-docs-,${PREFIX}/share/doc/python,g'" Literal.String.Single
' ' Text.Whitespace
'\\\n' Literal.String.Escape

'\t\t'
  Text.Whitespace
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Lib/pydoc.py' Text
'\n\t' Text.Whitespace
'${' Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'-e' Text
' ' Text.Whitespace
'\\\n' Literal.String.Escape

'\t\t' Text.Whitespace
'\'s|^\\(*prefixes = .*\\)\\]$$|\\1, "${X11BASE}"]|g\'' Literal.String.Single
' ' Text.Whitespace
'\\\n' Literal.String.Escape

'\t\t' Text.Whitespace
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Lib/site.py' Text

'\n\t' Text.Whitespace
'${' Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'-e' Text
' ' Text.Whitespace
'\\\n' Literal.String.Escape

'\t\t'
 Text.Whitespace
"'s|^\t\\(..ASDLGEN.*\\)$$|\t${TRUE}|g'" Literal.String.Single
' ' Text.Whitespace
'\\\n' Literal.String.Escape

'\t\t' Text.Whitespace
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Makefile.pre.in' Text
'\n\n\t' Text.Whitespace
'${' Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'-e' Text
' ' Text.Whitespace
'\\\n' Literal.String.Escape

'\t\t' Text.Whitespace
"'s|*\\(..INSTALL_SCRIPT.*\\)python-config$$|#port \\1|'" Literal.String.Single
' ' Text.Whitespace
'\\\n' Literal.String.Escape

'\t\t' Text.Whitespace
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Makefile.pre.in' Text
'\n\n\t' Text.Whitespace
'${' Literal.String.Interpol
'SED' Name.Variable
'}'
  Literal.String.Interpol
' ' Text.Whitespace
'-e' Text
' ' Text.Whitespace
"'s|^#!.*|#!${PREFIX}/bin/${PYTHON_VERSION}|'" Literal.String.Single

```
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
'/Misc/python-config.in' Text
' '          Text.Whitespace
'>'          Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'WRKDIR'     Name.Variable
'}'          Literal.String.Interpol
'/'          Text
'${'         Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'          Literal.String.Interpol
'-config'    Text
'\n\t'       Text.Whitespace
'${'         Literal.String.Interpol
'SED'        Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-e'         Text
' '          Text.Whitespace
"'s|^#!.*|#!${PREFIX}/bin/${PYTHON_VERSION:S/thon/thon-shared/}|'"
 Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
'/Misc/python-config.in' Text
' '          Text.Whitespace
'>'          Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'WRKDIR'     Name.Variable
'}'          Literal.String.Interpol
'/'          Text
'${'         Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'          Punctuation
'S'          Name.Variable
'/thon/thon-shared/' Punctuation
```

'}' Literal.String.Interpol
'-config' Text
'\n\n' Text.Whitespace

'.if defined(WITH_FPECTL) && ${ARCH} == i386\n' Comment.Preproc

'\t' Text.Whitespace
'${' Literal.String.Interpol
'MKDIR' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'${' Literal.String.Interpol
'WRKSRC' Name.Variable
'}'
  Literal.String.Interpol
'/Modules' Text
'\n\t' Text.Whitespace
'${' Literal.String.Interpol
'ECHO' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'"fpectl fpectlmodule.c"' Literal.String.Double
' ' Text.Whitespace
'>>' Text
' ' Text.Whitespace
'${' Literal.String.Interpol
'WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Modules/Setup.dist' Text
'\n' Text.Whitespace

'.endif\n' Comment.Preproc

'\n' Text.Whitespace

'post-configure' Name.Function
':' Operator
'\n' Text.Whitespace

'\t' Text.Whitespace
'${' Literal.String.Interpol
'TAR' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'-C' Text
' ' Text.Whitespace
'${' Literal.String.Interpol
'WRKSRC' Name.Variable

```
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-cf'
        Text
' '          Text.Whitespace
'-'          Text
' '          Text.Whitespace
'.'          Text
' '          Text.Whitespace
'|'          Punctuation
' '          Text.Whitespace
'${'         Literal.String.Interpol
'TAR'          Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-C'         Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-xf'        Text
' '          Text.Whitespace
'-'          Text
'\n\t'       Text.Whitespace
'${'         Literal.String.Interpol
'LN'           Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-sf'        Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
'/Lib'         Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'WRKSRC'
     Name.Variable
'}'          Literal.String.Interpol
'/Lib'         Text
'\n\t'       Text.Whitespace
'${'         Literal.String.Interpol
'SED'          Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-e'         Text
' '          Text.Whitespace
```

```
"'s,^\\(LDLIBRARY=\\).*$$,\\1libpython$$(VERSION).so,'" Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'-e'         Text
' '          Text.Whitespace
"'s,^\\(BLDLIBRARY=\\).*$$,\\1-L. -lpython$$(VERSION),'" Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'-e'         Text
' '          Text.Whitespace
"'s,^\\(CFLAGSFORSHARED=\\).*$$,\\1$$(CCSHARED),'" Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'-e'         Text
' '          Text.Whitespace
"'s,^\\(Makefile Modules/config.c:.*\\)Makefile.pre,\\1,'"
 Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'-e'         Text
' '          Text.Whitespace
"'s,^\\(.(BUILDPYTHON)\\: .*\\).(LIBRARY),\\1,'" Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'-e'         Text
' '          Text.Whitespace
"'s,^\\(.(BUILDPYTHON):.*\\).(LIBRARY),\\1,'" Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'WRKSRC'     Name.Variable
'}'          Literal.String.Interpol
'/Makefile'  Text
' '          Text.Whitespace
'>'          Text
' '          Text.Whitespace
```

```
'${'          Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
'/Makefile'   Text
'\n\n'        Text.Whitespace

'pre-build'   Name.Function
':'           Operator
'\n'
        Text.Whitespace

'\t'          Text.Whitespace
'cd'          Name.Builtin
' '           Text.Whitespace
'${'          Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
';'           Punctuation
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t'          Text.Whitespace
'${'          Literal.String.Interpol
'SETENV'      Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'${'          Literal.String.Interpol
'MAKE_ENV'    Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'${'          Literal.String.Interpol
'MAKE'        Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'lib'         Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'           Literal.String.Interpol
'.so'         Text
' '           Text.Whitespace
'python'      Text
';'           Punctuation
' '           Text.Whitespace
'\\\n'
       Literal.String.Escape

'\t'          Text.Whitespace
'${'          Literal.String.Interpol
```

```
'LN'          Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'-f'          Text
' '           Text.Whitespace
'lib'         Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'           Literal.String.Interpol
'.so'         Text
' '           Text.Whitespace
'lib'         Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'           Literal.String.Interpol
'.so.1'       Text
';'           Punctuation
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t'          Text.Whitespace
'${'          Literal.String.Interpol
'LN'          Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'-f'          Text
' '           Text.Whitespace
'python'      Text
' '           Text.Whitespace
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'
  Punctuation
'S'           Name.Variable
'/thon/thon-shared/' Punctuation
'}'           Literal.String.Interpol
'\n\n'        Text.Whitespace

'pre-su-install' Name.Function
':'           Operator
'\n'          Text.Whitespace

'.for platform in ${PLATFORMS}\n' Comment.Preproc

'\t'          Text.Whitespace
'${'          Literal.String.Interpol
'MKDIR'       Name.Variable
'}'           Literal.String.Interpol
```

```
' '          Text.Whitespace
'${'         Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'          Literal.String.Interpol
'/'          Text
'${'         Literal.String.Interpol
'platform'   Name.Variable
'}'          Literal.String.Interpol
'\n'         Text.Whitespace

'.for file in IN.py regen\n' Comment.Preproc

'\t'         Text.Whitespace
'${'         Literal.String.Interpol
'INSTALL_DATA' Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'${'         Literal.String.Interpol
'WRKSRC'     Name.Variable
'}'
 Literal.String.Interpol
'/Lib/'      Text
'${'         Literal.String.Interpol
'platform'   Name.Variable
'}'          Literal.String.Interpol
'/'          Text
'${'         Literal.String.Interpol
'file'       Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'          Literal.String.Interpol
'/'          Text
'${'         Literal.String.Interpol
'platform'   Name.Variable
'}'          Literal.String.Interpol
'/'          Text
'\n'         Text.Whitespace

'.endfor\n'  Comment.Preproc

'.endfor\n'  Comment.Preproc

'\n'         Text.Whitespace
```

