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

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

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

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

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

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

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## 1.5 unzip 60

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---

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---

FIRST NOTE:

This file contains some details about the copyright history of contributions to the UnZip project.

Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports.

Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

-----

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):

Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/\*"), Steve P. Miller (Pocket UnZip GUI "wince/\*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding \_in an apparatus that performs LZW encoding\_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and

its licensing requirements. (unshrink.c may be removed from future releases altogether.)

---

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip

5.42, the complete

core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program.

For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

```
* MoreFiles
*
* A collection of File Manager and related routines
*
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
* Copyright 1992-1998
```

Apple Computer, Inc.

```
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*
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* it clear in the source that the code was descended
```

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- \* changes."

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The following copyright applies to the Mac OS "macbin3" decoding code (extra field compatibility with ZipIt):

- \* MacBinaryIII.h
- \*
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- \*
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- \* MacBinary III spec.
- \* -----
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- \* (available at ftp://ftp.lazerware.com/MacBinaryIII\_src\_C.sit
- \* homepage of Leonard Rosenthol leonardr@netcom.com)

This copyright note does not contain any usage terms. So, we assume that this code is freely reusable until we are proved wrong...

-----

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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that



he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

-----

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-----

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-----

The remaining code was written by many people associated with the  
Info-ZIP group, with large contributions from (but not limited to):  
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename  
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),  
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine  
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows  
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and  
others. See the file CONTRIBS in the source distribution for a much  
more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch],  
explode.c) was originally written by Mark Adler who submitted it  
as public domain code.

-----

## 1.6 vlan 1.9

### 1.6.1 Available under license :

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Version 2, June 1991

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```

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<signature of Ty Coon>, 1 April 1989

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## 1.7 ndg-httpsclient 0.5.1

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## 1.8 mod-authnz-external 3.3.3

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mod\_authnz\_external is based on code from the following sources:

- 
- \* Original author: Nathan Neulinger (nneul@umr.edu)
  - \* Based on code from The Apache Group

\* Previous maintainers:

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Jan Wolter (unixpapa.com)

\* Past contributors (from CHANGES):

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Micah Andersen/Baptist International Missions, Inc. (micah@bimi.org)

## 1.9 subprocess32 3.5.4

### 1.9.1 Available under license :

#### A. HISTORY OF THE SOFTWARE

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

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

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

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

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

2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes

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The

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

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

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

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## 1.17 nss-ldap 265

### 1.17.1 Available under license :

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

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

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

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b) Accompany the work

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

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

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

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

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## 1.18 iana-etc 2.30

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# 1.19 pam-ldap 186

## 1.19.1 Available under license :

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must

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## 1.28 megactl 0.4.1

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## 1.29 libnsI 2.0.0

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## 1.30 ooid 0.999

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## 1.32 sysfsutils 2.1.1



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## 1.39 python-netifaces 0.11.0

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## 1.40 python-pysnmp 4.4.12

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4.4.12/pysnmp/carrier/asyncio/dgram/udp.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/carrier/asyncio/dispatch.py
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4.4.12/pysnmp/carrier/asyncio/dgram/base.py
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4.4.12/pysnmp/carrier/asyncio/base.py
*
```

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/opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
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Further development

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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 <<http://snmplabs.com/pysmi/>>`\_ 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 <<http://snmplabs.com/snmpfwd/>>`\_.

#. 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 <<http://snmplabs.com/snmpsim/>>`\_.

If you need some particular feature - please, `open a feature request <<https://github.com/etingof/pysnmp/issues/new>>`\_ . 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 get back to us to discuss details.

Contributions to the PySNMP source code is greatly appreciated as well. We require contributed code to run with Python 2.4 through the latest Python version (which is 3.7 at the time of this writing). Contributed code will be redistributed under the terms of the same `license <<http://snmplabs.com/pysnmp/>>`\_ as PySNMP is.

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\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/compiler.py  
\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/view.py  
\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/indices.py  
\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/entity/rfc3413/mibvar.py  
\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/asyncore/dgram/udp.py  
\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/eso/priv/des3.py  
\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/twisted/dgram/udp.py

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* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/hlapi/asyncio/transport.py
*
/opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/entity/rfc3413/config.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/entity/config.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/errind.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/entity/rfc3413/oneliner/ntforg.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/entity/rfc3413/context.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/proto/secmod/cache.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/hlapi/asyncore/sync/compat/cmdgen.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/carrier/asynsock/dgram/udp.py
*
/opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/api/v2c.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/entity/rfc3413/ntfrcv.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/carrier/sockmsg.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/carrier/asynsock/dgram/unix.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/smi/mibs/instances/__SNMP-MPD-MIB.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/debug.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/proto/secmod/base.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/carrier/asynsock/dispatch.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/smi/mibs/instances/__SNMPv2-MIB.py
*
/opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/carrier/asyncore/dgram/udp6.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/proto/secmod/rfc3414/auth/noauth.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/proto/api/__init__.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/hlapi/asyncore/sync/ntforg.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/rfc3412.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-
USER-BASED-SM-MIB.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/smi/mibs/SNMPv2-CONF.py

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\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/rfc1157.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/asyncore/dispatch.py

\*

/opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/rfc3414/auth/base.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMPv2-SMI.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/instrum.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/rfc1902.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-MPD-MIB.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/transport.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/TRANSPORT-ADDRESS-MIB.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/PYSNMP-SOURCE-MIB.py

\*

/opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-COMMUNITY-MIB.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-VIEW-BASED-ACM-MIB.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/entity/rfc3413/ntforg.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/asyncio/\_\_init\_\_.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMPv2-TC.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/acmod/rfc3415.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/asyncore/ntforg.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/error.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/PYSNMP-MIB.py

\*

/opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/rfc1155.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/rfc7860/auth/hmacsha2.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/twisted/cmdgen.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/error.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/mpmod/cache.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/entity/observer.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/rfc3414/\_\_init\_\_.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-

4.4.12/pysnmp/hlapi/asyncore/sync/cmdgen.py  
 \* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/acmod/void.py  
 \*  
 /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/rfc1905.py  
 \* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/ASN1-ENUMERATION.py  
 \* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/entity/rfc3413/oneliner/cmdgen.py  
 \* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/cache.py  
 \* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/api/v1.py  
 \* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/rfc3414/priv/nopriv.py  
 \* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/rfc3411.py  
 \* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-FRAMEWORK-MIB.py  
 \* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/asynsock/dgram/udp6.py  
 \*  
 /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/rfc3414/auth/hmacmd5.py  
 \* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/asyncore/transport.py  
 \* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/rfc3826/priv/aes.py  
 \* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/asyncore/\_\_init\_\_.py  
 \* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/eso/priv/aes192.py  
 \* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/api/verdec.py  
 \* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/asyncore/base.py  
 \* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/rfc3414/localkey.py  
 \*  
 /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/error.py  
 \* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMPv2-TM.py  
 \* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/ASN1-REFINEMENT.py  
 \* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/instances/\_\_SNMP-USER-BASED-SM-MIB.py  
 \* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/proxy/rfc2576.py  
 \* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/lcd.py  
 \* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/eso/priv/aesbase.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/instances/\_\_SNMP-TARGET-MIB.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-NOTIFICATION-MIB.py

\*

/opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/asyncore/sync/compat/ntforg.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/sockfix.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/asyncore/dgram/unix.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/mpmod/rfc2576.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/asyncore/cmdgen.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/auth.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/cache.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-USER-BASED-SM-3DES-MIB.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/exval.py

\*

/opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/instances/\_\_SNMP-FRAMEWORK-MIB.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/rfc2576.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/rfc3414/priv/base.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/rfc3414/priv/des.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/asyncore/sync/\_\_init\_\_.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/ASN1.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/INET-ADDRESS-MIB.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/asyncore/dgram/base.py

\*

/opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/base.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/twisted/dgram/base.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/asyncio/ntforg.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/PYSNMP-USM-MIB.py

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/entity/engine.py

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

Metadata-Version: 1.2



Name: pysnmp  
Version: 4.4.12  
Summary: SNMP library for Python  
Home-page: <https://github.com/etingof/pysnmp>  
Author: Ilya Etingof  
Author-email: [etingof@gmail.com](mailto:etingof@gmail.com)  
Maintainer: Ilya Etingof <[etingof@gmail.com](mailto:etingof@gmail.com)>  
License: BSD

Description:

SNMP v1/v2c/v3 engine and Standard Applications suite written in pure-Python.  
Supports Manager/Agent/Proxy roles, Manager/Agent-side MIBs, asynchronous operation and multiple network transports.

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

Classifier: Natural Language :: English

Classifier:

Operating System :: OS Independent

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.4

Classifier: Programming Language :: Python :: 2.5

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.2

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Classifier: Topic :: Communications

Classifier: Topic :: System :: Monitoring

Classifier: Topic :: System :: Networking :: Monitoring

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

Found in path(s):

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/PKG-INFO

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp.egg-info/PKG-INFO

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

Revision 4.4.12, released 2019-09-24

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- Fixed broken SNMPv3 `msgFlag` initialization on authoritative SNMP engine ID discovery. This bug causes secure communication with peer SNMP engines to stall at SNMP engine ID discovery procedure.

Revision 4.4.11, released 2019-08-10

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- Added SNMPv3 USM master and localized keys support to LCD configuration
- Improved initial and runtime USM debugging
- Fixed a bug in USM configuration which did not allow the same user names to be added under different security names

Revision 4.4.10, released 2019-07-29

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- Reworked VACM access control function. Most important changes include:
  - \* Added subtree match negation support (vacmViewTreeFamilyType)
  - \* Added subtree family mask support (vacmViewTreeFamilyMask)
  - \* Added prefix content name matching support (vacmAccessContextMatch)
  - \* Added key VACM tables caching for better `isAccessAllowed` lookup performance

One potential incompatibility may be caused by the `addContext()` call which now needs to be made explicitly during low-level VACM configuration rather than be a side effect of `addVacmAccess()` call.

- Rebased MIB importing code onto `importlib` because `imp` is long deprecated
- Received MIB objects resolution made more forgiving to errors, added optional `ignoreErrors` parameter to `ObjectType.resolveWithMib()` to control that behaviour.
- Fixed asyncore main loop to respect non-default timer resolution
- Fixed `.setTimerResolution()` behaviour of abstract main loop dispatcher to update call intervals of the existing periodic dispatcher jobs
- Fixed `var-bindings` initialization to prevent pyasn1 encoder failures with newer pyasn1 versions where `SequenceOf` type loses its default initializer.
- Fixed crash on uninitialized component serialization left out in SNMP v1 TRAP PDU to SNMPv2/3 TRAP PDU proxy translation routine.

Revision 4.4.9, released 2019-02-09

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- Made MIB loader ignoring file and directory access errors
- Added missing SNMP PDU error classes and their handling in Command Responder
- Fixed crash on MIB load failure in case of directory access error
- Fixed socket transparency option (IPV6\_TRANSPARENT) to make IPv6 transparent operation functional

Revision 4.4.8, released 2018-12-30

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- Fixed Pythonized MIB load (in the source form) - made sure to turn it into a code object prior to its execution

Revision 4.4.7, released 2018-12-29

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- Copyright notice extended to the year 2019
- Exposed ASN.1 `Null` type through `rfc1902` module for convenience.
- Use `compile()` before `exec`ing MIB modules to attach filename to the stack frames (ultimately shown in traceback/debugger)
- Fixed hlapi/v3arch transport target caching to ensure transport targets are different even if just timeout/retries options differ
- Fixed hlapi LCD configurator to include `contextName`. Prior to this fix sending SNMPv3 TRAP with non-default `contextName` would fail.
- Fixed possible duplicate key occurrence in the `OrderedDict` following a race condition
- Fixed undefined name references in `inet\_pton`/`inet\_ntop` substitute routines for IPv6 in `TRANSPORT-ADDRESS-MIB.py`

Revision 4.4.6, released 2018-09-13

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- Improved package build and dependency tracking
- Fixed missing LICENSE from the tarball distribution
- Fixed `CommandGeneratorLcdConfigurator.unconfigure()` to fully clean up internal caches, otherwise repetitive attempts to configure the target would fail.
- Fix to tolerate possible duplicate enumerations in `Bits` and `Integer` SMI types.
- Fix to tolerate non-initialised entries in SNMP community table. Once a bad entry sneaked into the SNMP community table, all the subsequent SNMP v1/v2c operations failed. The fix ignores incomplete SNMP community table entries in the course of building indices.

Revision 4.4.5, released 2018-08-05

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- Added PySnmpError.cause attribute holding parent exception tuple
- Fixed broken InetAddressType rendering caused by a pyasn1 regression
- Fixed typo in RFC1158 module
- Fixed possible infinite loop in GETBULK response PDU builder
- Fixed memory leak in the `config.delContext()` VACM management harness
- Fixed `Bits` class initialization when enumeration values are given
- Fixed crash caused by incoming SNMPv3 message requesting SNMPv1/v2c security model
- Fixed out-of-scope OIDs leaking at the end of SNMP table at hlapi `nextCmd` and `bulkCmd` calls when `lexicographicMode = False`

Revision 4.4.4, released 2018-01-03

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- Copyright notice extended to the year 2018
- Fixed short local key expansion at 3DES key localization implementation.

Revision

4.4.3, released 2017-12-22

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- Migrated references from SourceForge
- Added missing SHA2 support for Blumenthal key localization
- Fixed named bits handling at rfc1902.Bits
- Fixed missing SmiError exception class at pysnmp.proto.rfc1155
- Fixed SNMP v1->v2c PDU proxy -- error-status & error-index fields from v1 PDU get copied over to v2c PDU in addition to the exception sentinels being set

Revision 4.4.2, released 2017-11-11

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- The pysnmp version being used gets exposed to the MIB modules via the `MibBuilder` instance
- The .setObjects() method of the SMI types now accepts `append=False` parameter to let the caller adding more than 255 elements over the course of multiple calls
- Added support for some more missing fields of SMIV2 MACRO types
- Example scripts rearranged in a way that IPv6 requirement is clearly encoded in the script's name
- Fixed SNMPv2-SMI.NotificationType to expose .set/getReference() instead of .set/getRevision() which should not be there in the first place
- Fixed non-implied-OID encoding in SNMP table indices
- Fixed inconsistent SNMPv3 discovery and retrying algorithm

Revision 4.4.1, released 2017-10-23

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- HMAC-SHA-2 Authentication Protocols support added (RFC-7860)
  - The pycryptodome dependency replaced with pycryptodomex as it is recommended by the upstream to avoid unwanted interference with PyCrypto package should it also be installed
  - Sphinx theme changed to Alabaster in the documentation
  - Minor adjustments towards pyasn1 0.4.x compatibility
  - Fixed ObjectIdentifier-into-ObjectIdentity casting at rfc1902.ObjectType MIB resolution harness
  - Fixed NetworkAddress object handling in SNMP table indices
  - Fixed MIB lookup by module:object.indices MIB object with InetAddressIPv{4,6} objects being in the index
  - Fixed non-translated PDU being retries at CommandGenerator what leads to wrong PDU version being sent and even a crash on incompatible PDU/SNMP message combination

Revision 4.3.10, released 2017-10-06

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- Refactored partial SNMP message decoding to make it less dependent on unpublished pyasn1 API features.
- Fix to MibTableRow.setFromName() to keep the input parameter type when it propagates to the return value. Before this fix ObjectIdentity.prettyPrint() may crash when rendering malformed SNMP table indices.
- Fixed NotificationReceiver to include SNMPv1 TRAP Message community string into SNMPv2c/v3 TRAP PDU
- Fixed multiple bugs in SNMP table indices rendering, especially the InetAddressIPv6 type which was severely broken.
- Fixed crashing Bits.prettyPrint() implementation
- Fixed crashing Bits.clone()/subtype() implementation
- Fixed leaking exceptions bubbling up from the asyncio and Twisted adapters

Revision 4.3.9, released 2017-07-26

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- Deprecated UsmUserData initialization parameters removed
- Adapted to pyasn1 API changes introduced by release 0.3.1
- Fix to a crash happening on inbound SNMP message having non-initialized fields
- Fix to (persistent SNMP engine ID) file writing on Windows

Revision 4.3.8, released 2017-06-15

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- Security fix to the bug introduced in 4.3.6: msgAuthoritativeEngineTime

stopped changing over time and was returning the same timestamp (process start time). This fix makes it growing as it should.

Revision 4.3.7, released 2017-05-29

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\* Fixed import error in legacy NotificationOriginator implementation

Revision 4.3.6, released 2017-05-28

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- More instrumentation hooks added addressing security failures auditing needs.
- SNMP table indices correlation implemented within SMI framework. The opaque InetAddress type implemented. INET-ADDRESS-MIB included into the distribution.
- SNMP table indices resolution logic made more robust against malformed indices.
- Fixes to \*lexicographicMode\* option documentation to make it unambiguous.
- The `ErrorIndication` object is now derived from `Exception` so that it could be raised in exceptions.
- The `errorIndication` values produced by various parts of SNMP engine unified to be `ErrorIndication` instances. This fixes an issue with Twisted.
- Embedded MIB modules rebuilt with the latest pysmi adding previously missing attributes like `status`, `description` etc.