'pre-install' Name.Function
':' Operator
'\n' Text.Whitespace

'\t' Text.Whitespace
'${' Literal.String.Interpol
'CAT' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'${'
Literal.String.Interpol
'PLIST_TEMPLATE' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'|' Punctuation
' ' Text.Whitespace
'${' Literal.String.Interpol
'AWK' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'\'{ print $$0; } \\\n\t/LIBDIR.*\\.py$$/ && !/\\/bad/ { print $$0 "o"; print $$0 "c"; }\" Literal.String.Single
'\t' Text.Whitespace
'>' Text
' ' Text.Whitespace
'${' Literal.String.Interpol
'PLIST' Name.Variable
'}' Literal.String.Interpol
'\n\n' Text.Whitespace

"\t@# if openssl 0.9.8 is detected, _sha{256,512} module won't be installed\n" Comment

'\t' Text.Whitespace
'(' Operator
'[' Operator
' ' Text.Whitespace
'-f' Text
' ' Text.Whitespace
'${' Literal.String.Interpol
'WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/.without_own_sha'
Text
' ' Text.Whitespace
']' Operator
' ' Text.Whitespace
'&&' Operator
' ' Text.Whitespace

```
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'GREP'       Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-v'         Text
' '          Text.Whitespace
'"lib-dynload/_sha"' Literal.String.Single
' '          Text.Whitespace
'${'         Literal.String.Interpol
'PLIST'      Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'>'          Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'PLIST'      Name.Variable
'}'          Literal.String.Interpol
'.tmp'       Text
' '          Text.Whitespace
'&&'         Operator
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'CAT'        Name.Variable
'}'
         Literal.String.Interpol
' '          Text.Whitespace
'${'         Literal.String.Interpol
'PLIST'      Name.Variable
'}'          Literal.String.Interpol
'.tmp'       Text
' '          Text.Whitespace
'>'          Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'PLIST'      Name.Variable
'}'          Literal.String.Interpol
')'          Operator
' '          Text.Whitespace
'||'         Operator
' '          Text.Whitespace
'${'         Literal.String.Interpol
'TRUE'       Name.Variable
```

'}' Literal.String.Interpol
'\n\n' Text.Whitespace

'post-install' Name.Function
':' Operator
'\n' Text.Whitespace

'\t@# install config providers\n' Comment

'\t' Text.Whitespace
'${' Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/'
  Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'-config' Text
' ' Text.Whitespace
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/bin' Text
'\n\t' Text.Whitespace
'${' Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':' Punctuation
'S' Name.Variable
'/thon/thon-shared/' Punctuation
'}' Literal.String.Interpol
'-config' Text
' ' Text.Whitespace
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol

'/bin' Text
'\n\n' Text.Whitespace

'\t@#
 shared version of executable and library\n' Comment

'\t' Text.Whitespace
'${' Literal.String.Interpol
'INSTALL_PROGRAM' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'${' Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/lib' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'.so.1' Text
' ' Text.Whitespace
'\\\n' Literal.String.Escape

'\t\t' Text.Whitespace
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/lib' Text
'\n\t' Text.Whitespace
'cd' Name.Builtin
' ' Text.Whitespace
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/lib' Text
';' Punctuation
' ' Text.Whitespace
'${' Literal.String.Interpol
'LN'
  Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'-sf' Text
' ' Text.Whitespace
'lib' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'.so.1' Text

```
' '         Text.Whitespace
'\\\n'      Literal.String.Escape

'\t\t'      Text.Whitespace
'lib'       Text
'${'        Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'         Literal.String.Interpol
'.so'       Text
'\n\t'      Text.Whitespace
'${'        Literal.String.Interpol
'LN'        Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'-sf'       Text
' '         Text.Whitespace
'${'        Literal.String.Interpol
'PREFIX'    Name.Variable
'}'         Literal.String.Interpol
'/lib/lib'  Text
'${'        Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'         Literal.String.Interpol
'.so'       Text
' '
    Text.Whitespace
'${'        Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'         Literal.String.Interpol
'/config'   Text
'\n\t'      Text.Whitespace
'${'        Literal.String.Interpol
'INSTALL_PROGRAM' Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'\\\n'      Literal.String.Escape

'\t\t'      Text.Whitespace
'${'        Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'         Literal.String.Interpol
'/'         Text
'${'        Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'         Punctuation
'S'         Name.Variable
'/thon/thon-shared/' Punctuation
'}'         Literal.String.Interpol
```

```
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'PREFIX'     Name.Variable
'}'          Literal.String.Interpol
'/bin'       Text
'\n\n'       Text.Whitespace

'\t@# additional files installing by ports\n'
 Comment

'\t'         Text.Whitespace
'${'         Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'${'         Literal.String.Interpol
'WRKDIR'     Name.Variable
'}'          Literal.String.Interpol
'/pydoc2.5'   Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'WRKDIR'     Name.Variable
'}'          Literal.String.Interpol
'/idle2.5'    Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'WRKDIR'     Name.Variable
'}'          Literal.String.Interpol
'/smtpd2.5.py' Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'PREFIX'     Name.Variable
'}'          Literal.String.Interpol
'/bin'       Text
'\n\t'       Text.Whitespace
'@'          Text
'${'         Literal.String.Interpol
'MKDIR'      Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'${'
```

```
        Literal.String.Interpol
'MANPREFIX'   Name.Variable
'}'         Literal.String.Interpol
'/man/man1'   Text
'\n\t'       Text.Whitespace
'${'         Literal.String.Interpol
'INSTALL_MAN' Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'${'         Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'         Literal.String.Interpol
'/Misc/python.man' Text
' '         Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'MANPREFIX'   Name.Variable
'}'         Literal.String.Interpol
'/man/man1/'  Text
'${'         Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'         Literal.String.Interpol
'.1'         Text
'\n\n'       Text.Whitespace

'.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\n' Comment.Preproc

'\t'         Text.Whitespace
'for'        Keyword
' '         Text.Whitespace
'f'         Text
' '         Text.Whitespace
'in'
        Keyword
' '         Text.Whitespace
'${'         Literal.String.Interpol
'BIN_SCRIPTS' Name.Variable
'}'         Literal.String.Interpol
';'         Punctuation
' '         Text.Whitespace
'do'         Keyword
' '         Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'TARGET'     Name.Variable
```

```
'='          Operator
'`'          Literal.String.Backtick
'${'         Literal.String.Interpol
'ECHO_CMD'   Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'$$'         Name.Variable
'f'          Text
' '          Text.Whitespace
'|'          Punctuation
' '          Text.Whitespace
'${'         Literal.String.Interpol
'SED'        Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-E'         Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'BINLINKS_SUB' Name.Variable
'}'          Literal.String.Interpol
'`'          Literal.String.Backtick
';'
          Punctuation
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'cd'         Name.Builtin
' '          Text.Whitespace
'${'         Literal.String.Interpol
'PREFIX'     Name.Variable
'}'          Literal.String.Interpol
'/bin'       Text
' '          Text.Whitespace
'&&'         Operator
' '          Text.Whitespace
'${'         Literal.String.Interpol
'LN'         Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-f'         Text
' '          Text.Whitespace
'$$'         Name.Variable
'TARGET'     Text
' '          Text.Whitespace
'$$'         Name.Variable
'f'          Text
';'          Punctuation
```

```
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t'         Text.Whitespace
'done'       Keyword
'\n'         Text.Whitespace

'.endif\n'   Comment.Preproc

'\n'         Text.Whitespace

'.if !defined(NOPORTDOCS)\n' Comment.Preproc

'\t'
        Text.Whitespace
'@'          Text
'${'         Literal.String.Interpol
'MKDIR'      Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'${'         Literal.String.Interpol
'TOOLSDIR'   Name.Variable
'}'          Literal.String.Interpol
'\n\t'       Text.Whitespace
'@cd'        Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
';'          Punctuation
' '          Text.Whitespace
'${'         Literal.String.Interpol
'TAR'        Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-cf'        Text
' '          Text.Whitespace
'-'          Text
' '          Text.Whitespace
'Tools'      Text
' '          Text.Whitespace
'|'          Punctuation
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'('          Operator
'cd'         Name.Builtin
```

```
' '         Text.Whitespace
'${'
        Literal.String.Interpol
'TOOLSDIR'    Name.Variable
'}'         Literal.String.Interpol
';'         Punctuation
' '         Text.Whitespace
'${'        Literal.String.Interpol
'TAR'       Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'-xf'       Text
' '         Text.Whitespace
'-'         Text
')'         Operator
'\n\t'      Text.Whitespace
'@'         Text
'${'        Literal.String.Interpol
'MKDIR'     Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'${'        Literal.String.Interpol
'DEMODIR'   Name.Variable
'}'         Literal.String.Interpol
'\n\t'      Text.Whitespace
'@cd'       Text
' '         Text.Whitespace
'${'        Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'         Literal.String.Interpol
'/Demo'     Text
';'         Punctuation
' '         Text.Whitespace
'${'        Literal.String.Interpol
'TAR'       Name.Variable
'}'
        Literal.String.Interpol
' '         Text.Whitespace
'-cf'       Text
' '         Text.Whitespace
'-'         Text
' '         Text.Whitespace
'*'         Text
' '         Text.Whitespace
'|'         Punctuation
' '         Text.Whitespace
'\\\n'      Literal.String.Escape
```