- Fixed potential SNMP engine crash on handling incoming message at unsupported security level

Revision 4.3.5, released 2017-03-24

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- The getNext() and getBulk() calls of Twisted interface now support ignoreNonIncreasingOid option.
- TextualConvention is now a new-style class.
- Fix to accidentally reset error-status when building confirmed class SNMPv1 PDU.
- Fix to possible infinite recursion in TextualConvention.prettyIn().
- Fixed crash when attempting to report unsupported request/notification PDU back to sender.

Revision 4.3.4, released 2017-03-01

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- Fix to low-level SNMP API example to accommodate changed pyasn1

SEQUENCE supporting iterator protocol.

- The pyasn1 version dependency bumped (0.2.3), SEQUENCE/SEQUENCE OF API calls adjusted to accommodate changed pyasn1 API (in part of .setComponentBy\*() kw flags).
- Fixed crash on SNMP engine's invalid message counter increment.

Revision 4.3.3, released 2017-02-04

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- Switched from now unmaintained PyCrypto to PyCryptodome.
- Switched to new-style classes.
- NotificationType now allows additional var-binds specified as MIB objects. A side effect of this change is that additional var-binds can only be added prior to .resolveMibObjects() is run.
- Non-standard (but apparently used by many vendors) Reeder AES192/256 key localization algorithm implemented and set as default for usmAesCfb192Protocol and usmAesCfb256Protocol identifiers. Original and more standard implementation can still be used with the usmAesBlumenthalCfb192Protocol and usmAesBlumenthalCfb192Protocol IDs respectively.
- TextualConvention.prettyOut() improved to produce prettier and more SMI-compliant output.
- TextualConvention.prettyIn() implemented to handle DISPLAY-HINT based value parsing.
- Fix to NotificationType to make additional var-binds overriding MIB objects implicitly included through NOTIFICATION-TYPE OBJECTS.
- Fix to SNMP engine boots counter persistence on Python 3.
- Fix to Pythonized MIBs loading when only .pyc files are present (e.g. py2exe/cx\_freeze environments).
- Fix broken 3DES key localization and encryption procedures.
- Updated IP address for demo.snmplabs.com in examples.
- Missing index added to bundled RFC1213::atEntry MIB table.
- Twisted integration made Python3 compatible.
- Accommodated ASN.1 SEQUENCE iteration rules change in upcoming pyasn1 version.
- 
- Author's email changed, copyright extended to 2017.

Revision 4.3.2, released 2016-02-12

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- Copyright notice added to non-trivial source code files.
- SNMP table row consistency check added. This change may break valid SNMP SET operations on tables if RowStatus column is not passed at the very end of var-binds.
- All SNMP counters now incremented via '+= 1' rather than 'x = x + 1' to simplify their tracking by third-party code.

- Notification originator examples re-pointed to Notification Receiver at demo.snmplabs.com.
- Two more execution observer points added: rfc2576.processIncomingMsg and rfc3414.processIncomingMsg to give an insight on security modules internals.
- TEXTUAL-CONVENTION's DISPLAY-HINT text formatting reworked for better performance and encoding accuracy of 'a' and 't' formats.
- WARNING: security fix to USM - extra user entry clone removed on incoming message processing. It made USM accepting SNMPv3 TRAPs from unknown SNMP engine IDs.
- Fix to snmpInvalidMsgs and snmpUnknownSecurityModels MIB symbols import at SNMPv3 MP model.
- Fix to NotificationOriginator to cope with unspecified user callable.
- Fix to OctetString.prettyOut() to pretty-print Python 3 bytes without 'b' qualifier.
- Fix to better pysmi import errors handling.
- Fix to missing next() in Python 2.5 at pysnmp.hlapi

Revision 4.3.1, released 2015-11-12

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- Added recursive resolution of ObjectIdentifier values at ObjectType by converting it to ObjectIdentity.
- A bunch of convenience shortcuts to rfc1902.ObjectIdentity added from rfc1902.ObjectType and rfc1902.NotificationType (.addAsn1MibSource(), .addMibSource(), .loadMibs())
- When pretty printing indices at rfc1902.ObjectType, quote only strings.
- SNMP overview and PySNMP hlapi tutorial added to documentation.
- Fix to \_\_doc\_\_ use in setup.py to make -O0 installation mode working.
- Fix to ObjectIdentity->ObjectIdentifier attributes handover
- Fixed crash at oneliner compatibility code on EOM response.
- Fixed crash in hlapi.transport module.
- Fixed OID resolution issues that roots at node 0 and 2.
- Fix to MIB builder to fail gracefully on corrupted MIB package encounter.
- Fix to docs distribution -- now the are Sphinx-buildable out-of-the-box.
- Source code re-linted

Revision 4.3.0, released 2015-09-28

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- Critical error fixed in key localization procedure for AES192/AES256/3DES cyphers. Previous versions might never worked properly in this respect.
- Initial PySMI integration. Original ASN.1 MIBs could now be parsed, stored at a local pysnmp MIBs repository and loaded into SNMP Engine. Relevant example scripts added. Obsolete libsmi-based scripts removed.
- Major rewrite of native SNMPv3 CommandGenerator and NotificationOriginator



applications towards the following goals:

- \* avoid binding to specific SNMP engine instance to promote single SNMP app instance
  - using many SNMP engine instances
  - \* support two APIs for working with request data: one operates on the whole PDU object while the other on PDU contents
  - \* keep callback context data in stack rather than in stateful application cache
  - \* newly introduced sendVarBinds() method offers a more functional and logical signatures.
  - \* Promote the use of dedicated classes for dealing with OID-value pairs. Instances of those classes resemble OBJECT-IDENTITY, OBJECT-TYPE and NOTIFICATION-TYPE MIB structures.
  - \* Oneliner API reworked to become more generic: its LCD configuration shortcuts and var-bindings processing code split off SNMP apps classes to stand-alone objects. The whole API also moved up in package naming hierarchy and becomes 'pysnmp.hlapi.asyncore' (hlapi is apparently an African fish). Old oneliner API remains fully operational at its original location.
  - \* Synchronous oneliner apps redesigned to offer Python generator-based API along with a more comprehensive set of accepted parameters.
  - \* Asyncore-based asynchronous apps reworked to become functions.
  - \* Twisted API moved entirely into high-level domain to be aligned with other high-level APIs. This WILL BREAK backward compatibility for those apps that use Twisted API.
  - \* Keep backward compatibility for all existing major/documented interfaces
- 
- Sphinx documentation added to source code and example scripts. Library documentation converted from .html into RsT markup.
  - Execution Observer facility implemented to give app an inside view of SNMP engine inner workings. This is thought to be a generic framework for viewing (and modifying) various internal states of pysnmp engine. Previously introduced non-standard APIs (like getting peer's transport endpoint which is not suggested in RFCs) will be gradually migrated to this new framework.
  - Initial support for the asyncio & Trollius frameworks and coroutines-based SNMP Applications interfaces added. Both IPv4 and IPv6 datagram transports are currently supported.
  - Original asynsock transport and AsyncsockDispatcher renamed into asyncore and AsyncoreDispatcher respectively to provide better hint to fellow devs on the underlying transport being used. Backward compatibility preserved.
  - The asyncore-based transport subsystem extended to support POSIX sendmsg()/recvmsg() based socket communication what could be used, among other things, in the context of a transparent SNMP proxy

application. Technically, the following features were brought into pysnmp with this update:

- \* Sending SNMP packets from a non-local IP address
  - \* Receiving IP packets for non-local IP addresses
  - \* Responding to SNMP requests from exactly the same IP address the query was sent to. This proves to be useful when listening on both primary and secondary IP interfaces.
- 
- Internal oneliner apps configuration cache moved from respective apps objects to [a singular] snmpEngine "user context" object.  
That would allow for better cache reuse and allow for a single app working with many snmpEngine instances.
  - Oneliner GETBULK Command Generator now strips possible excessive OIDs off the bottom of returned var-binds table.
  - Constraints assignment shortcut added to some base rfc1902 types (Integer, Integer32, OctetString, Bits). That formally constitutes ASN.1 sub-typing.
  - Built-in debugging is now based on Python logging module.
  - Examples on a single Transport Dispatcher use with multiple SnmpEngine instances applications added.
  - Example script on transport timeout & retries manipulation added.
  - Example script explaining incoming message's communityName re-mapping added.
  - Broadcast socket option can now be enabled with the .enableBroadcast() call for any datagram-based transport (namely, UDP and UDP6).
  - AbstractTransportDispatcher's jobStarted() and jobFinished() methods now accept optional 'count' parameter which is a way for an app to indicate how many responses are expected or have been processed in bulk.
  - Example script on SNMP Agents UDP broadcast-based discovery added.
  - Oneliner transport object now supports setLocalAddress() method to force socket binding to specified local interface.
  - New public DgramSocketTransport.getLocalAddress() returns local endpoint address underlying BSD socket is currently bound to.
  - Passing request details to access control callback at CommandResponder reworked towards more robust and simple design with the execution observer facility.
  - All MIBs rebuilt with pysmi.
  - MIB instrumentation example improved to cover table index building facility.
  - Handle the case of null writer at Debug printer.
  - Do not cache snmpEngineId & snmpAdminString at CommandGenerator to let it be reused with many different snmpEngines.
  - TRAP PDU agent address evaluation at proto.api made lazy to improve startup time.
  - Multiple fixes to verify pyasn1 decoder.decode() return to withstand broken SNMP messages or its components.
  - First attempt made to make some of SNMP Engine settings persistent across reboots.

- Make `config.delTransport()` returning detached transport object. Asyncio examples now use this facility to explicitly shutdown transport object.
- Parts of SMIV1 remnant MIBs (RFC1213-MIB, RFC1158-MIB) added to provide complete compatibility with SMIV1. Symbols defined in these MIBs only present in SMIV1 so they can't be substituted with their SMIV2 analogues.
- `MibBuilder.addMibSources()` convenience method added.
- The `smi.MibBuilder()` will now raise more specific exceptions (`MibLoadError`, `MibNotFoundError`) on MIB loading problems rather than more generic `SmiError`.
- The oneliner's `MibVariable` MIB lookup subsystem redesigned for more generality to mimic `OBJECT-TYPE` macro capabilities related to SNMP PDU handling. The two new classes are `ObjectIdentity` and `ObjectType`. The `ObjectIdentity` class additionally supports just a MIB module name initializer in which case it resolves into either first or last symbol in given MIB. Another option is just a MIB symbol initializer without specifying MIB module. This new subsystem is moved from the scope of oneliner to more common `pysnmp.smi.rfc1903` scope to more naturally invoke it from whatever part of `pysnmp` requires MIB services.
- `MibBuilder` now prepends the contents of environment variables it recognizes (`PYSNMP_MIB_DIR`, `PYSNMP_MIB_DIRS`, `PYSNMP_MIB_PKGS`) rather than using them instead of its default core MIBs.
- Removed `RowStatus` default value as it may collide with possible subclass constraints.
- A few additional MIB tree management methods added to `MibViewController` to better address ordered nature of MIB tree nodes (namely, `getFirst*`, `getLast*` family of methods).
- Wheel distribution format now supported.
- Fix to authoritative engine side `snmpEngineID` discovery procedure: respond with `notInTimeWindows` rather than with `unsupportedSecurityLevel` at time synchronization phase.
- Fix to `rfc1902.Bits` type to make it accepting hex and binary initializers, cope with missing bits identifiers at `prettyPrint()`.
- Memory leak fixed in `CommandForwarder` examples.
- Fix to `BULK CommandGenerator` to use the same `nonRepeaters` OIDs across multiple `GETBULK` iterations so returned table for `nonRepeaters` columns would hold the same var-bind.
- Fix to `CommandGenerator` to make `sendRequestHandle` persistent across multiple iterations of `GETNEXT/GETBULK` queries.
- Fix to `sendNotification()` error handling at `NotificationOriginator`.
- Fix to preserve possible 'fixed length' setting at `rfc1902.OctetString` on `clone()`'ing and `subtype()`'ing.
- Fix to `rfc1902.OctetString` & `Bits` to base them on `OctetString` class to make the 'fixed length' property working.
- Fix to `.clone()` method of `rfc1902.Bits` class to make its signature matching the rest of classes. This may broke code which used to pass

namedValue parameter positionally rather than binding it by name.

-

Fix to PDU translation service (proto.proxy.rfc2576) to make it initializing errorIndex & errorStatus components of the resulting PDU.

- Fix to MsgAndPduDispatcher.sendPdu() to clean up request queue on pysnmp-level processing failure.
- Fix to SNMPv1/v2c message processing subsystem to make it serving unique PDU request-id's in both outgoing and incoming confirmed and response PDU types. Duplicate request-id's in unrelated PDUs may cause cache errors otherwise.
- Fix to licensing terms of multiple twisted backend modules to make the whole pysnmp package licensed under BSD 2-Clause license. This change has been explicitly permitted by the original modules authors.
- Fix to asyncore-based transport not to use asyncore's cheap inheritance from socket object what caused warnings.
- Fix at NotificationOriginator to make is using MibInstrumentationController when expanding Notification OBJECTS into Managed Objects Instances.
- Missing wrongLength and wrongEncoding SMI errors added.
- Fix to file descriptor leak at MibBuilder.
- Fix to rfc2576.v2ToV1() to ignore impossible errorStatus.
- Fix to rfc2576.v1ToV2() to reset ErrorStatus==noSuchName on proxying.
- Fix to smi.builder to explicitly fail on any MIB file access error (but ENOENT) and raise IOError uniformly on any directory/egg access failure.
- Fix to infinite loop at config.delV3User().

Revision 4.2.5, released 2013-10-02

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- License updated to vanilla BSD 2-Clause to ease package use (<http://opensource.org/licenses/BSD-2-Clause>).
- A dozen of lightweight Twisted-based example scripts replaced more complex example implementations used previously.
- SNMP Proxy example apps separated into a larger set of more specialized ones.
- Most of Command Generator examples re-pointed to a live SNMP Agent at [demo.snmplabs.com](http://demo.snmplabs.com) to ease experimentation and adoption.
- Multithreaded oneliner CommandGenerator example added.
- Packet-level SNMP API (pysnmp.proto.api) getErrorIndex() method can now be instructed to ignore portentially malformed errorIndex SNMP packet value what sometimes happens with buggy SNMP implementations.
- Standard SNMP Apps and built-in proxy now ignores malformed errorIndex value.
- Built-in logging now includes timestamps.
- Multi-lingual capabilities of all CommandGenerator & NotificationOriginator apps re-worked and improved. For instance it is now it's possible to run

getBulk() against a SNMPv1 Agent invoking built-in SNMP Proxy behind the scene.

- The \$PYSNMP\_MIB\_DIR & \$PYSNMP\_MIB\_DIRS & \$PYSNMP\_MIB\_PKGS path separator made platform-specific.
- Change to rfc2576.v1tov2() logic: errorStatus = noSuchName is now translated into rfc1905.noSuchObject exception value for \*all\* var-bindings at once. Although RFC2576 does not suggest error-status -> v2c exception translation, historically pysnmp used to perform it for a long time so we can't easily stop doing that.
- Exception re-raising improved at MibInstrumController.flipFlopFsm() and asynsock/twisted dispatchers so that original traceback is preserved.
- A single instance of transport dispatcher can now serve multiple receivers (identified by IDs) chosen by a public data routing method.
- SmpEngine.[un]registerTransportDispatcher() methods now accept optional receiver ID token to be used by transport dispatcher's data router. This allows for multiple SNMP engines registration with a single transport dispatcher.
- Distribute is gone, switched to setuptools completely.
- The snmpCommunityTable row selection improved to follow RFC2576, clause 5.2.1.
- Asyncore-based dispatcher attempts to use poll() whenever available on the platform. It would help handling a really large number (>1024) of file descriptors.
- AsyncCommandGenerator.makeReadVarBinds() generalized into a new makeVarBinds() method which replaces somewhat redundant code at setCmd() and AsyncNotificationOriginator.sendNotification().
- AsyncCommandGenerator.uncfgCmdGen() & AsyncNotificationOriginator.uncfgCmdGen() methods now accept optional authData parameter to remove specific entries from LCD. This can be useful for modifying security parameters for specific securityName.
- SNMP credentials management reworked to separate userName from securityName in snmpCommunityEntry and usmUserEntry tables. Changes made to addV1System(), addV3User() functions as well as to their oneliner's wrappers.
- The contextEngineId parameter of config.addV3User() and auth.UsmUserData() renamed into securityEngineId as it's semantically correct
- Oneliner UsmUserData() and CommunityData() classes now support clone()'ing to facilitate authentication data management in user applications.
- Oneliner transport target classes now support the getTransportInfo() method that returns network addresses used on protocol level.
- Oneliner CommandGenerator.getNext() & .getBulk() methods now support the maxCalls kwarg to limit the maximum number of iterations to perform.
- The config.addSocketTransport() helper renamed into config.addTransport() and improved by automatically instantiating compatible TransportDispatcher making it dispatcher-agnostic. As an additional bonus, application may not call registerTransportDispatcher() as it would be called by addTransport().

- The `SnmpV3MessageProcessingModel.getPeerEngineInfo()` method is implemented to communicate discovered peer SNMP engine information to SNMP apps what can be used for fine `usmUserTable` configuration.
- `AsynNotificationOriginator.cfgCmdGen()` does not take into account `securityModel` & `securityLevel` when reducing LCD access via `addTrapUser()`. This improves LCD consistency on sparse add/del operations but also does not let you to configure different `securityModels` per `securityname` at VACM though the `cfgCmdGen()` wrapper.
- MIB builder traceback formatting and reporting improved.
- SNMP Engine object now has a `snmpEngineID` attribute exposed.
- Fix to `inet_ntop()/inet_pton()` support on Windows at `TRANSPORT-ADDRESS-MIB`.
- Fix to `usmUserSecurityName` table column implementation -- automatic value generation from index value removed.
- Fix and significant logic rework of `snmpCommunityTable` to make it working in both Generator and Responder modes and better follow RFC2576 requirements on sequential entries lookup and selection. As a side effect, untagged `snmpCommunityTable` entries will *not* match tagged `snmpTargetAddrTable` entries and vice versa.
- Fix to Twisted-based `NotificationOriginator` to make it serving INFORMs again.
- Fix to `rfc2576.v1tov2()` logic: `errorStatus = noSuchName` is now translated into `rfc1905.noSuchObject` exception value for *all* var-bindings. Although this is not mentioned in RFC, it looks as a more consistent approach.
- Fix of rounding error to base I/O dispatcher's next timer call calculation.
- Explicit twisted dispatcher's timer resolution (of 1 sec) removed to make use of global default of 0.5 sec.
- Fix to twisted/udp non-default local endpoint binding features. Common socket ('host', port) notation is now supported.
- Fix to Twisted-based transport to make it closing UDP port / UNIX pipe on shutdown.
- Fix to Twisted-based dispatcher not to close transport on unregistration at dispatcher as transports can potentially be reused elsewhere.
- Fix to `asyncore`-based transport to work only with `AsynsockDispatcher`'s socket map and not to touch default `asyncore`'s one. The latter have caused dispatcher/transport restarting issues.
- The `delV3User()` function improved to drop all rows from USM table that were cloned from the target one.
- Fix to exceptions handling at `MsgAndPduDispatcher.sendPdu()` to avoid `sendPduHandle` miss (followed by system crash) on cache expiration run.
- Break cyclic references at `CommandResponder` and `NotificationReceiver` apps through `close()` method.
- Fix to octet string typing at 3DES codec (used to throw an exception).
- Fix to `SnmpAdminString`, `SnmpTagList`, `SnmpTagValue` types to make them supporting UTF-8 initializers.
- Fix to v1/v2c message processing module which used to refer to a bogus `stateReference` in some cases what causes SNMP engine crashes.

- Fix to IPv6 transport to zero ZoneID, FlowID and ScopeID components sometimes coming along with incoming packet.
- Fix to SNMPv1 MP module to pass stateReference to registered app on unconfirmed notifications reception (to let NotificationReceiver Apps browsing request details).  
(transport information at the moment) at SNMP engine.
- Asyncsock sockets now configured with SO\_REUSEADDR option to fix possible Windows error 10048.
- Gracefully handle malformed SnmpEngineID at USM coming from SNMPv3 header.
- Typos fixed in error-status constants at CommandResponder
- Missing import added to oneliner auth module.
- Cosmetic changes to v3arch example scripts.

Revision 4.2.4, released 2013-01-30

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- SNMPv3 high-level and native API examples reworked and extended to cover many use cases.
- The missing functionality of NOTIFICATION-TYPE objects being looked up at local Management Instrumentation and attached to TRAP/INFORM message by Notification Originator is now fully implemented.
- The missing functionality of passing Response PDU contents of INFORM request is now implemented at Notification Originator app. The return value of NotificationOriginator.sendNotification is now a composite object that includes errorStatus, errorIndex and varBinds.
- The missing functionality of passing lookupNames & lookupValues params to Notification Originator is now implemented. It may make sense for INFORMs.
- The missing functionality of passing contextName to oneliner version of NotificationOriginator.sendNotification is now implemented.
- Oneliner example apps now include cases where non-default SNMP ContextEngineId/ContextName/SecurityEngineId is used.
- The contextName parameter of SnmpContext.getMibInstrum made optional.
- AbstractMibInstrumController class added as a base class for all possible kinds of Management Instrumentation controllers.
- Report package version on debugging code initialization.
- MibInstrumController.getMibBuilder() added.
- I/O sockets buffer sizes made configurable, minimum default is now forced to be no less than 2\*\*17 (to fit two huge datagrams).
- Catch possible exceptions on pyasn1 encoder invocation.
- VACM modules converted from a function into an object to let it keep state (caches) in the future.
- Unnecessary MibSource explicit initialization calls removed at MibBuilder.
- Example configuration for Net-SNMP's snmptrapd added.
- Cast additionalVarBinds into ObjectIdentifier type at NotificationOriginator.sendNotification()

- Standard SNMPv3 Apps hardened to catch protocol-related exceptions and report them as errorIndication's.
- Catch and mute possible failure of getsockname(), that seems to happen on Windows only so far.
- Memory leak fixed at oneliner cache of already configured targets.
- Fixes to at AsynNotificationOriginator.sendNotification() to make
  - a) the notificationType param mandatory
  - b) the varBinds param really optional
- Fixes to ContextEngineId/ContextName support at the oneliner API: now both items should be passed to request PDU through Cmd() request initiation method, the items of authData object should be used only for LCD configuration.
- Fix to MibVariable handling of the MIB, <empty-symbol> initializers.
- Fix to outgoing queue processing order at socket transport. Now it's a FIFO discipline rather than LIFO.
- Fix to NotificationOriginator's additionalVarBinds parameter - it is not mandatory anymore with the oneliner API. Also additionalVarBinds defaulted value changed from None to () meaning no var-binds.
- Attempt to convert Windows style EOL into UNIX ones in MIB source modules appeared to be unnecessary and even destructive to modules data in some cases. So the conversion code removed altogether.
- Fix to isAccessAllowed() error handling at NotificationOriginator. System used to crash on access denied condition.
- Fix to NotificationOriginator to make it use system uptime and trap OID values from SNMP engine's instrumentation rather than from SNMP context.
- Fix a couple of bugs at MibTable\* logic involved for table instances creation.
- Fix to Management Instrumentation code to handle cases of non-initialized or not-compliant-to-constraints Managed Objects Instances.
- Fix to Management Instrumentation code to make table row removal through SNMP working again. Wrong method (instumClone) was probed at terminal MIB nodes values instead of the right one (setValue).

Revision 4.2.3, released 2012-09-06

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- SECURITY FIX: USM subsystem did not verify securityLevel of a request to an authoritative SNMP engine against auth/priv protocols configured for the user in question. That allowed unauthenticated/unciphered access to pysnmp-based Agent even if USM user is configured to provide one.
- Oneliner [Asyn]CommandGenerator now supports optional keyword args lookupNames, lookupValues that enable response OID / value looked up at MIB and reported as a MibVariable container object carrying relevant MIB info.
- Oneliner [Asyn]CommandGenerator now supports symbolic MIB object names to be passed within a MibVariable container object which would do a deferred



- MIB lookup for name resolution. This is a new and preferred API which obsoletes the tuple-based one (it is still supported though).
- Oneliner CommandGenerator's class attributes lexicographicMode, maxRows and ignoreNonIncreasingOid moved to optional keyword args of nextGen() and bulkGen() methods.
  - IPv6/UDP and Local Domain Socket transport interfaces added to the oneliner API.
  - Mib Instrumentation subsystem re-worked to replace excessive MibNode's smiCreate()/smiWrite()/smiDestroy() methods with MibScalarInstance's getValue()/setValue()
  - MibTree.readTest[Get]Next() reworked to be called uniformly so user could tap on these methods at any level of the MIB tree.
  - MibTableColumn.getNextNodeWithValue() unpublished API method obsoleted and removed for clarity.
  - Hex dumps of binary parts of the protocol added to ease system operations analysis.
  - SnmpEngineId autogeneration does not call DNS resolver but uses local hostname not to depend upon local IP availability and performance.
  - Example apps reworked, additional SNMPv3 auth/priv protocols and transports added.
  - Package version is now available as \_\_init\_\_.\_\_version\_\_ and it is in-sync with distutils.
  - Package meta-information updated.
  - The \_\_init\_\_.py's made non-empty (rumors are that they may be optimized out by package managers).
  - Multiple fixes to UNIX domain socket transport to make it fully operational again.
  - Use sysUpTime value whenever it is included in Notification PDU, otherwise resort to SNMP engine uptime reading.
  - SNMPv2c Message is now defined in rfc1901.py what matches standard definition.
  - Types defined within SNMPv1/v2c data structures (rfc1157.py/rfc1905.py) moved to module scope to become accessible by wrapper routines (v1.py/v2c.py). This is used for setting strictly typed default values to corresponding SNMP data structures.
  - The obsolete and unpublished MibInstrumController.readVarsFast() method removed for API clarity.
  - MibBuilder now distinguishes case of MIB modules filenames even if underlying OS does not.
  - LCD configuration caching is implemented at pysnmp.entity.rfc3413.config that improves performance of repetitive calls by 10% and might hugely improve NotificationOriginator's performance when working on a large number of targets.
  - A caching maps implemented at rfc2576 subsystem to speed-up communityName to/from securityName resolution. The also makes transport tags processing better compliant to the standard.

- Community and Transport tags processing changed at the oneliner interface to make the whole mechanism more compliant with the standard. Most importantly, it is now possible to tag authentication and transport information separately.
- The `NoSuchInstanceError` exception class is no more inherits from `NoSuchObjectError` to make class hierarchy closer to SNMP specification which states that these errors are separate and independent.
- The `Next & BulkCommandGenerator`'s split onto single-run and iterative implementations. The former just process a single interaction and complete while the latter run as many interactions as user callback function indicates to.
- The `pysnmp.entity.rfc3413.mibvar` module is now obsolete by `pysnmp.entity.rfc3413.oneliner.mibvar` featuring basically the same features but within a stateful, dedicated object.
- Auth & target configuration container classes moved to their separate modules at oneliner API.
- The `notificationType` parameter of `AsynNotificationOriginator.sendNotification` made defaulted to reflect its optional nature.
- `Oneliner UsmUserData`, `UdpTransportTarget`, `Udp6TransportTarget` instances are not hashable anymore as they are intended to act more like a data structure than object.
- Built-in debugger now supports negating debugging categories.
- An `async/getgen.py` example script added.
- Fix to MIB data reading routine to make it working with possible Windows end-of-line's.
- Fix to `CommandGenerator`'s SNMPv3 engine autodiscovery algorithm when `retryCount` is administratively set to 0.
- Fix to `Notification Originator` to make it communicating a single `sendPduHandle` to an application even when multiple INFORMs are triggered and processed by a single call by way of transport tagging feature.
- Fix to `rfc2576:processIncomingMessage()` to take `SecurityModel` into account when lookup up `SecurityName` by `CommunityName`. This allows mixed SNMPv1/v2c communication with the same target.
- Fix to internal `MessageProcessing` and `SecurityModel` timers so they become dependant on system timer resolution.
- Fix to `v1.PDUAPI.setDefaults()` method that used to set wrongly typed time-stamp component.
- Fix to IPv6 address handling to prevent system from crashing whilst running Python3.
- Fix to SNMPv2 exception objects translation into SNMPv1 PDU and NEXT OIDs calculation.
- Fix to `MibTree` class to properly report `noSuchObject` & `noSuchInstance` SNMP special values.
- Fix to `libsmi2pysnmp` tool to make it working again in Python < 2.7
- Fix to exception handling at `decodeMessageVersion()` caller to prevent ASN.1 parsing errors crashing the whole app.

- Fix to GenericTrap type processing at rfc2576:v1Tov2c() which used to crash the whole SNMP engine.
- Fix to [possibly uninizilaized] pyasn1 objects printouts at MibInstrumController.\_\_indexMib()
- Fix to maxSizeResponseScopedPDU calculation at rfc3414/service.py.
- Dedicated 'withmib' example set is obsolete and removed.
- Another SNMP proxy example app added (1to3.py).
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- Fix to MIB modules loading code to make it using \_\_import\_\_() properly. This also makes pysnmp working again with Python 3.3rc0.
- Typo fix to snmpInASNParseErrs MIB instance object.
- Typo fix to errind.EngineIdMismatch class and its instance.

Revision 4.2.2, released 2012-04-21

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- Oneliner CommandGenerator can now limit the number of SNMP table rows returned by nextCmd()/bulkCmd() methods.
- Oneliner CommunityData configuration object can now be initialized with community name only, security name will be chosen automatically.
- Oneliner LCD configuration routines reworked towards clarity. The side-effect of this change is that repetitive oneliner call with the same securityName and different configuration options will only honor the first settings. Previous implementation would override older settings.
- Transport dispatcher now provides its own time expressed in fractions of second. SNMP engine uses this notion of time for handling requests timeout to make packet flow time bound to async I/O core operations rather than to real time.
- The libsmi2pysnmp tool improved to handle incomplete SMI v1->v2 conversion performed by smidump. The remaining core SMIv1 modules excluded from the core MIB set.
- The pyasn1 constraint and enumeration objects put into ASN1-\* MIB modules what appears to be more in-line with SMI. Existing MIB modules as well as libsmi2pysnmp tool corrected accordingly.
- SMIv1 MIB modules (including RFC1155 and RFC1213) were moved to pysnmp-mibs as pysnmp is SMIv2-based.
- The MibBuilder.importSymbols() now takes optional kwargs and push them into MIB modules globals(). This is to facilitate passing user information, such as DB connection handler, to MIB module namespace so it could be used by ManagedObjects implementations.
- When running on Python3, SMI will re-raise exceptions with the original traceback for easier diagnostics.
- Out of PYTHONPATH MIB paths now supported.
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- Added pyasn1 decoder failures diagnostics in debug mode.
- Fix to non-MT-safe class attributes at SNMPv3 MP & SEC modules.
- Fix to ContextName handling in bytes form whilst running Python3. Data mismatch error would return otherwise.

- Fix to SNMPv3 MP peer engine ID discovery not to learn and use user-specified ContextEngineId.
- Fix to socket.error processing at Py3 on Windows.
- Fix to oneliner GETNEXT/GETBULK implementation to properly support ignoreNonIncreasingOIDs option.
- Fix to setEndOfMibError()/setNoSuchInstanceError() at v1 PDU not to lose errorIndex.
- Fix to api.v2c.getVarBindTable() to ignore possible non-rectangular GETBULK response tables.
- Fix to oneliner getnext/getbulk response table rectangulation procedure to gracefully handle an empty column condition.
- Fix to legacy MibBuilder.getMibPath() to prevent it from missing .egg-based components in path.
- Fix to oneliner configuration routine that used to implicitly tag SNMPv1/v2c auth and transport LCD rows what resulted in huge delays when processing incoming messages with large number of peers configured.
- Fix to UDP6 transport handling at rfc2576 security module.
- Fix to SnmpEngineID value autogeneration (used to fail on Mac).
- SNMPv2-SMI.ObjectType.\_\_repr\_\_() fixed to do a repr() on its components.
- All SNMPv2-SMI.MibNode-based objects, once exported to a mibBuilder, will carry an embedded label symbol.
- Explicit repr() calls replaced with '%r'
- Fix to error processing at GETNEXT & GETBULK apps response handlers.
- Fix to libsmi2pysnmp to make it supporting long (256+) list of function params.
- Fix to libsmi2pysnmp to support inheritance of MIB types.

Revision 4.2.1, released 2011-11-07

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- Support string OIDs at one-liner API.
- Code quality of libsmi2pysnmp tool improved, MIBs re-built.
- SNMP-PROXY-MIB & SNMP-USER-BASED-SM-3DES-MIB added
- v1arch bulkgen.py example added
- Major overhaul for Python 2.4 -- 3.2 compatibility:

- + get rid of old-style types
- + drop string module usage
- + switch to rich comparison
- + drop explicit long integer type use
- + map()/filter() replaced with list comprehension
- + apply() replaced with var-args
- + dictionary operations made 2K/3K compatible
- + division operator made 2K/3K compatible
- + sorting function now operates on key
- + iterators returned by some funcs in py3k converted to lists

- + exception syntax made 2K/3K compatible
- + tuple function arguments resolved to scalars to become py3k compatible
- + BER octetstream is now of type bytes (Py3k) or still string (Py2k)

Revision 4.1.16d, released 2011-09-22

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- Fix to SNMPv1 Trap PDU agentAddress setter shortcut method.

Revision 4.1.16c, released 2011-08-14

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- Missing module import fixed in privacy subsystem

Revision 4.1.16b, released 2011-08-13

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- Oneliner CommandGenerator can now optionally ignore non-increasing OIDs.
- Default CommandResponder now skips non-compliant (Counter64) values when responding to a v1 Manager.
- Fix to state information handling at CommandResponder app.
- Fix to Twisted reactor shutdown condition.
- Fix to distutils dependencies syntax.

Revision 4.1.16a, released 2011-03-17

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- Extended Security Options (3DESEDE, AES192, AES256) privacy protocols implemented.
- The error-indication codes moved from literals to objects for reliability and clarity
- Fix to v1.TrapPDUAPI.getVarBinds() to address PDU component at the right position.
- Fix to rfc1902.Bits initialization from named bits sequence.
- Fix to MIB builder by-extension module filtering code to cope with .pyw files.
- Internal caches structure improved.
- Sync versions of oneliner apps split off async implementation for clarity.
- Randomize initial in various numeric sequences.
- MsgAndPduDsp expectResponse parameters passing reworked.
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- GetNext/GetBulk response processing logic moved to getNextVarBinds()
- Changes towards performance improvement:

- + all dict.has\_key() & dict.get() invocations replaced with modern syntax (this breaks compatibility with Python 2.1 and older).
- + introduce the MibInstrumControlle.readVarsFast() method (which skips

- the "testing" phase of MIB value readin) for dealing with internal configuration (LCD).
- + default debug.logger is now just a zero value instead of an object what saves big on frequent calls
- + SNMPv2-SMI columnar indices <-> index values conversion code optimized.
- + pre-compute and re-use some of ASN.1 structures.
- + avoid setting PDU defaults to save on unnecessary initialization.
- + skip ASN.1 types verification where possible.
- + at oneliner Command Generator, avoid looking up pure OID arguments at MIB as it's pointless but takes time.
- + cache MIB columnar objects instance ID <-> symbolic index representation mapping

Revision 4.1.15a,  
released 2010-12-13

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- SNMP Proxy example added.
  - End-of-MIB condition detection reworked what caused backward incompatibility at v1arch GETNEXT API. Previous pysnmp versions used value = None in var-binds as returned by getVarBindTable() API method. This version uses rfc1905 exception values (v2c/v3) or pyasn1 Null (v1).  
Built-in GETNEXT/GETBULK apps now do not require user to track end-of-mib conditions anymore -- this is now done automatically.
  - CommandResponder API now supports async mode of operation.
  - SNMP exception values now exported from rfc1905 module, and made pretty printable.
  - Lexicographic walking mode is now supported at oneliner CommandGenerator.
  - ContextEngineId&ContextName parameters passing implemented at v3arch oneliner API.
  - Multiple instances of the same transport domain now supported.
  - Initial snmpEngineId value generation improved not to accidentally collide within an administrative domain.
  - MibTableColumn instances now build value-to-column-instance map to speedup by-value search.
  - SNMPv2-CONF::AgentCapabilities macro implemented.
  - The libsmi2pysnmp tool handles some more MACROS.
  - Void access control module implemented to let apps disabling [default] VACM.
  - Allow standard SNMP apps to choose access control method to use.
  - Twisted-based CommandResponder example added.
  - Fix/rework of Twisted GETNEXT/BULK CommandGenerator callback API to make it simpler and uniform with other CommandGenerators