'\t\t' Text.Whitespace
'(' Operator
'cd' Name.Builtin
' ' Text.Whitespace
'${' Literal.String.Interpol
'DEMODIR' Name.Variable
'}' Literal.String.Interpol
';' Punctuation
' ' Text.Whitespace
'${' Literal.String.Interpol
'TAR' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'-xf' Text
' ' Text.Whitespace
'-' Text
')' Operator
'\n' Text.Whitespace

'.endif\n' Comment.Preproc

'\n\t' Text.Whitespace
'@' Text
'${' Literal.String.Interpol
'CAT' Name.Variable
'}'
  Literal.String.Interpol
' ' Text.Whitespace
'${' Literal.String.Interpol
'PKGMESSAGE' Name.Variable
'}' Literal.String.Interpol
'\n\n' Text.Whitespace

'.include <bsd.port.post.mk>\n' Comment.Preproc
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immerrr again
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Aymeric Augustin
Lee Ball
Ben Bariteau
Ned Batchelder
Wouter Bolsterlee
Brett Cannon
Jason R. Coombs
Julien Danjou
Ben Darnell
Ben Davis
Jon Dufresne
Tim Graham
Thomas Grainger
Max Grender-Jones
Pierre Grimaud
Joshua Harlow
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1.47 jaraco-functools 4.0.1

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1.55 python-multipart 0.0.19

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1.56 aiosignal 1.4.0

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1.60 jaraco.collections 5.1.0

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1.61 regex 2024.11.6

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1.62 prompt-toolkit 3.0.52

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1.63 ncclient 0.6.15

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1.64 wheel 0.45.1

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1.65 mdurl 0.1.2

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1.66 tacacs-plus 2.6

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1.67 python-lxml 6.0.0

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Both were inspired by Twisteds [FancyEqMixin](https://docs.twisted.org/en/stable/api/twisted.python.util.FancyEqMixin.html)
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1.72 typing-extensions 4.15.0

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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 https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
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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
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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

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

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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.79 sniffio 1.3.1

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1.80 asn1 2.7.1

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1.82 platformdirs 4.2.2

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1.83 pytest-cov 4.1.0

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1.84 frozenlist 1.5.0

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1.85 pysnmpcrypto 0.0.4

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The `pysnmpcrypto` package is an optional extension to SNMP library for
Python [pysnmp](http://snmplabs.com/pysnmp/) 5.0+. The `pysnmpcrypto` library
provides stronger authentication and encryption features to the SNMP library
by
way of invoking stronger crypto algorithms.

The `pysnmpcrypto` library runs on Python 2.4 through 3.7 and has a dependency
on either [PyCryptodomex](https://github.com/Legrandin/pycryptodome) (for Python
versions 2.4-2.6 and 3.2-3.3) or
[Cryptography](https://github.com/pyca/cryptography) (for Python versions
2.7 and 3.4+).

The `pysnmpcrypto` package is distributed under terms and conditions of the
2-clause [BSD license](http://snmplabs.com/pysnmpcrypto/license.html).

Download & Install

The `pysnmpcrypto` package is freely available for download from
[PyPI](https://pypi.org/project/pysnmpcrypto)
and [GitHub](https://github.com/etingof/pysnmpcrypto.git).

Just run:

```bash
$ pip install pysnmp pysnmpcrypto
```

to download and install both `pysnmp` and `pysnmpcrypto`.

Documentation

The `pysnmpcrypto` library does not expose any user-intended API. Documentation
and usage examples on the `pysnmp` library use can be found at the
[pysnmp project
 site](http://snmplabs.com/pysnmp/).

If something does not work as expected with `pysnmpcrypto`, please
[open an issue](https://github.com/etingof/pysnmpcrypto/issues) at GitHub.

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* Showing empathy towards other community members

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* The use of sexualized
language or imagery and unwelcome sexual attention or
advances
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==========
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
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Please
 note that the quality and stability of those packages may be different
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1.92 packaging 23.2

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1.93 pysnmp 6.1.4

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SNMP Library for Python 6.1
==========================

.. toctree::
  :maxdepth: 1

  Return to PySNMP Homepage <https://pysnmp.com>

PySNMP is a cross-platform, pure-`Python`_ `SNMP`_
engine implementation. It features fully-functional SNMP engine capable
to act in Agent/Manager/Proxy roles, talking SNMP v1/v2c/v3 protocol
versions over IPv4/IPv6 and other network transports.

Despite its name, SNMP is not really a simple protocol. For instance its
third version introduces complex and open-ended security framework,
multilingual capabilities, remote configuration and other features.
PySNMP implementation closely follows intricate system details and features
bringing most possible power and flexibility to its users.

Current PySNMP stable version is 6.1. It runs with Python 3.8+
and is recommended for new applications as well as for migration from
older, now obsolete, PySNMP releases.
 All site documentation and
examples are written for the 6.0 and later versions in mind.
Older materials have been removed.

Besides the libraries, a set of pure-Python `command line tools`_
are shipped along with the system. Those tools mimic the interface

and behavior of popular Net-SNMP snmpget/snmpset/snmpwalk utilities.
They may be useful in a cross-platform situations as well as a testing
and prototyping instrument for pysnmp users.

PySNMP software is free and open-source. Source code is hosted in
the `PySNMP Github repository`_.
The library is being distributed under 2-clause BSD-style license.

PySNMP library development has been initially sponsored
by a `PSF`_ grant.

Quick Start

You already know something about SNMP and have no courage to dive into
this implementation? Try out quick start page!

.. toctree::
  :maxdepth: 1

  /quick-start

Documentation

You can find conceptual and API documentation in the following section.

.. toctree::

  :maxdepth: 2

  /docs/index

Samples

We have a collection of sample scripts to help you get started with PySNMP.

.. toctree::
  :maxdepth: 2

  /examples/index

Troubleshooting

If you are having trouble with PySNMP, please check the following section.

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  /troubleshooting
  /upgrade

Downloads

Best way is usually to install PySNMP using `PySNMP PyPI package`_.

.. code-block:: bash

  $ pip install pysnmp

If that does not work for you for some reason, you might need to read the
following page.

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  /download

We fanatically document all fixes, changes and new features in changelog.

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  /changelog

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FAQ

We have a collection of frequently asked questions.

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/faq

Contact

In case of questions
or troubles using PySNMP, please open up a
new `GitHub issue`_ or ask on `Stack Overflow`_.