  - Fix to SNMPv3 security module to store peer SNMP engine timeline only if taken from an authenticated message. Prior to this fix SNMP engine was not been protected from spoofing.
  - Fix to \$SMIPATH initialization at build-pysnmp-mib.

- Fix to maxSizeResponseScopedPDU calculation.
- Fix to Next/Bulk CommandGenerators to catch a non-increasing OID error condition (what prevents looping).
- Fix to Opaque value tagging at rfc1155.Opaque type.
- Fix to handle (fail gracefully) zero-length user password.
- Fix to SNMP error propagation at Twisted driver (SF tracker ID #3054505).
- Fix to Agent-role snmpEngineId discovery procedure that allows authenticated ReportPDU generation.
- Fix to SNMPv1 PDU handling at CommandResponder & NotificationReceiver apps.
- Fix to CommandResponder app to skip Counter64 SMI values when responding to SNMPv1 Manager.
- Fix to protocol translator code (rfc2576) to handle Counter64 type in v2c-to-v1 PDU translation.
- Fix to non-response var-binds translation in rfc2576.v2ToV1().
- Fix to wrong exceptions used in pysnmp/entity modules.
- Fix to noauth/nopriv security module so that it would not crash SNMP engine if called accidentally.
- Fix to CommandResponder not to return out-of-range errorIndex along with genErr
- Fix to GETBULK CommandResponder to do a by-column MIB walk, not by-raw.
- Fix to getVarBindTable() API function logic.
- Fix to example Manager scripts to use errorIndex when available.
- Fix to dummy encryptData()/decryptData() API
- Fix to oneliner GETBULK table collection code to make it stripping uneven rows off table tail.

Revision 4.1.14a, released 2010-07-15

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- Fix to maxSizeResponseScopedPDU calculation at USM security module: now more precise and robust against screwed values on input.
- Fix to MIB loading logic that used to load same-name modules at distinct search paths on each loadModules() call.
- Fix to AsynsockDispatcher.runDispatcher() to make use of optional non-default select() timeout value.
- AbstractTransportDispatcher now allows user application registering multiple timer callbacks each with dedicated call period.
- Asynsock mainloop default idle period reduced to 0.5 sec for better timer resolution.
- Fix to SNMPv1->SNMPv2c error status handling at proxy module. This defect may have caused an infinite loop on a multiple var-bind SNMPv1 GetNext operation.
- Fix to contextName processing at config.addV1System -- typo rendered passed contextName not committed into LCD.

- Fix to unknown ContextName exception handling at CommandResponder App.
- config.addVacmUser() now accepts an optional contextName what makes it usable for configuring multiple contextName-bound bases of Managed Objects to SnmpEngine.
- MP pending states cache management re-worked so that SNMP engine will now handle an unlimited number of pending request/responses.
- Fix to SNMP discovery procedure: include ContentName in SNMP discovery messaging.
- Many fixes to AES crypto code that makes it actually working.
- Fix to SNMPv2-SMI createUndo operations.
- Fix to INFORM sending error handling at oneliner.
- Fix to mismatched response PDU handling at CommandGenerator application.
- Debug category 'app' (for Application) added to facilitate Standard SNMP Applications debugging.
- The retryCount semantic of CommandGenerator application changed to include sole retries and do not include initial request. Thus, retryCount=1 will now send up to two packets, not just one as it used to be.
- Debugging printout now escapes non-printable characters.

Revision 4.1.13a, released 2010-02-09

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- UDP over IPv6 transport implemented.
- Fix to MIB tree walking code that used to fail on table columns where indices have identical leading parts.
- SNMPv1/v2c snmpCommunityTransportTag-based incoming message filtering implemented (rfc2576).

Revision 4.1.12a, released 2009-12-03

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- API versioning retired (pysnmp.v4 -> pysnmp).
- MIB loading mechanics re-designed to allow ZIP import.
- MIB loader supports code objects (py[co])
- Installer now uses setuptools for package management whenever available.
- The libsmi2pysnmp tool improved to build constraints of more than 256 items (Python has a limit on the number of function params).
- Missing SNMPTrap PDU API implemented at proto.api.v2c, RFC2576 proxy code reworked.
- Fix to sysUpTime OID at SNMPv2 TRAP PDU.

Revision 4.1.11a, released 2009-08-21

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- Twisted integration implemented.
- Attempt to use hashlib whenever available.



- Fix to oneliner Manager code on < Python 2.4.
- Let NotificationReceiver and CommandResponder Apps browsing request details (transport information at the moment) at SNMP engine.
- Fix to config.addV1System() to allow multiple systems to co-exist in LCD.
- Fix to wrongly succeeding user-parameters-by-community-name searching code in rfc2576 processIncomingMsg() method.
- Do sanity checking on PYSNMP\_MODULE\_ID, Groups and Notifications in libsmi2pysnmp (SF bug #2122489).
- Fix to oneliner Notification Originator that sometimes used to send multiple requests at once.
- Oneliners LCD names generation code reworked to avoid accidental clashes.
- Fix and re-work of sysUpTime value management in LCD.
- Fix to pending inform request data caching in mpmmod/rfc2576.py -- previous code led to cache data corruption on multiple outstanding requests.
- In SMI configuration wrapper functions, catch access to non-configured entries and raise an exception.
- Allow multiple callback timer functions in all transport dispatchers.
- Fix to libsmi2pysnmp code to preserve more underscored object names and to guess the right type between indistinguishable ObjectGroup & NotificationGroup
- Fix to MibScalarInstance value setting logic - previous code failed when modifying the same OID multiple times within a single SET operation.
- Minor usability improvements to tools/build-pysnmp-mib.
- Made MIB objects unexport feature operational.

Revision 4.1.10a, released 2008-05-25

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- Internal MIB indexing method \_\_indexMib() unmangled to facilitate setting up mutex there for sharing MIB stuff between threads.
- Fixed broken IpAddress value handling in SET operation.
- Broken MibBuilder.unloadModules() method now works.
- Use getLabel() SMI object method when building MIB tree (in builder.py) in addition to direct attribute access for clearer object protocol.
- The MIB building tools updated to match significantly improved smidump tool (libsmi version > 0.4.5).
- Made libsmi2pysnmp tool optionally building MIB text fields into pysnmp MIB code (enabled by default) and MibBuilder conditionally loading them up (disabled by default).
- SnmpEngine and MsgAndPduDispatcher constructors now optionally take msgAndPduDspr and mibInstrumController class instances respectively to facilitate these objects sharing within a process.
- Unique integers, for various parts of the system, are now generated by a nextid.py module. This fixes possible issues with duplicate request IDs and handlers.
- Built-in MIBs re-generated to include text fields.

Revision 4.1.9a, released 2007-11-28

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- UNSTABLE ALPHA RELEASE.
- At onliner CommandGenerator, close transport on destruction to prevent socket leak. Implicit async transports registration at default asyncore's socket map has been disabled to avoid side effects.
- Fix to rfc2576.v1ToV2c() PDU converter to perform noSuchName error code translation.
- Fixes to Notification PDU conversion code at rfc2576 in part of snmpTrapOID handling.
- Fix to nonRepeaters object use as sequence slicer (must be int) at cmdrsp.CommandResponderApplication
- Make AsynsockDispatcher using its own socket map by default for threading safety. This will break asyncore apps that rely on pysnmp sharing the same socket map with them. A solution would be to either set asyncore map to pysnmp (AsynsockDispatcher.setSocketMap()) or pass pysnmp map (AsynsockDispatcher.getSocketMap()) to asyncore.
- Fix to response timeout roundup bug at CommandGenerator and NotificationOriginator code.
- Oneline configuration classes made hashable to prevent memory leaks when committing them into CommandGenerator/NotificationOriginator internal repository.
- Security information is now released properly in all MP modules. This might fix a significant memory leak.
- Typo fix to rfc3411 confirmed class PDU members.

Revision 4.1.8a, released 2007-08-14

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- UNSTABLE ALPHA RELEASE.
- SMI/dispatcher timeout conversion multiplier is actually 100 (1/100 sec) rather than 1/1000. This fix affects timeouts specified through SMI.
- `__repr__()` implemented for UdpTransportTarget, CommunityData, UsmUserData in onliner module.
- Automatically initialize table index values on table management operations (SF bug ID #1671989).
- Fix to carrier code: ignore BADFD socket error as it may happen upon FD closure on n-1 select() event.
- Fix to MibBuilder.setMibPath() to preserve previously loaded modules intact. Otherwise loadModules() called after setMibPath() might fail with 'MIB file not found in search path' exception.
- Fix to onliner classes that now invoke unconfiguration methods on destruction. This might have caused

memory leaks.

- Automatically initialize SNMP-USER-BASED-SM-MIB::UsmUserSecurityName columnar object instance on creation, as stated in DESCRIPTION (SF tracker ID #1620392).
- Fix to USM timeframe arithmetics (SF bug #1649032).
- VACM shortcuts merged into universal add/delVacmUser() to let notifications and requests to co-exist for the same user.
- At oneliners, build LCD tables keys from a hashed mix of input parameters to make sure these automatic entries won't interfere or exceed constraints on keys values.
- Made use of notificationType parameter of the sendNotification method in NotificationOriginator applications. This parameter used to be ignored in the past. Note, that previously used (and ignored) syntax has been changed in an incompatible way.
- Allow plain Python values in setCmd() and sendNotification() methods in CommandGenerator and NotificationOriginator applications respectively.
- Multi-target oneliner API-based example script added.
- Ignore more socket errors in datagram-type async socket code.
- AES cipher now supported (rfc3826).
- Fix to messed up tagIDs of noSuchInstance and noSuchObject types.
- SET Command Responder fixed to obscure access to non-existing variables by returning notWritable error (SF bug #1764839).
- AsynsockDispatcher.setSocketMap() method added to facilitate pysnmp transport integration into third-party asyncore-based applications.
- Fix to errorIndex generation at CommandResponder application, the value should be a one-based.

Revision 4.1.7a, released 2007-02-19

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- UNSTABLE ALPHA RELEASE.
- Low-level debugging facility implemented.
- Support UdpTransportTarget timeout and retries parameters in oneliner API.
- Fix to snmpTrapOID construction at ...proxy.rfc2576.v1ToV2() function.
- Fix to MibViewController.getNodeName() to take MIB module name into account (SF bug #1505847).
- Do explicit check for Counter32, Unsigned32, TimeTicks, Counter64 value types

in MibTableRow index conversion and in TextualConvention.prettyPrint() methods (SF bug #1506341). Handle Bits in indices as RFC2578 suggests.

- Apply read-create column status to libsmi2pysnmp-generated code whenever MIB text specifies that (SF bug #1508955).
- Honor and apply DISPLAY-HINT specification when building TextualConvention class at libsmi2pysnmp.
- Managed Objects Instances files (smi/mibs/instances/) are now

- double-underscore prefixed to make them imported explicitly by these prefixed names. They used to be imported as a side-effect of Managed Objects files import what is way too hackerish.
- The libsmi2pysnmp now supports future libsmi bugfix that would generate "ranges" subtree along with the legacy and ambiguous "range" one.
  - SMI support for fixed-length string indices implemented (SF bug #1584799, #1653908).
  - Managed Object Instances may now have smiRead, smiWrite, smiCreate methods to support specific value mangling. These methods, if present, would be invoked from SNMP [Agent] core instead of conventional clone() method. The reason is to separate trivial value duplication from specific Instance value mangling that may have Agent-specific side effects (such as RowStatus).
  - MIB table row destruction now works (SF bug #1555010).
  - LCD unconfiguration functions for oneliners implemented (SF bug #1635270).
  - unloadModules() and unexportSymbols() implemented at MibBuilder
  - Notification type PDU proxy code fixed to produce symmetrical conversion.
  - Various SNMP engine-internal caches expiration implemented.
  - SMI-level access control now takes effect only if AC object is passed to MIB instrumentation API.
  - LCD management code now uses generic MIB instrumentation features.
  - Fix to oneliner manager code to have individual UdpSocketTransport instance per each SnmpEngine. Multithreaded apps might fail otherwise. (SF bug ID #1586420).
  - Exclude the PYSNMP\_MODULE\_ID symbol from MIB view index, as it may get resolved into OID label instead of actual MIB object name.
  - Memory leak fixed in indices.OidOrderedDict implementation.
  - Fix to VACM shortcuts to let notifications and requests to co-exist for the same user otherwise.
  - Fix to ...oneliner.cmdgen.UsmUserData to support non-default ciphers.
  - USM now uses local notion of snmpEngineBoots/Time when authoritative and cached estimate otherwise. Also, a security fix applied to to USM time-window verification (SF bug #1649032).
  - Fix to notification objects resolution code at NotificationOriginator.sendNotification()
  - Do not raise securityLevel for USM error reports that lacks user information, as these reports could never be ciphered (SF bug #1624720).
  - Non-default BULK PDU params now actually applied.
  - SnmpEngineID default value generation algorithmic function changed to allow multiple SNMP engines running on the same host.
  - Documentation updated.
  - A handful of minor fixes applied (SourceForge tracker IDs #1537592, #1537600, #1537659, #1548208, #1560939, #1563715, #1575697, #1599220, #1615077, #1615365, #1616579).

Revision 4.1.6a, released 2006-05-25

- 
- UNSTABLE ALPHA RELEASE.
  - pysnmpUsmSecretAuthKey and pysnmpUsmSecretPrivKey length increased up to 256 octets. There seems no limit on this in RFC, though.
  - A workaround for probably broken Agents: SNMPv3 Manager code defaults ContextEngineId to SecurityEngineId whenever ContextEngineId is not reported by authoritative SNMP engine on discovery.
  - Use empty PDU in engine-discovery report at mpmmod/rfc3412.py.
  - MibBuilder.loadModules() now fails on missing MIB files.
  - MibBuilder.exportSymbols() now accepts unnamed objects (likely Managed Objects Instances)
  - SNMPv2-SMI.MibScalarInstance objects now support create\*/destroy\* Management Instrumentation methods to pass Columnar Object creation and removal events. MibTableColumn class invoke these methods accordingly.
  - Fix to AsynNotificationOriginator.asyncSendNotification() callback formal parameters
  - Initial VACM configuration implemented according to rfc3415 Appendix 1
  - tools/buildmibs.sh split-up and re-implemented as tools/build-pysnmp-mib and pysnmp-mibs/tools/rebuild-pysnmp-mibs for better usability. These and libsmi2pysnmp scripts made installable.
  - Types/Notifications/Groups exportSymbols() call chunking implemented in tools/libsmi2pysnmp
  - Initial values specified to pyasn1 types to comply with latest pyasn1 API.
  - Documentation improved
  - Minor fixes towards Python 1.5 compatibility

Revision 4.1.5a, released 2005-11-04

- 
- UNSTABLE ALPHA RELEASE.
  - Multi-lingual SNMP Trap/Inform Applications completed; examples added
  - SMI model re-designed to make a clear separation between Managed Objects and their specification (AKA Agent and Manager side)
  - SNMP SET Application support completed
  - Minor, though backward incompatible, changes to one-liner API
  - Many bugfixes

Revision 4.1.4a,  
released 2005-08-16

- 
- UNSTABLE ALPHA RELEASE.
  - SHA-based authentication fixed and privacy implemented
  - ...oneline.cmdgen.UsmUserData constructor now takes

authProtocol and privProtocol parameters in a backward incompatible manner.

Revision 4.1.3a, released 2005-07-28

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- UNSTABLE ALPHA RELEASE.
- rfc3413 applications API changes (related to callback function behaviour).
- TransportDispatcher now provides "jobs" interface to clients for better control of dispatcher's execution.
- Many minor fixes.

Revision 4.1.2a, released 2005-07-12

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- UNSTABLE ALPHA RELEASE.
- Top-level application classes renamed into longer, self describing names for clarity.
- CommandResponder & NotificationOriginator applications now uses stand-alone SnmpContext for application registration.
- Many minor fixes (inspired by testing on WinXP)

Revision 4.1.1a, released 2005-06-29

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- 
- UNSTABLE ALPHA RELEASE.
- SNMPv3 code first published
- SNMP engine and applications implemented on library level
- Major re-design towards SNMPv3-style API.

Revision 4.0.2a, released 2005-03-01

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- Adopted to slightly changed asyncore API (as shipped with python 2,4)

Revision 4.0.1a, released 2004-11-18

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- Minor bug/typo fixes, mostly in example/ scripts.

Revision 4.0.0a, released 2004-11-15

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- UNSTABLE EARLY ALPHA RELEASE.
- Major re-design and re-implementation.
- Rudimental API versioning implemented to let incompatible package

branches to co-exist within the same Python installation.

- SMI framework designed and implemented. This framework provides
  - 1) various access to MIB data 2) a way to implement custom MIB instrumentation objects. There's also a tool for building SMI classes from libsmi(3) output (smidump -f python).
- ASN.1 subtyping machinery implemented. Now dynamic ASN.1 instances subtyping and quering becomes available. Previously, this has been done through Python classes inheritance what proved to be a wrong concept.
- ASN.1 codecs framework re-designed and re-implemented aimed at a more consistent design and better performance. Highlights include abstract codec interface and serialized data caching (at encoder).
- Asn1Item constraints machinery re-implemented based on Mike C. Fletcher's design and code. Now various constrains are implemented as stand-alone objects serving interested Asn1Object derivatives through some abstract protocol (that's probably the Decorator design pattern).
- ASN.1 tagging facility re-implemented along the client-server design pattern. Besides this seems to be a more appropriate design, it allows an easier way for dynamic subtyping.

Found in path(s):

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/CHANGES.txt

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if mibBuilder.loadTexts: snmpUsmHmacSha2MIB.setDescription("Definitions of Object Identities needed for the use of HMAC-SHA2 Authentication Protocols by SNMP's User-based Security Model. Copyright (c) 2016 IETF Trust and the persons identified as authors of the code. All rights reserved. Redistribution and use in source and binary forms, with or without modification, is permitted pursuant to, and subject to the license terms contained in, the Simplified BSD License set forth in Section 4.c of the IETF Trust's Legal Provisions Relating to IETF Documents (<http://trustee.ietf.org/license-info>).")

Found in path(s):

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## 1.41 python-scandir 1.10.0

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/\*

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.

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Mark Lord (mlord@pobox.com)

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## 1.73 zope-interface 6.0

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

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///

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///