For other inquiries, please contact `LeXtudio Inc.`_.

More information about support options can be found in the following
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.. toctree::
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Support Options <https://www.pysnmp.com/support>

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.. include:: /includes/_links.rst

Further development

Although PySNMP is already a mature software and it is being used at many
places, the ultimate goal of the project is to implement most of the useful
features that SNMP standards can offer. What follows is a list of most

prominent missing features that PySNMP developers are planning to put their hands on in the future.

PySNMP library
++++++++++++++

#. Built-in MIB parser. PySNMP uses a data model of its own to work with information contained in MIB files. To convert ASN.1-based MIB texts into Python modules, an off-line, third-party tool is employed. As it turns out, this approach has two major drawback: one is that PySNMP users may need to pre-process MIB texts to use them with their PySNMP-based applications. Another is that LibSMI's Python driver seems to miss some information carried by MIBs. Thus the solution would

be to write another MIB parser and code generator which would produce PySNMP compliant Python code right from MIB text files all by itself.

Done: see `PySMI`_` project in conjunction with the latest PySNMP codebase.

#. Reverse MIB index. The variable-bindings received by the system whilst in Manager role could be post-processed using the information kept in MIB files to include human-friendly OIDs names, tables indices and values representation. However, there is currently no provisioning in the PySNMP system for locating and loading up MIB files containing additional information on arbitrary OIDs. So the idea is to maintain an OID-to-MIB index to let PySNMP load relevant MIB automatically on demand.

#. Stream sockets support. Currently, PySNMP transport subsystem only supports datagram-type network sockets. That covers UDP-over-IPv4 and UDP-over-IPv6. However, SNMP engine can potentially run over stream-oriented protocols what would let it support
TCP-over-IPv4,
TCP-over-IPv6 and SSL/TSL transports. Neither of these is currently implemented with PySNMP.

#. AgentX implementation. We anticipate many uses of this. For instance, having AgentX protocol support in pure-Python would let us write AgentX modules in pure-Python and attach them to high-performance Net-SNMP Agent. Or we could build and maintain a fully-featured, stand-alone PySNMP-based Agent so that users would write their own AgentX extensions what would comprise a complete SNMP Agent solution at lesser effort.

#. A DBMS-based SMI. Currently implemented SMI takes shape of live Python objects that let user hook up his own handler on any existing Managed Object Instance. That's flexible and working approach in many cases, however sometimes, for instance when Management Instrumentation is inherently DBMS-based, it may be more efficient to move the entire

SMI/MIB subsystem into a database. PySNMP engine would talk to it through
its simple and well defined SMI API.

Stand-alone PySNMP-based tools
++++++++++++++++++++++++++++++

#. SNMP Proxy Forwarder. That would be a stand-alone, application-level proxy service supporting all SNMP versions, multiple network transports, Command and Notification SNMP message types. Its anticipated features include extensive configuration facilities, fine-grained access control and logging.

   Done: see `SNMP Proxy Forwarder`_.

#. SNMP Trap Receiver. We see this application as a simple yet flexible SNMP TRAP collector. It would listen on network sockets of different types receiving SNMP TRAP/INFORM notifications over any SNMP version and putting all the details into a database and possibly triggering external events.

#. Database backend for SNMP Simulator. We have already built a tool for simulating SNMP Agents based on a snapshot of their Management Instrumentation state. Current implementation uses a plain-text file for keeping and possibly
managing the snapshot. Many users of the Simulator software requested a value variation feature to be supported so that simulated Agents would look live, not static. We consider this variation and also dependencies features would be best implemented as a relational database application. So we are planning to put some more efforts into the Simulator project as time permits.

   Done: since `snmpsim`_ 0.2.4.

If you need some particular feature - please,
open a feature request via a `GitHub issue`_ . Once we
see a greater demand in particular area, we would re-arrange our
development resources to meet it sooner.

You could greater speed up the development of particular feature by
sponsoring it. Please contact `LeXtudio Inc.`_ to discuss details.

Contributions to the PySNMP source code is greatly appreciated as well.
We require contributed code to run with Python 3.8 through the latest
Python version (which is 3.12 at the time of this writing). Contributed
code will
be redistributed under the terms of the same license as PySNMP is.

Related Resources

- `Support Options`_
- :doc:`/quick-start`
- :doc:`/troubleshooting`
- :doc:`/faq`

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Metadata-Version: 2.1
Name: pysnmp
Version: 6.1.4
Summary: A Python library for SNMP
Home-page: https://github.com/lextudio/pysnmp
License: BSD-2-Clause
Author: Ilya Etingof

Author-email: etingof@gmail.com
Requires-Python: >=3.8,<4.0
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Telecommunications Industry
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Classifier: Programming Language :: Python :: 3.8
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Classifier: Topic :: Communications
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Requires-Dist: pyasn1 (>=0.4.8,!=0.5.0)
Requires-Dist: pysmi (>=1.3.0,<2.0.0)
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Requires-Dist: pytest-cov (>=4.0.0,<5.0.0)
Project-URL: Repository, https://github.com/lextudio/pysnmp
Description-Content-Type: text/markdown

SNMP Library for Python

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This
is a pure-Python, open source and free implementation of v1/v2c/v3
SNMP engine distributed under 2-clause [BSD license](https://www.pysnmp.com/pysnmp/license.html).

The PySNMP project was initially sponsored by a [PSF](http://www.python.org/psf/) grant.
Thank you!

This repo is derived from Ilya Etingof's project [etingof/pysnmp](https://github.com/etingof/pysnmp), but [LeXtudio Inc. has taken over the entire PySNMP ecosystem](https://github.com/etingof/pysnmp/issues/429), including the

library, documentation, and the website.

Ilya sadly passed away on 10-Aug-2022. Announcement [here](https://lists.openstack.org/pipermail/openstack-discuss/2022-August/030062.html). His work is still of great use to the Python community and he will be missed.

Features
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* Complete SNMPv1/v2c and SNMPv3 support
* SMI framework for resolving MIB information and implementing SMI
 Managed Objects
* Complete SNMP entity implementation
*
 USM Extended Security Options support (3DES, 192/256-bit AES encryption)
* Extensible network transports framework (UDP/IPv4, UDP/IPv6)
* Asynchronous socket-based IO API support
* [Asyncio](https://docs.python.org/3/library/asyncio.html) integration
* [PySMI](https://www.pysnmp.com/pysmi/) integration for dynamic MIB compilation
* Built-in instrumentation exposing protocol engine operations
* Python eggs and py2exe friendly
* 100% Python, works with Python 3.8+
* MT-safe (if SnmpEngine is thread-local)

Features, specific to SNMPv3 model include:

* USM authentication (MD5/SHA-1/SHA-2) and privacy (DES/AES) protocols (RFC3414, RFC7860)
* View-based access control to use with any SNMP model (RFC3415)
* Built-in SNMP proxy PDU converter for building multi-lingual
 SNMP entities (RFC2576)
* Remote SNMP engine configuration
* Optional SNMP engine discovery
* Shipped with standard SNMP applications (RFC3413)

Download & Install

The PySNMP software is freely available
 for download from [PyPI](https://pypi.python.org/pypi/pysnmp)
and [GitHub](https://github.com/lextudio/pysnmp.git).