```
[#mpl]
# MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
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```

The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

It's also possible to only enable support for `mp_list` by including `<boost/mp11/mpl_list.hpp>`, and for `std::tuple` by including `<boost/mp11/mpl_tuple.hpp>`. This may be required because some libraries, such as Boost.Fusion, contain their own MPL support for `std::tuple`, which conflicts with Mp11's one.

.Converting an existing MPL Sequence into an mp\_list

...

```
using L = mpl::copy<Sequence, mpl::back_inserter<mp11::mp_list<>>>::type;
```

...

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<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
  <title>Copyright Test</title>
  <articleinfo>
    <copyright>
      <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
    </copyright>
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      <year>2018</year> <holder>Joe Blow, John Coe</holder>
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    </copyright>
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</article>
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-----



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```
/*           ZeusBench V1.01  
=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)  
Michael Campanella (campanella@stevms.enet.dec.com)

```
*/  
<?xml version="1.0" encoding="UTF-8"?>  
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">  
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>  
<meta content="text/html; charset=UTF-8" http-equiv="Content-Type" />  
<!--  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

X

This file is generated from xml source: DO NOT EDIT

XX

X

```
-->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="/style/css/prettify.css"
/>
<script src="/style/scripts/prettify.min.js" type="text/javascript">
</script>

<link href="/images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"><a href="/"></a></div>
<div id="path">
<a href="http://www.apache.org/">Apache</a> &gt; <a href="http://httpd.apache.org/">HTTP Server</a> &gt; <a
href="http://httpd.apache.org/docs/">Documentation</a> &gt; <a href="/">Version 2.4</a></div><div id="page-
content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
<div class="topleng">
<p><span>Available
Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>
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</div>

<div class="bottomlang">

<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>

</div><div class="top"><a href="#page-header"></a></div><div

class="section"><h2><a id="comments\_section" name="comments\_section">Comments</a></h2><div

class="warning"><strong>Notice:</strong><br

<script type="text/javascript"><!--<!--<![CDATA[</><!--

var comments\_shortcode = 'httpd';

var comments\_identifier = 'http://httpd.apache.org/docs/2.4/license.html';

(function(w, d) {

if (w.location.hostname.toLowerCase() == "httpd.apache.org") {

d.write('<div id="comments\_thread"></div>');

var s = d.createElement('script');

s.type = 'text/javascript';

s.async = true;

s.src = 'https://comments.apache.org/show\_comments.lua?site=' + comments\_shortcode + '&page=' +

comments\_identifier;

(d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);

}

else {

d.write('<div id="comments\_thread">Comments are disabled for this page at the moment.</div>');

}

})(window, document);

</script></div><div id="footer">

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prettyPrint();

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Version 3, 29 June 2007

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## 1.80 erlang-otp 25.0.3

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

## THE BASIC LIBRARY FUNCTIONS

-----

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Email domain: cam.ac.uk

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## PCRE JUST-IN-TIME COMPILATION SUPPORT

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[Misc C library code]

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[zlib]

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.3, July 18th, 2005

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

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

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[fp16]

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[dialyzer]

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[edoc,

  syntax\_tools]

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[leex]

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## THE C++ WRAPPER FUNCTIONS

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# 1.81 libconfig 1.7.3

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

```
{description}  
Copyright (C) {year} {fullname}
```

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

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

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

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

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

{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

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

Upstream-Name: ls-config

Source: <https://github.com/lucas-net-pl/ls-config>

Files: \*

Copyright: 2013 ukasz A. Grabowski <[www@lucas.net.pl](mailto:www@lucas.net.pl)>

License: GPL-2.0+

Files: debian/\*

Copyright: 2013 ukasz A. Grabowski <[www@lucas.net.pl](mailto:www@lucas.net.pl)>

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.

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

# Please also look if there are files or directories which have a  
# different copyright/license attached and list them here.  
# Please avoid to pick license terms that are more restrictive than the  
# packaged work, as it may make Debian's contributions unacceptable upstream.

@c \input texinfo.tex @c -\*-texinfo-\*-

@c

@c %\*\*start of header

@c All text is ignored before the setfilename.

@setfilename LGPL.info

@center GNU LESSER GENERAL PUBLIC LICENSE

@center Version 2.1, February 1999



@sp 1

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59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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@center Preamble

@sp 1

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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

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

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete

object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

For example, on rare occasions, there may be a special need to encourage

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library" and a ``work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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@center GNU LESSER GENERAL PUBLIC LICENSE

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@item

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

The ``Library", below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library" means either the Library or any derivative work under copyright law:

that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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The modified work must itself be a software library.

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You must cause the files modified to carry prominent notices stating

that you changed the  
files and the date of any change.

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

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

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

@end enumerate

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

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

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

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

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

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

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You may copy and distribute the Library (or a portion or derivative of it, under Section 2)

in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

@end enumerate

For an executable, the required form of the ``work that uses the Library'' must include any data and utility programs needed for reproducing the executable from

it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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



and the Library together in an executable that you distribute.

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

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

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

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@end enumerate

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@center END OF TERMS AND CONDITIONS

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@center How to Apply These Terms to Your New Libraries

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@format

@t{

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

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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

```
You should have received a copy of the GNU Lesser
General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
}
@end format
```

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

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

```
@format
@t{
Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
}
@end format
```

That's all there is to it!

```
@c @bye
```

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts  
as the successor of the GNU Library Public License, version 2, hence  
the version number 2.1.]

Preamble

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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

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

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

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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## 1.82 glib 2.75.3

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for

the work may be a derivative

work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs

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Version 2.1, February 1999

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

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

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## 1.85 python-webpy 0.62

### 1.85.1 Available under license :

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```
license="Public domain",  
"License :: Public Domain",
```

Found in path(s):

```
* /opt/cola/permits/1643795686_1684244905.9885206/0/web-py-0-62-tar-gz/web.py-0.62/setup.py
```

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```
__license__ = "public domain"
```

Found in path(s):

```
* /opt/cola/permits/1643795686_1684244905.9885206/0/web-py-0-62-tar-gz/web.py-0.62/web/__init__.py
```

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```
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Found in path(s):

```
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```

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from <<http://lfw.org/python/Itpl.py>> (public domain, Ka-Ping Yee)

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Found in path(s):

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Metadata-Version: 2.1

Name: web.py

Version: 0.62

Summary: web.py: makes web apps

Home-page: <http://webpy.org/>

Author: Aaron Swartz

Author-email: [me@aaronsw.com](mailto:me@aaronsw.com)

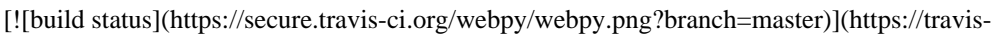

Maintainer: Anand Chitipothu



Maintainer-email: [anandology@gmail.com](mailto:anandology@gmail.com)

License: Public domain

Description: web.py is a web framework for Python that is as simple as it is powerful.

Visit <http://webpy.org/> for more information.

 <https://secure.travis-ci.org/webpy/webpy.png?branch=master>  <https://travis-ci.org/webpy/webpy>

 <https://codecov.io/gh/webpy/webpy/branch/master/graphs/badge.svg?style=flat>  <https://codecov.io/gh/webpy/webpy>

The latest stable release `0.62` only supports Python  $\geq 3.5$ .

To install it, please run:

```
...  
# For Python 3  
python3 -m pip install web.py==0.62  
...
```

If you are still using Python

2.7, then please use web.py version 0.51

which is intended to be our last release that supports Python 2.

```
...  
# For Python 2.7  
python2 -m pip install web.py==0.51  
...
```

You can also download it from [\[GitHub Releases\]\(https://github.com/webpy/webpy/releases\)](https://github.com/webpy/webpy/releases) page, then install it manually:

```
...  
unzip webpy-0.62.zip  
cd webpy-0.62/  
python3 setup.py install  
...
```

Note: `0.5x` (e.g. 0.50, 0.51) are our last releases which support Python 2.

Note: `0.6x` (e.g. 0.60, 0.61, 0.62) are our last releases which support Python 3.5.

Platform: any  
Classifier: License :: Public Domain  
Classifier: Programming Language :: Python  
Classifier: Programming Language :: Python :: 3  
Classifier: Programming Language :: Python :: 3.5  
Classifier: Programming Language :: Python :: 3.6  
Classifier: Programming Language :: Python :: 3.7  
Classifier: Programming Language :: Python :: 3.8  
Classifier:  
Programming Language :: Python :: 3.9  
Requires-Python: >=3.5  
Description-Content-Type: text/markdown

Found in path(s):

\* /opt/cola/permits/1643795686\_1684244905.9885206/0/web-py-0-62-tar-gz/web.py-0.62/PKG-INFO  
\* /opt/cola/permits/1643795686\_1684244905.9885206/0/web-py-0-62-tar-gz/web.py-0.62/web.py.egg-info/PKG-INFO

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Found in path(s):

\* /opt/cola/permits/1643795686\_1684244905.9885206/0/web-py-0-62-tar-gz/web.py-0.62/web/template.py

## 1.86 iptables 1.8.9

### 1.86.1 Available under license :

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Version 2, June 1991

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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## 1.88 gobject-introspection 1.60.0

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

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If the program is interactive, make it output a short notice like this

when it starts in an interactive mode:

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

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

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

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

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

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gobject-introspection has two licenses; one for the typelib library, and one for the tools.

\* The typelib libraries (gobject-introspection/) are licensed under the LGPLv2+. See the file COPYING.LGPL.

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In general where applicable files should have headers denoting their license status; if they do not, please file a bug at <https://gitlab.gnome.org/GNOME/gobject-introspection/issues>.

## 1.89 pyasn1 0.5.0

## 1.89.1 Available under license :

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

```
[metadata]
name = pyasn1
version = attr: pyasn1.__version__
description = Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
long_description = file: README.md
long_description_content_type = text/markdown
license = BSD-2-Clause
license_files = LICENSE.rst
url = https://github.com/pyasn1/pyasn1
author = Ilya Etingof
author_email = etingof@gmail.com
maintainer = pyasn1 maintenance organization
maintainer_email = Christian Heimes <christian@python.org>
project_urls =
    Documentation=https://pyasn1.readthedocs.io
    Source=https://github.com/pyasn1/pyasn1
    Issues=https://github.com/pyasn1/pyasn1/issues
    Changelog=https://pyasn1.readthedocs.io/en/latest/changelog.html
platforms = any
classifiers =
    Development Status :: 5 - Production/Stable
    Environment :: Console
    Intended Audience :: Developers
    Intended Audience :: Education
    Intended Audience :: Information Technology
    Intended Audience :: System
    Administrators
    Intended Audience :: Telecommunications Industry
    License :: OSI Approved :: BSD License
    Natural Language :: English
    Operating System :: OS Independent
    Programming Language :: Python :: 2
    Programming Language :: Python :: 2.7
    Programming Language :: Python :: 3
    Programming Language :: Python :: 3.6
    Programming Language :: Python :: 3.7
    Programming Language :: Python :: 3.8
    Programming Language :: Python :: 3.9
    Programming Language :: Python :: 3.10
    Programming Language :: Python :: 3.11
    Programming Language :: Python :: Implementation :: CPython
    Programming Language :: Python :: Implementation :: PyPy
    Topic :: Communications
    Topic :: Software Development :: Libraries :: Python Modules
```

```
[options]
python_requires = >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*, !=3.5.*
zip_safe = True
setup_requires = setuptools
packages =
  pyasn1
  pyasn1.type
  pyasn1.compat
  pyasn1.codec
  pyasn1.codec.ber
  pyasn1.codec.cer
  pyasn1.codec.der
  pyasn1.codec.native
```

```
[bdist_wheel]
universal
= 1
```

```
[egg_info]
tag_build =
tag_date = 0
```

Found in path(s):

\* /opt/cola/permits/1646745104\_1682526286.3746493/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/setup.cfg

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ASN.1 library for Python

-----

```
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[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)
[![Build
status](https://github.com/pyasn1/pyasn1/actions/workflows/main.yml/badge.svg)](https://github.com/pyasn1/pyasn1/actions/workflows/main.yml)
[![Coverage
Status](https://img.shields.io/codecov/c/github/pyasn1/pyasn1.svg)](https://codecov.io/github/pyasn1/pyasn1)
[![GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)](https://raw.githubusercontent.com/pyasn1/pyasn1/master/LICENSE.txt)
```

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

**\*\*NOTE:\*\***

The package is now maintained by *\*Christian Heimes\** and *\*Simon Pichugin\** in project <https://github.com/pyasn1/pyasn1>.

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- \* Generic implementation of ASN.1 types (X.208)
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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.

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With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

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```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)
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>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...
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```

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:

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

...

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](<https://pyasn1.readthedocs.io/en/latest/pyasn1/contents.html>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/pyasn1/pyasn1-modules>).

How to get pyasn1

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If something does not work as expected, [open an issue](<https://github.com/epyasn1/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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Found in path(s):

\* /opt/cola/permits/1646745104\_1682526286.3746493/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/README.md  
No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1

Name: pyasn1

Version: 0.5.0

Summary: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)

Home-page: <https://github.com/pyasn1/pyasn1>

Author: Ilya Etingof

Author-email: [etingof@gmail.com](mailto:etingof@gmail.com)

Maintainer: pyasn1 maintenance organization

Maintainer-email: Christian Heimes <[christian@python.org](mailto:christian@python.org)>

License: BSD-2-Clause

Project-URL: Documentation, <https://pyasn1.readthedocs.io>

Project-URL: Source, <https://github.com/pyasn1/pyasn1>  
Project-URL: Issues, <https://github.com/pyasn1/pyasn1/issues>  
Project-URL: Changelog, <https://pyasn1.readthedocs.io/en/latest/changelog.html>  
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  
Classifier: Natural Language :: English  
Classifier: Operating System :: OS Independent  
Classifier: Programming Language :: Python :: 2  
Classifier: Programming Language :: Python :: 2.7  
Classifier: Programming Language :: Python :: 3  
Classifier: Programming Language :: Python :: 3.6  
Classifier: Programming Language :: Python :: 3.7  
Classifier: Programming Language :: Python :: 3.8  
Classifier: Programming Language :: Python :: 3.9  
Classifier: Programming Language :: Python :: 3.10  
Classifier: Programming Language :: Python :: 3.11  
Classifier: Programming Language :: Python :: Implementation :: CPython  
Classifier: Programming Language :: Python :: Implementation :: PyPy  
Classifier: Topic :: Communications  
Classifier: Topic :: Software Development :: Libraries :: Python Modules  
Requires-Python: !=3.0.\*,!=3.1.\*,!=3.2.\*,!=3.3.\*,!=3.4.\*,!=3.5.\*,>=2.7  
Description-Content-Type: text/markdown  
License-File:  
LICENSE.rst

ASN.1 library for Python

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[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)  
[![Build  
status](https://github.com/pyasn1/pyasn1/actions/workflows/main.yml/badge.svg)](https://github.com/pyasn1/pyasn1/actions/workflows/main.yml)  
[![Coverage  
Status](https://img.shields.io/codecov/c/github/pyasn1/pyasn1.svg)](https://codecov.io/github/pyasn1/pyasn1)  
[![GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)](https://raw.githubusercontent.com/pyasn1/pyasn1/master/LICENSE.txt)

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Found in path(s):

```
* /opt/cola/permits/1646745104_1682526286.3746493/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/PKG-INFO
* /opt/cola/permits/1646745104_1682526286.3746493/0/pyasn1-0-5-0-tar-gz/pyasn1-0.5.0/pyasn1.egg-info/PKG-INFO
```

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.. \_license:

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ASN.1 library for Python

=====

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Abstract Syntax Notation One (ASN.1

<[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1x](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 it was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

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

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

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

- \* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- \* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- \* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

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

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

ASN.1 gotchas

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

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

Documentation

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.. 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.

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/changelog

## License

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/license

## Getting help

-----

Please, file your `issues` <<https://github.com/pyasn1/pyasn1/issues>>`\_` and `PRs` <<https://github.com/pyasn1/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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# 1.90 zope-component 6.0

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## 1.91 bash 5.2.15

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```
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## 1.94 deprecated 1.2.14

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%global srcname Deprecated

%global pkgname deprecated

Name: python-%{pkgname}

Version: 1.2.14

Release: 1%{?dist}

Summary: Python decorator to deprecate old python classes, functions or methods

License: MIT

URL: <https://github.com/tantale/%{pkgname}>

Source0: %{pypi\_source}

BuildArch: noarch

%description

Python @deprecated decorator to deprecate old python classes, functions or methods.

%package -n python3-%{pkgname}

Summary: %{summary}

BuildRequires: python3-devel

BuildRequires: python3-setuptools

%{?python\_provide:%python\_provide python3-%{pkgname}}

%description -n python3-%{pkgname}

Python @deprecated decorator to deprecate old python classes, functions or methods.

%prep

%autosetup -n %{srcname}-%{version}

rm -rf %{pkgname}.egg-info

%build

%py3\_build

%install

%py3\_install

%files -n python3-%{pkgname}

%license LICENSE.rst

%doc README.md

%{python3\_sitelib}/%{pkgname}/

%{python3\_sitelib}/%{srcname}-%\*.egg-info/

%changelog

\*

Fri Jul 26 2019 Petr Hracek <phracek@redhat.com> - 1.2.6-2

- Fix python3\_sitelib issue

\* Fri Jul 26 2019 Petr Hracek <phracek@redhat.com> - 1.2.6-1

- Initial package

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\* /opt/cola/permits/1698722108\_1685260063.1717935/0/tantale-deprecated-v1-2-14-0-g378636d-tar-gz/tantale-deprecated-378636d/python-deprecated.spec

# 1.95 ncurses 6.4-20230408

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Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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

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-- \$Id: COPYING,v 1.12 2023/01/07 17:55:53 tom Exp \$  
Upstream source <https://invisible-island.net/ncurses/Ada95.html>

Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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## 1.101 libxml2 2.11.4

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## 1.102 libnettle6 3.9

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# 1.103 strace 6.3

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## 1.104 popt 1.19

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```

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## 1.113 click 8.1.6

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```
.. _contrib:
```

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

As the number of users of Click grows, more and more major feature requests are made. To users it may seem reasonable to include those features with Click; however, many of them are experimental or aren't practical to support generically. Maintainers have to choose what is reasonable to maintain in Click core.

The click-contrib\_ GitHub organization exists as a place to collect third-party packages that extend Click's features. It is also meant to ease the effort of searching for such extensions.

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

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

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```
* /opt/cola/permits/1747782989_1689727449.1414876/0/pallets-click-8-1-6-0-g3793f5b-tar-gz/pallets-click-79186a0/docs/contrib.rst
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In the interest of fostering an open and welcoming environment, we as contributors and maintainers pledge to making participation in our project and our community a harassment-free experience for everyone, regardless of age, body size, disability, ethnicity, sex characteristics, gender identity and expression, level of experience, education, socio-economic status, nationality, personal appearance, race, religion, or sexual identity and orientation.

### ## Our Standards

Examples of behavior that contributes to creating a positive environment include:

- \* Using welcoming and inclusive language
- \* Being respectful of differing viewpoints and experiences
- \* Gracefully accepting constructive criticism
- \* Focusing on what is best for the community
- \* Showing empathy towards other community members

Examples of unacceptable behavior by participants include:

- \* The use of sexualized language or imagery and unwelcome sexual attention or advances
- \* Trolling, insulting/derogatory comments, and personal or political attacks
- \* Public or private harassment
- \* Publishing others' private information, such as a physical or electronic address, without explicit permission
- \* Other conduct which could reasonably be considered inappropriate in a professional setting

### ## Our Responsibilities

Project maintainers are responsible for clarifying the standards of acceptable behavior and are expected to take appropriate and fair corrective action in response to any instances of unacceptable behavior.

Project maintainers have the right and responsibility to remove, edit, or reject comments, commits, code, wiki edits, issues, and other contributions that are not aligned to this Code of Conduct, or to ban temporarily or permanently any contributor for other behaviors that they deem inappropriate, threatening, offensive, or harmful.

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# 1.114 open-ldap 2.6.5

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`@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION`

`@enumerate 0`

`@item`

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

The ``Library", below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it,

either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification".)

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

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

@item

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

@item

You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and

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@enumerate a

@item

The modified work must itself be a software library.

@item

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

@item

You must

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

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

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

@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections

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

collective works based on the Library.

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

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

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

@item

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

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

@item

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

However, linking a ``work that uses the Library'' with the Library

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

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

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

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

@item

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

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

@enumerate a

@item

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under

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

@item

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

@item

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

@item

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

@item

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

@end enumerate

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot

use both them and the Library together in an executable that you distribute.

@item

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@enumerate a

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@item

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

@end enumerate

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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

@smallexample

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

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@end

smallexample

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

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer" for the library, if

necessary. Here is a sample; alter the names:

```
@smallexample
```

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

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

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

```
@end smallexample
```

That's all there is to it!

This subpackage is under the GPL, see file COPYING in the toplevel directory.

The libasprintf package is under the LGPL, see file COPYING.LIB.

```
@c The GNU General Public License.
```

```
@center Version 2, June 1991
```

```
@c This file is intended to be included within another document,
```

```
@c hence no sectioning command or @node.
```

```
@display
```

```
Copyright @copyright{ } 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
```

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of this license document, but changing it is not allowed.

```
@end display
```

```
@heading Preamble
```

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running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program).  
Whether that is true depends on what the Program does.