Just run:

```bash
$ pip install pysnmp
```

To download and install PySNMP along with its dependencies:

<!-- Need to find an alternate location for the links to pysnmp.com -->
* [PyASN1](https://pyasn1.readthedocs.io)
* [PySMI](https://www.pysnmp.com/pysmi/) (required for MIB services only)
* Optional [pysnmpcrypto](https://github.com/etingof/pysnmpcrypto) package
 whenever strong SNMPv3 encryption is desired

Besides the library, command-line [SNMP utilities](https://github.com/lextudio/snmpclitools)
written in pure-Python could be installed via:

```bash
$ pip install snmpclitools
```

and used in the very similar manner as conventional Net-SNMP tools:

```bash
$ snmpget.py -v3 -l authPriv -u usr-md5-des -A authkey1 -X privkey1 demo.pysnmp.com sysDescr.0
SNMPv2-MIB::sysDescr.0 = STRING: Linux zeus 4.8.6.5-smp #2 SMP Sun Nov 13 14:58:11 CDT 2016 i686
```

Examples

PySNMP
 is designed in a layered fashion. Top-level and easiest to use API is known as
hlapi. Here's a quick example on how to SNMP GET:

```python
from pysnmp.hlapi import *
from pysnmp.smi.rfc1902 import ObjectIdentity, ObjectType

with Slim(1) as slim:
  errorIndication, errorStatus, errorIndex, varBinds = slim.get(
     'public',
     'demo.pysnmp.com',
     161,
     ObjectType(ObjectIdentity("SNMPv2-MIB", "sysDescr", 0)),
  )

  if errorIndication:
     print(errorIndication)
  elif errorStatus:
     print(
        "{} at {}".format(
           errorStatus.prettyPrint(),
           errorIndex and varBinds[int(errorIndex) - 1][0] or "?",
        )
     )
```

```
  else:
      for varBind in varBinds:
          print(" = ".join([x.prettyPrint() for x in varBind]))
```

This is how to send SNMP TRAP:

```python
from pysnmp.hlapi import *


snmpEngine = SnmpEngine()
errorIndication, errorStatus, errorIndex, varBinds = sendNotification(
   snmpEngine,
  CommunityData('public', mpModel=0),
  UdpTransportTarget(('demo.pysnmp.com', 162)),
  ContextData(),
  "trap",
  NotificationType(ObjectIdentity("1.3.6.1.6.3.1.1.5.2")).addVarBinds(
      ("1.3.6.1.6.3.1.1.4.3.0", "1.3.6.1.4.1.20408.4.1.1.2"),
      ("1.3.6.1.2.1.1.1.0", OctetString("my system")),
  ),
)

if errorIndication:
  print(errorIndication)

snmpEngine.closeDispatcher()
```

> We maintain publicly available SNMP Agent and TRAP sink at
> [demo.pysnmp.com](https://www.pysnmp.com/snmp-simulation-service). You are
> welcome to use it while experimenting with whatever SNMP software you deal with.

```bash
$ python3 examples/hlapi/asyncio/manager/cmdgen/usm-sha-aes128.py
SNMPv2-MIB::sysDescr.0 = SunOS zeus.pysnmp.com 4.1.3_U1 1 sun4m
$
$ python3 examples/hlapi/asyncio/agent/ntforg/v3-inform.py
SNMPv2-MIB::sysUpTime.0 = 0
SNMPv2-MIB::snmpTrapOID.0 = SNMPv2-MIB::warmStart
SNMPv2-MIB::sysName.0 = system name
```

Other than that, PySNMP
 is capable to automatically fetch and use required MIBs from HTTP sites
or local directories. You could configure any MIB source available to you (including
[this one](https://mibs.pysnmp.com)) for that purpose.

For more sample scripts please refer to [examples
section](https://www.pysnmp.com/pysnmp/examples/index.html#high-level-snmp)
at PySNMP web site.

Documentation

Library documentation and examples can be found at the [PySNMP docs site](https://www.pysnmp.com/pysnmp/).

If something does not work as expected, please
[open an issue](https://github.com/lextudio/pysnmp/issues) at GitHub or
post your question [on Stack Overflow](http://stackoverflow.com/questions/ask).

Bug reports and PRs are appreciated! ;-)

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* /pysnmp-6-1-4-tar-gz/pysnmp-6.1.4/PKG-INFO

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1.96 python-setuptools 80.8.0

1.96.1 Available under license :

The code contained in this directory was automatically generated using the
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python -m validate_pyproject.pre_compile --output-dir=setuptools/config/_validate_pyproject --enable-plugins setuptools distutils --very-verbose -t setuptools=setuptools/config/setuptools.schema.json -t distutils=setuptools/config/distutils.schema.json

Please avoid changing it manually.

You can report issues or suggest changes directly to `validate-pyproject`
(or to the relevant plugin repository)

- https://github.com/abravalheri/validate-pyproject/issues

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- `__init__.py`
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`fastjsonschema`
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`validate-pyproject`

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

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

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* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/native/test_decoder.py
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* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/native/__main__.py
* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/compat/test_binary.py
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ASN.1 library for Python

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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 3.7
* 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

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.org/project/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](https://stackoverflow.com/questions/ask)
or try browsing pyasn1
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Telecommunications Industry
Classifier: License :: OSI Approved :: BSD License
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Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.4
Classifier:
 Programming Language :: Python :: 2.5
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ASN.1 library for Python
========================

.. toctree::
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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.org/project/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 if 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::
  :maxdepth: 2

  /download

Changes

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

..
 toctree::
  :maxdepth: 1

  /changelog

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.. toctree::
  :maxdepth: 2

/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 <ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>`_ by Burton S. Kaliski

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

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1.100 pycparser 2.22

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pycparser -- A C parser in Python

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1.101 python-certifi 2024.8.30

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This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
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 $

1.102 autocommand 2.2.2

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1.103 jaraco.text 3.12.1

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1.104 pydantic_core 2.33.2

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1.105 tomli 2.0.1

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1.106 ply 3.11

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1.107 yarl 1.18.0

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1.108 colorama 0.4.6

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1.109 hpack 4.1.0

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1.110 cffi 2.0.0

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1.111 paramiko 3.5.0

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1.112 fastapi 0.120.2

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```
name: FastAPI People Contributors

on:
 schedule:
   - cron: "0 3 1 * *"
 workflow_dispatch:
   inputs:
     debug_enabled:
       description: "Run the build with tmate debugging enabled (https://github.com/marketplace/actions/debugging-with-tmate)"
       required: false
       default: "false"

env:
 UV_SYSTEM_PYTHON: 1

jobs:
 job:
   if: github.repository_owner == 'fastapi'
   runs-on: ubuntu-latest
   permissions:
     contents: write
   steps:
     - name: Dump GitHub context
       env:
         GITHUB_CONTEXT: ${{ toJson(github) }}
       run: echo "$GITHUB_CONTEXT"
     - uses: actions/checkout@v5
     - name: Set up Python
       uses: actions/setup-python@v6
       with:
         python-version: "3.11"
     - name: Setup uv
       uses: astral-sh/setup-uv@v7
       with:
         version: "0.4.15"
         enable-cache: true
         cache-dependency-glob: |
           requirements**.txt
           pyproject.toml
     - name: Install Dependencies
         run: uv pip install -r requirements-github-actions.txt
     # Allow debugging with tmate
```

```
      - name: Setup tmate session
        uses: mxschmitt/action-tmate@v3
        if: ${{ github.event_name == 'workflow_dispatch' && github.event.inputs.debug_enabled == 'true' }}
        with:
          limit-access-to-actor: true
        env:
          GITHUB_TOKEN: ${{ secrets.FASTAPI_PR_TOKEN }}
      - name: FastAPI People Contributors
        run: python ./scripts/contributors.py
        env:
          GITHUB_TOKEN: ${{ secrets.FASTAPI_PR_TOKEN }}
tiangolo:
 login: tiangolo
 count: 782
 avatarUrl:
https://avatars.githubusercontent.com/u/1326112?u=cb5d06e73a9e1998141b1641aa88e443c6717651&v=4
 url: https://github.com/tiangolo
dependabot:
 login: dependabot
 count: 117
 avatarUrl: https://avatars.githubusercontent.com/in/29110?v=4
 url: https://github.com/apps/dependabot
alejsdev:
 login: alejsdev
 count: 52
 avatarUrl:
https://avatars.githubusercontent.com/u/90076947?u=447d12a1b347f466b35378bee4c7104cc9b2c571&v=4
 url: https://github.com/alejsdev
pre-commit-ci:
 login: pre-commit-ci
 count: 45
 avatarUrl: https://avatars.githubusercontent.com/in/68672?v=4
 url: https://github.com/apps/pre-commit-ci
github-actions:
 login: github-actions
 count: 26
 avatarUrl: https://avatars.githubusercontent.com/in/15368?v=4
 url: https://github.com/apps/github-actions
Kludex:
 login: Kludex
 count: 24
 avatarUrl:
https://avatars.githubusercontent.com/u/7353520?u=df8a3f06ba8f55ae1967a3e2d5ed882903a4e330&v=4
 url: https://github.com/Kludex
dmontagu:
  login: dmontagu
 count: 17
 avatarUrl:
```

https://avatars.githubusercontent.com/u/35119617?u=540f30c937a6450812628b9592a1dfe91bbe148e&v=4
 url: https://github.com/dmontagu
euri10:
 login: euri10
 count: 13
 avatarUrl:
https://avatars.githubusercontent.com/u/1104190?u=321a2e953e6645a7d09b732786c7a8061e0f8a8b&v=4
 url: https://github.com/euri10
nilslindemann:
 login: nilslindemann
 count: 13
 avatarUrl:
https://avatars.githubusercontent.com/u/6892179?u=1dca6a22195d6cd1ab20737c0e19a4c55d639472&v=4
 url: https://github.com/nilslindemann
kantandane:
 login: kantandane
 count: 13
 avatarUrl:
https://avatars.githubusercontent.com/u/3978368?u=cccc199291f991a73b1ebba5abc735a948e0bd16&v=4
 url: https://github.com/kantandane
svlandeg:
 login: svlandeg
 count: 11
 avatarUrl:
https://avatars.githubusercontent.com/u/8796347?u=556c97650c27021911b0b9447ec55e75987b0e8a&v=4
 url: https://github.com/svlandeg
zhaohan-dong:
 login: zhaohan-dong
 count: 11
 avatarUrl:
 https://avatars.githubusercontent.com/u/65422392?u=8260f8781f50248410ebfa4c9bf70e143fe5c9f2&v=4
 url: https://github.com/zhaohan-dong
YuriiMotov:
 login: YuriiMotov
 count: 10
 avatarUrl:
https://avatars.githubusercontent.com/u/109919500?u=b9b13d598dddfab529a52d264df80a900bfe7060&v=4
 url: https://github.com/YuriiMotov
mariacamilagl:
 login: mariacamilagl
 count: 9
 avatarUrl:
https://avatars.githubusercontent.com/u/11489395?u=4adb6986bf3debfc2b8216ae701f2bd47d73da7d&v=4
 url: https://github.com/mariacamilagl
handabaldeep:
 login: handabaldeep
 count: 9
 avatarUrl:

https://avatars.githubusercontent.com/u/12239103?u=6c39ef15d14c6d5211f5dd775cc4842f8d7f2f3a&v=4
 url: https://github.com/handabaldeep
vishnuvskvkl:
 login: vishnuvskvkl
 count: 8
 avatarUrl:
https://avatars.githubusercontent.com/u/84698110?u=8af5de0520dd4fa195f53c2850a26f57c0f6bc64&v=4
 url: https://github.com/vishnuvskvkl
alissadb:
 login: alissadb
 count: 6
 avatarUrl:
https://avatars.githubusercontent.com/u/96190409?u=be42d85938c241be781505a5a872575be28b2906&v=4
  url: https://github.com/alissadb
alv2017:
 login: alv2017
 count: 6
 avatarUrl: https://avatars.githubusercontent.com/u/31544722?v=4
 url: https://github.com/alv2017
wshayes:
 login: wshayes
 count: 5
 avatarUrl: https://avatars.githubusercontent.com/u/365303?u=07ca03c5ee811eb0920e633cc3c3db73dbec1aa5&v=4
 url: https://github.com/wshayes
samuelcolvin:
 login: samuelcolvin
 count: 5
 avatarUrl:
https://avatars.githubusercontent.com/u/4039449?u=42eb3b833047c8c4b4f647a031eaef148c16d93f&v=4
 url: https://github.com/samuelcolvin
waynerv:
 login: waynerv
 count: 5
 avatarUrl:
https://avatars.githubusercontent.com/u/39515546?u=ec35139777597cdbbbddda29bf8b9d4396b429a9&v=4
 url: https://github.com/waynerv
krishnamadhavan:
 login: krishnamadhavan
 count: 5
 avatarUrl:
https://avatars.githubusercontent.com/u/31798870?u=950693b28f3ae01105fd545c046e46ca3d31ab06&v=4
 url: https://github.com/krishnamadhavan
jekirl:
  login: jekirl
 count: 4
 avatarUrl:
https://avatars.githubusercontent.com/u/2546697?u=a027452387d85bd4a14834e19d716c99255fb3b7&v=4
 url: https://github.com/jekirl

hitrust:
 login: hitrust
 count: 4
 avatarUrl:
https://avatars.githubusercontent.com/u/3360631?u=5fa1f475ad784d64eb9666bdd43cc4d285dcc773&v=4
 url: https://github.com/hitrust
ShahriyarR:
 login: ShahriyarR
 count: 4
 avatarUrl:
https://avatars.githubusercontent.com/u/3852029?u=631b2ae59360ab380c524b32bc3d245aff1165af&v=4
 url: https://github.com/ShahriyarR
adriangb:
 login: adriangb
 count: 4
 avatarUrl:
https://avatars.githubusercontent.com/u/1755071?u=612704256e38d6ac9cbed24f10e4b6ac2da74ecb&v=4
 url: https://github.com/adriangb
iudeen:
 login: iudeen
 count: 4
 avatarUrl:
https://avatars.githubusercontent.com/u/10519440?u=f09cdd745e5bf16138f29b42732dd57c7f02bee1&v=4
 url: https://github.com/iudeen
musicinmybrain:
 login: musicinmybrain
 count: 4
 avatarUrl:
https://avatars.githubusercontent.com/u/6898909?u=9010312053e7141383b9bdf538036c7f37fbaba0&v=4
  url: https://github.com/musicinmybrain
philipokiokio:
 login: philipokiokio
 count: 4
 avatarUrl:
https://avatars.githubusercontent.com/u/55271518?u=d30994d339aaaf1f6bf1b8fc810132016fbd4fdc&v=4
 url: https://github.com/philipokiokio
AlexWendland:
 login: AlexWendland
 count: 4
 avatarUrl:
https://avatars.githubusercontent.com/u/3949212?u=c4c0c615e0ea33d00bfe16b779cf6ebc0f58071c&v=4
 url: https://github.com/AlexWendland
divums:
 login: divums
 count: 3
 avatarUrl: https://avatars.githubusercontent.com/u/1397556?v=4
 url: https://github.com/divums
prostomarkeloff:

```
 login: prostomarkeloff
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/28061158?u=6918e39a1224194ba636e897461a02a20126d7ad&v=4
 url: https://github.com/prostomarkeloff
nsidnev:
 login: nsidnev
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/22559461?u=a9cc3238217e21dc8796a1a500f01b722adb082c&v=4
 url: https://github.com/nsidnev
pawamoy:
  login: pawamoy
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/3999221?u=b030e4c89df2f3a36bc4710b925bdeb6745c9856&v=4
 url: https://github.com/pawamoy
patrickmckenna:
 login: patrickmckenna
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/3589536?u=53aef07250d226d35e526768e26891964907b41a&v=4
 url: https://github.com/patrickmckenna
hukkin:
 login: hukkin
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/3275109?u=77bb83759127965eacbfe67e2ca983066e964fde&v=4
 url: https://github.com/hukkin
marcosmmb:
 login: marcosmmb
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/6181089?u=03c50eec631857d84df5232890780d00a3f76903&v=4
 url: https://github.com/marcosmmb
Serrones:
 login: Serrones
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/22691749?u=4795b880e13ca33a73e52fc0ef7dc9c60c8fce47&v=4
 url: https://github.com/Serrones
uriyyo:
 login: uriyyo
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/32038156?u=0c68019beb28381ce5205a838937c61e0fe3fee2&v=4
  url: https://github.com/uriyyo
andrew222651:
```

login: andrew222651
count: 3
avatarUrl: https://avatars.githubusercontent.com/u/889657?u=d70187989940b085bcbfa3bedad8dbc5f3ab1fe7&v=4
url: https://github.com/andrew222651
rkbeatss:
login: rkbeatss
count: 3
avatarUrl: https://avatars.githubusercontent.com/u/23391143?u=56ab6bff50be950fa8cae5cf736f2ae66e319ff3&v=4
url: https://github.com/rkbeatss
asheux:
login: asheux
count: 3
avatarUrl:
https://avatars.githubusercontent.com/u/22955146?u=4553ebf5b5a7c7fe031a46182083aa224faba2e1&v=4
url: https://github.com/asheux
blkst8:
login: blkst8
count: 3
avatarUrl:
https://avatars.githubusercontent.com/u/49960770?u=7d8a6d5f0a75a5e9a865a2527edfd48895ea27ae&v=4
url: https://github.com/blkst8
ghandic:
login: ghandic
count: 3
avatarUrl:
https://avatars.githubusercontent.com/u/23500353?u=e2e1d736f924d9be81e8bfc565b6d8836ba99773&v=4
url: https://github.com/ghandic
TeoZosa:
login: TeoZosa
count: 3
avatarUrl:
https://avatars.githubusercontent.com/u/13070236?u=96fdae85800ef85dcfcc4b5f8281dc8778c8cb7d&v=4
url: https://github.com/TeoZosa
graingert:
login: graingert
count: 3
avatarUrl: https://avatars.githubusercontent.com/u/413772?v=4
url: https://github.com/graingert
jaystone776:
login: jaystone776
count: 3
avatarUrl:
https://avatars.githubusercontent.com/u/11191137?u=299205a95e9b6817a43144a48b643346a5aac5cc&v=4
url: https://github.com/jaystone776
zanieb:
login: zanieb
count: 3
avatarUrl: https://avatars.githubusercontent.com/u/2586601?u=e5c86f7ff3b859e7e183187ac2b17fd6ee32b3ab&v=4

```
 url: https://github.com/zanieb
MicaelJarniac:
 login: MicaelJarniac
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/19514231?u=158c91874ea98d6e9e6f0c6db37ee2ce60c55ff2&v=4
 url: https://github.com/MicaelJarniac
papb:
 login: papb
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/20914054?u=890511fae7ea90d887e2a65ce44a1775abba38d5&v=4
  url: https://github.com/papb
tamird:
 login: tamird
 count: 3
 avatarUrl: https://avatars.githubusercontent.com/u/1535036?v=4
 url: https://github.com/tamird
Nimitha-jagadeesha:
 login: Nimitha-jagadeesha
 count: 3
 avatarUrl: https://avatars.githubusercontent.com/u/58389915?v=4
 url: https://github.com/Nimitha-jagadeesha
lucaromagnoli:
 login: lucaromagnoli
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/38782977?u=e66396859f493b4ddcb3a837a1b2b2039c805417&v=4
 url: https://github.com/lucaromagnoli
salmantec:
 login: salmantec
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/41512228?u=443551b893ff2425c59d5d021644f098cf7c68d5&v=4
 url: https://github.com/salmantec
OCE1960:
 login: OCE1960
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/45076670?u=0e9a44712b92ffa89ddfbaa83c112f3f8e1d68e2&v=4
 url: https://github.com/OCE1960
hamidrasti:
 login: hamidrasti
 count: 3
 avatarUrl:
 https://avatars.githubusercontent.com/u/43915620?v=4
 url: https://github.com/hamidrasti
valentinDruzhinin:
```

```
 login: valentinDruzhinin
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/12831905?u=aae1ebc675c91e8fa582df4fcc4fc4128106344d&v=4
 url: https://github.com/valentinDruzhinin
kkinder:
 login: kkinder
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/1115018?u=c5e90284a9f5c5049eae1bb029e3655c7dc913ed&v=4
 url: https://github.com/kkinder
kabirkhan:
 login: kabirkhan
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/13891834?u=e0eabf792376443ac853e7dca6f550db4166fe35&v=4
 url: https://github.com/kabirkhan
zamiramir:
 login: zamiramir
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/40475662?v=4
 url: https://github.com/zamiramir
trim21:
 login: trim21
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/13553903?u=3cadf0f02095c9621aa29df6875f53a80ca4fbfb&v=4
 url: https://github.com/trim21
koxudaxi:
 login:
 koxudaxi
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/630670?u=507d8577b4b3670546b449c4c2ccbc5af40d72f7&v=4
 url: https://github.com/koxudaxi
pablogamboa:
 login: pablogamboa
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/12892536?u=326a57059ee0c40c4eb1b38413957236841c631b&v=4
 url: https://github.com/pablogamboa
dconathan:
 login: dconathan
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/15098095?v=4
 url: https://github.com/dconathan
Jamim:
 login: Jamim
 count: 2
```

avatarUrl:
https://avatars.githubusercontent.com/u/5607572?u=9ce0b6a6d1a5124e28b3c04d8d26827ca328713a&v=4
url: https://github.com/Jamim
svalouch:
login: svalouch
count: 2
avatarUrl: https://avatars.githubusercontent.com/u/54674660?v=4
url: https://github.com/svalouch
frankie567:
login: frankie567
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/1144727?u=f3e79acfe4ed207e15c2145161a8a9759925fcd2&v=4
url: https://github.com/frankie567
marier-nico:
login: marier-nico
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/30477068?u=c7df6af853c8f4163d1517814f3e9a0715c82713&v=4
url: https://github.com/marier-nico
Dustyposa:
login: Dustyposa
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/27180793?u=5cf2877f50b3eb2bc55086089a78a36f07042889&v=4
url: https://github.com/Dustyposa
aviramha:
login: aviramha
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/41201924?u=6883cc4fc13a7b2e60d4deddd4be06f9c5287880&v=4
url: https://github.com/aviramha
iwpnd:
login: iwpnd
count: 2
avatarUrl: https://avatars.githubusercontent.com/u/6152183?u=ec59396e9437fff488791c5ecdf6d23f1f1ebf3a&v=4
url: https://github.com/iwpnd
raphaelauv:
login: raphaelauv
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/10202690?u=e6f86f5c0c3026a15d6b51792fa3e532b12f1371&v=4
url: https://github.com/raphaelauv
windson:
login: windson
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/1826682?u=8b28dcd716c46289f191f8828e01d74edd058bef&v=4

url: https://github.com/windson
sm-Fifteen:
login: sm-Fifteen
count: 2
avatarUrl: https://avatars.githubusercontent.com/u/516999?u=437c0c5038558c67e887ccd863c1ba0f846c03da&v=4
url: https://github.com/sm-Fifteen
sattosan:
login: sattosan
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/20574756?u=b0d8474d2938189c6954423ae8d81d91013f80a8&v=4
url: https://github.com/sattosan
michaeloliverx:
login: michaeloliverx
count: 2
avatarUrl: https://avatars.githubusercontent.com/u/55017335?u=efb0cb6e261ff64d862fafb91ee80fc2e1f8a2ed&v=4
url: https://github.com/michaeloliverx
voegtlel:
login: voegtlel
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/5764745?u=db8df3d70d427928ab6d7dbfc395a4a7109c1d1b&v=4
url: https://github.com/voegtlel
HarshaLaxman:
login: HarshaLaxman
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/19939186?u=a112f38b0f6b4d4402dc8b51978b5a0b2e5c5970&v=4
url: https://github.com/HarshaLaxman
RunningIkkyu:
login: RunningIkkyu
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/31848542?u=494ecc298e3f26197495bb357ad0f57cfd5f7a32&v=4
url: https://github.com/RunningIkkyu
cassiobotaro:
login: cassiobotaro
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/3127847?u=a08022b191ddbd0a6159b2981d9d878b6d5bb71f&v=4
url: https://github.com/cassiobotaro
chenl:
login: chenl
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/1677651?u=c618508eaad6d596cea36c8ea784b424288f6857&v=4
url: https://github.com/chenl
retnikt:

```
 login: retnikt
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/24581770?v=4
 url: https://github.com/retnikt
yankeexe:
 login: yankeexe
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/13623913?u=f970e66421775a8d3cdab89c0c752eaead186f6d&v=4
 url: https://github.com/yankeexe
patrickkwang:
 login: patrickkwang
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/1263870?u=4bf74020e15be490f19ef8322a76eec882220b96&v=4
  url: https://github.com/patrickkwang
victorphoenix3:
 login: victorphoenix3
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/48182195?u=e4875bd088623cb4ddeb7be194ec54b453aff035&v=4
 url: https://github.com/victorphoenix3
davidefiocco:
 login: davidefiocco
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/4547987?v=4
 url: https://github.com/davidefiocco
adriencaccia:
 login: adriencaccia
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/19605940?u=9a59081f46bfc9d839886a49d5092cf572879049&v=4
 url: https://github.com/adriencaccia
jamescurtin:
 login: jamescurtin
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/10189269?u=0b491fc600ca51f41cf1d95b49fa32a3eba1de57&v=4
 url: https://github.com/jamescurtin
jmriebold:
 login: jmriebold
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/6983392?u=4efdc97bf2422dcc7e9ff65b9ff80087c8eb2a20&v=4
  url: https://github.com/jmriebold
nukopy:
 login: nukopy
 count: 2
 avatarUrl:
```

https://avatars.githubusercontent.com/u/42367320?u=6061be0bd060506f6d564a8df3ae73fab048cdfe&v=4
 url: https://github.com/nukopy
imba-tjd:
 login: imba-tjd
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/24759802?u=01e901a4fe004b4b126549d3ff1c4000fe3720b5&v=4
 url: https://github.com/imba-tjd
johnthagen:
 login: johnthagen
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/10340167?u=47147fc4e4db1f573bee3fe428deeacb3197bc5f&v=4
 url: https://github.com/johnthagen
paxcodes:
 login: paxcodes
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/13646646?u=e7429cc7ab11211ef762f4cd3efea7db6d9ef036&v=4
 url: https://github.com/paxcodes
kaustubhgupta:
 login: kaustubhgupta
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/43691873?u=8dd738718ac7ffad4ef31e86b5d780a1141c695d&v=4
 url: https://github.com/kaustubhgupta
kinuax:
 login: kinuax
  count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/13321374?u=22dc9873d6d9f2c7e4fc44c6480c3505efb1531f&v=4
 url: https://github.com/kinuax
wakabame:
 login: wakabame
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/35513518?u=41ef6b0a55076e5c540620d68fb006e386c2ddb0&v=4
 url: https://github.com/wakabame
nzig:
 login: nzig
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/7372858?u=e769add36ed73c778cdb136eb10bf96b1e119671&v=4
 url: https://github.com/nzig
yezz123:
 login: yezz123
 count: 2
 avatarUrl:

https://avatars.githubusercontent.com/u/52716203?u=21b53ce4115062b1e20cb513e64ca0000c2ef127&v=4
 url: https://github.com/yezz123
softwarebloat:
 login: softwarebloat
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/16540684?v=4
 url: https://github.com/softwarebloat
Lancetnik:
 login: Lancetnik
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/44573917?u=6eaa0cdd35259fba40a76b82e4903440cba03fa9&v=4
 url:
 https://github.com/Lancetnik
joakimnordling:
 login: joakimnordling
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/6637576?u=df5d99db9b899b399effd429f4358baaa6f7199c&v=4
 url: https://github.com/joakimnordling
yogabonito:
 login: yogabonito
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/7026269?v=4
 url: https://github.com/yogabonito
s111d:
 login: s111d
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/4954856?v=4
 url: https://github.com/s111d
estebanx64:
 login: estebanx64
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/10840422?u=1900887aeed268699e5ea6f3fb7db614f7b77cd3&v=4
 url: https://github.com/estebanx64
ndimares:
 login: ndimares
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/6267663?u=cfb27efde7a7212be8142abb6c058a1aeadb41b1&v=4
 url: https://github.com/ndimares
rabinlamadong:
 login: rabinlamadong
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/170439781?v=4
 url:

https://github.com/rabinlamadong
AyushSinghal1794:
login: AyushSinghal1794
count: 2
avatarUrl: https://avatars.githubusercontent.com/u/89984761?v=4
url: https://github.com/AyushSinghal1794
gsheni:
login: gsheni
count: 2
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chailandau:
login: chailandau
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/112015853?u=2e6aaf2b1647db43834aabeae8d8282b4ec01873&v=4
url: https://github.com/chailandau
DanielKusyDev:
login: DanielKusyDev
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/36250676?u=2ea6114ff751fc48b55f231987a0e2582c6b1bd2&v=4
url: https://github.com/DanielKusyDev
DanielYang59:
login: DanielYang59
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/80093591?u=63873f701c7c74aac83c906800a1dddc0bc8c92f&v=4
url: https://github.com/DanielYang59
blueswen:
login: blueswen
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/1564148?u=6d6b8cc8f2b5cef715e68d6175154a8a94d518ee&v=4
url: https://github.com/blueswen
Taoup:
login: Taoup
count: 2
avatarUrl: https://avatars.githubusercontent.com/u/22348542?v=4
url: https://github.com/Taoup

1.113 pyang 2.6.1

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1.114 tabulate 0.9.0

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1.118 wsproto 1.2.0

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1.120 iniconfig 2.0.0

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the original RIPEMD.c module simply had a copyright statement and
warranty disclaimer, without clearly specifying any license terms.
(An updated version on the author's website came with a license that
contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have
been taken:

1. Obtaining explicit permission
 from the original contributors to
   dedicate their contributions to the public domain if they have not
   already done so. (See the "LEGAL/copy/stmts" directory for
   contributors' statements.)

2. Replacing some modules with clearly-licensed code from other
   sources (e.g. the DES and DES3 modules were replaced with new ones
   based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the
   RIPEMD and Blowfish modules were re-implemented from their
   respective algorithm specifications without reference to the old
   implementations).

4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or
within the files themselves, the files that constitute PyCrypto are in
the public domain. Most are distributed with the following notice:

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1.124 pyyaml 6.0.2

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1.125 jaraco.context 5.3.0

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1.126 pyte 0.8.2

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1.129 inflect 7.3.1

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1.131 typing-extensions 4.12.2

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

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

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1.132 packaging 24.2

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1.133 rich 14.1.0

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1.137 propcache 0.2.0

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1.138 once_cell 1.19.0

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1.139 pyo3 0.23.5

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1.140 ahash 0.8.11

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1.141 pem 3.0.4

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1.142 pyo3-ffi 0.23.5

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1.144 regex-syntax 0.8.5

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1.145 base-64 0.22.1

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1.146 once_cell 1.20.2

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1.148 num-bigint 0.4.6

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1.149 smallvec 1.14.0

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1.151 idna 1.0.3

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1.152 uuid 1.16.0

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1.153 lexical-parse-float 1.0.5

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`parse-floats, compact`

`lexical-parse-float/src/bellerophon.rs` is loosely based off the Golang implementation,
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1.158 serde_json 1.0.140

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1.160 pyo3 0.24.1

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1.161 pyo3-ffi 0.24.1

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1.162 asn1 0.20.0

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1.163 openssl-sys 0.9.104

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1.164 icu_collections 1.5.0

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1.165 zeroize 1.8.1

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1.166 sha-2 0.10.8

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1.171 pyo3-ffi 0.23.1

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1.172 bcrypt 0.16.0

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1.173 pytest 9.0.1

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1.174 aiohttp 3.13.3

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1.175 pynacl 1.6.2

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Other contributions, including writing code, updating docs, and submitting
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Abdeali Kothari
Adam Turner
Adi Roiban
Agbonze O. Jeremiah

Albertas Agejevas
Aleksi Torhamo
Alex Gaynor
Alex Groce
Alex Sandro
Alexander Todorov
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Anthony Sottile
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