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@enumerate a

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

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You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

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If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

@end enumerate

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

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

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Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

@item

Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such

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@end enumerate

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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@ifinfo

@center

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@end iftex

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@page

@heading Appendix: How to Apply These Terms to Your New Programs

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

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

@smallexample

@var{one line to give the program's name  
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@end smallexample

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

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

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

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- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

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Version 2.1, February 1999

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and valid for as

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```
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under certain conditions; type `show c' for details.
```

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## 1.119 xerces-c 3.2.4

### 1.119.1 Available under license :

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

```
/* file   : xercesc/util/Xerces_autoconf_config.hpp -*- C -*-
* license : Apache License 2.0; see accompanying LICENSE file
*/
```

Found in path(s):

```
* /opt/cola/permits/1751893110_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-gz/build2-packaging-xerces-c-df320e3/libxerces-c/xercesc/util/Xerces_autoconf_config.hpp
```

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

```
# file   : xercesc/buildfile
# license : Apache License 2.0; see accompanying LICENSE file
```

```
network = $config.libxerces_c.network
```

```
# Note that the installed util/NetAccessors/Curl/CurlURLInputStream.hpp
# includes the libcurl headers.
#
```

```

if $network
import intf_libs = libcurl%lib{curl}

import impl_libs = libicuuc%lib{icuuc}
import impl_libs += libicui18n%lib{icui18n}

lib{xerces-c}: {h      }{config} \
    {hxx txx cxx}{** -util/FileManagers/** \
        -util/NetAccessors/** \
        -util/XercesVersion} \
    {hxx      }{ util/XercesVersion}

tclass = $cxx.target.class
tsys = $cxx.target.system

windows = ($tclass == 'windows')

lib{xerces-c}: {h  c}{stricmp strnicmp} \
util/FileManagers/{hxx cxx}{PosixFileMgr  }: include = (!$windows)

lib{xerces-c}: util/FileManagers/{hxx
cxx}{WindowsFileMgr}: include = $windows

lib{xerces-c}: util/NetAccessors/Curl/{hxx cxx}{*}: include = $network

lib{xerces-c}: $intf_libs $impl_libs

# Include the generated version header into the distribution (so that we
# don't pick up an installed one) and don't remove it when cleaning in src (so
# that clean results in a state identical to distributed).
#
util/hxx{XercesVersion}: util/in{XercesVersion} $src_root/manifest
{
dist = true
clean = ($src_root != $out_root)

in.symbol = '@'

XERCES_VERSION_MAJOR = "$version.major"
XERCES_VERSION_MINOR = "$version.minor"
XERCES_VERSION_REVISION = "$version.patch"

XERCES_GRAMMAR_SERIALIZATION_LEVEL = "$grammar_serialization_level"
}

# Build options.
#
if $network

```

```

cc.poptions += -DXERCES_USE_NETACCESSOR_CURL=1

cc.poptions += -DXERCES_BUILDING_LIBRARY -DHAVE_CONFIG_H -D_THREAD_SAFE

if $windows
cc.poptions += -DWIN32 -D_WINDOWS -D_MBCS

# Note that we need to add "-I$src_root" for the headers auto-generating
#
# machinery to work properly.
#
cc.poptions += "-I$out_root" "-I$src_root" "-I$src_base"

obja[*]: cxx.poptions += -DLIBXERCES_C_STATIC_BUILD
objb[*]: cxx.poptions += -DLIBXERCES_C_SHARED_BUILD

switch $c.class
{
case 'gcc'
{
# Disable warnings that pop up with -Wall -Wextra. Upstream doesn't seem
# to care about these and it is not easy to disable specific warnings in a
# way that works across compilers/version (some -Wno-* options are only
# recognized in newer versions). There are still some warnings left that
# appear for certain platforms/compilers. We pass them through but disable
# treating them as errors.
#
cc.coptions += -Wno-all -Wno-extra -Wno-error

# Disable the Clang targeting MSVC warnings.
#
if ($c.id == 'clang' && $tsys == 'win32-msvc')
cc.coptions += -Wno-deprecated-declarations
}
case 'msvc'
{
# Disable warnings that pop up with /W3.
#
cc.coptions += /wd4244 /wd4267 /wd4996 /wd4305
}
}

switch
$class, $tsys
{
case 'windows', 'mingw32'
{
# Make sure all symbols are resolvable.

```



```

#
cxx.loptions += -Wl,--no-undefined

cxx.libs += -lws2_32
}
case 'windows'
{
# Suppress the 'object file does not define any public symbols' warning.
#
cxx.aoptions += /IGNORE:4221

cxx.libs += ws2_32.lib
}
case 'linux'
{
# Make sure all symbols are resolvable.
#
cxx.loptions += -Wl,--no-undefined

cxx.libs += -lm -pthread
}
default
{
cxx.libs += -pthread
}
}

# Export options.
#
lib{xerces-c}:
{
cxx.export.poptions = "-I$out_root" "-I$src_root"
cxx.export.libs = $intf_libs
}

liba{xerces-c}: cxx.export.poptions += -DLIBXERCES_C_STATIC
libs{xerces-c}: cxx.export.poptions += -DLIBXERCES_C_SHARED

# See bootstrap.build for details.
#
if $version.pre_release
lib{xerces-c}: bin.lib.version = @"-$version.project_id"
else
lib{xerces-c}: bin.lib.version = @"-$abi_version"

# Don't install the implementation details C headers
# (config.h and the
# compatibility function declarations).

```

```

#
h{*}: install = false

# Install the C++ headers into the xercesc/ subdirectory of, say, /usr/include/
# recreating subdirectories.
#
{hxx txx}{*}:
{
install      = include/xercesc/
install.subdirs = true
}

Found in path(s):
* /opt/cola/permits/1751893110_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-
gz/build2-packaging-xerces-c-df320e3/libxerces-c/xercesc/buildfile
No license file was found, but licenses were detected in source scan.

# file      : tests/buildfile
# license   : Apache License 2.0; see accompanying LICENSE file

./: {*/ -build/ -net-accessor/}

./: net-accessor/: include = $config.libxerces_c.network

Found in path(s):
* /opt/cola/permits/1751893110_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-
gz/build2-packaging-xerces-c-df320e3/libxerces-c/tests/buildfile
No license file was found, but licenses were detected in source scan.

# file      : tests/sax2-print/testscript
# license   : Apache License 2.0; see accompanying LICENSE file

: utf8
:
{
cat <<EOI >=f;
<?xml version="1.0" encoding="UTF-8"?>
<msg>
Mittleuropäische catégorie
</msg>
EOI

$* -x=UTF-8 f >>:EOO
<?xml version="1.0" encoding="UTF-8"?>
<msg>
Mittleuropäische catégorie
</msg>
EOO

```

```
}
```

Found in path(s):

```
* /opt/cola/permits/1751893110_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-gz/build2-packaging-xerces-c-df320e3/libxerces-c/tests/sax2-print/testscript
```

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

```
# file : tests/sax2-print/buildfile
```

```
# license : Apache License 2.0; see accompanying LICENSE file
```

```
import libs = libxerces-c%lib{xerces-c}
```

```
exe{driver}: SAX2Print/{hxx cxx}{*} $libs testscript
```

Found in path(s):

```
* /opt/cola/permits/1751893110_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-gz/build2-packaging-xerces-c-df320e3/libxerces-c/tests/sax2-print/buildfile
```

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

```
# file : tests/build/bootstrap.build
```

```
# license : Apache License 2.0; see accompanying LICENSE file
```

```
project = # Unnamed subproject.
```

```
using config
```

```
using dist
```

```
using test
```

Found in path(s):

```
* /opt/cola/permits/1751893110_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-gz/build2-packaging-xerces-c-df320e3/libxerces-c/tests/build/bootstrap.build
```

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

```
# file : tests/psvi-writer/testscript
```

```
# license : Apache License 2.0; see accompanying LICENSE file
```

```
: utf8
```

```
:
```

```
{
```

```
cat <<EOI >=f;
```

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<msg>
```

```
    Mittleuropäische catégorie
```

```
</msg>
```

```
EOI
```

```
$(f >>~%EOO%
```

```
%.+
```

```
%\s*<textContent>%
%\s*Mitteleuropäische catégorie%
%\s*</textContent>%
%.+
EEO
}
```

Found in path(s):

```
* /opt/cola/permits/1751893110_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-gz/build2-packaging-xerces-c-df320e3/libxerces-c/tests/psvi-writer/testscript
```

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

```
/* file    : xercesc/config.h -*- C -*-
* license  : Apache License 2.0; see accompanying LICENSE file
*/
```

Found in path(s):

```
* /opt/cola/permits/1751893110_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-gz/build2-packaging-xerces-c-df320e3/libxerces-c/xercesc/config.h
```

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

```
/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements. See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):

```
* /opt/cola/permits/1751893110_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-gz/build2-packaging-xerces-c-df320e3/libxerces-c/xercesc/internal/IGXMLScanner.cpp
*
```

```
/opt/cola/permits/1751893110_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-gz/build2-packaging-xerces-c-df320e3/libxerces-c/xercesc/util/Janitor.hpp
```

```
* /opt/cola/permits/1751893110_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-gz/build2-packaging-xerces-c-df320e3/libxerces-c/xercesc/util/JanitorExports.cpp
```

```
* /opt/cola/permits/1751893110_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-gz/build2-packaging-xerces-c-df320e3/libxerces-c/xercesc/validators/schema/TraverseSchema.cpp
```

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

```
# file    : tests/sax-print/testscript
# license : Apache License 2.0; see accompanying LICENSE file
```

```
: utf8
:
{
cat <<EOI >=f;
  <?xml version="1.0" encoding="UTF-8"?>
  <msg>
    Mitteleuropäische catégorie
  </msg>
EOI
```

```
$$* -x=UTF-8 f >>:EEO
  <?xml version="1.0" encoding="UTF-8"?>
  <msg>
    Mitteleuropäische catégorie
  </msg>
EEO
}
```

Found in path(s):

```
* /opt/cola/permits/1751893110_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-gz/build2-packaging-xerces-c-df320e3/libxerces-c/tests/sax-print/testscript
```

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

```
# file    : buildfile
# license : Apache License 2.0; see accompanying LICENSE file
```

```
# Glue buildfile that "pulls" all the packages.
```

```
import pkgs = {*/ -upstream/}
./: $pkgs
```

Found in path(s):

```
* /opt/cola/permits/1751893110_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-gz/build2-packaging-xerces-c-df320e3/buildfile
```

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

```
/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements. See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License. You may obtain a copy of the License at
```

\*  
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\*  
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\* distributed under the License is distributed on an "AS IS" BASIS,  
\* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
\* See the License for the specific language governing permissions and  
\* limitations under the License.  
\*/

Found in path(s):

\* /opt/cola/permits/1751893110\_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-gz/build2-packaging-xerces-c-df320e3/libxerces-c/xercesc/util/KVStringPair.hpp

\*

/opt/cola/permits/1751893110\_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-gz/build2-packaging-xerces-c-df320e3/libxerces-c/xercesc/util/XMLFloat.cpp

\* /opt/cola/permits/1751893110\_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-gz/build2-packaging-xerces-c-df320e3/libxerces-c/tests/net-accessor/NetAccessorTest.cpp

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

# file : tests/net-accessor/buildfile

# license : Apache License 2.0; see accompanying LICENSE file

import libs = libxerces-c%lib{xerces-c}

exe{driver}: {hxx cxx}{\*} \$libs testscript

# Disable MSVC warnings that pop up with /W3.

#

if (\$cxx.class == 'msvc')

cxx.coptions += /wd4267 /wd4305

Found in path(s):

\* /opt/cola/permits/1751893110\_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-gz/build2-packaging-xerces-c-df320e3/libxerces-c/tests/net-accessor/buildfile

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

# file : tests/dom-print/buildfile

# license : Apache License 2.0; see accompanying LICENSE file

import libs = libxerces-c%lib{xerces-c}

exe{driver}: DOMPrint/{hxx cxx}{\*} \$libs testscript

Found in path(s):

\* /opt/cola/permits/1751893110\_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-gz/build2-packaging-xerces-c-df320e3/libxerces-c/tests/dom-print/buildfile

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

```
# file   : tests/dom-print/testscript
# license : Apache License 2.0; see accompanying LICENSE file
```

```
: utf8
:
{
cat <<EOI >=f;
  <?xml version="1.0" encoding="UTF-8"?>
  <msg>
    Mitteleuropäische catégorie
  </msg>
  EOI

$* -wfpp=on f >>~%EOO%
  %<?xml version="1.0" encoding="UTF-8".*\?>%
  <msg>
    Mitteleuropäische catégorie
  </msg>
  EOO
}
```

Found in path(s):

```
* /opt/cola/permits/1751893110_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-gz/build2-packaging-xerces-c-df320e3/libxerces-c/tests/dom-print/testscript
```

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

```
# file   : build/export.build
# license : Apache License 2.0; see accompanying LICENSE file
```

```
$out_root/
{
include xercesc/
}

export $out_root/xercesc/lib{xerces-c}
```

Found in path(s):

```
* /opt/cola/permits/1751893110_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-gz/build2-packaging-xerces-c-df320e3/libxerces-c/build/export.build
```

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

```
: 1
name: libxerces-c
```

```
# Note: remember to update doc-url below!
#
```

version: 3.2.4

project: xerces-c

summary: Validating XML parsing and serialization C++ library

license: Apache-2.0 ; Apache License 2.0.

topics: Xerces, C++, XML parser, DOM, SAX

description-file: README

url: <http://xerces.apache.org/xerces-c/>

doc-url: <http://xerces.apache.org/xerces-c/api-3.html>

src-url: <https://git.build2.org/cgit/packaging/xerces-c/xerces-c/tree/libxerces-c/>

package-url: <https://git.build2.org/cgit/packaging/xerces-c/>

email: [c-users@xerces.apache.org](mailto:c-users@xerces.apache.org) ; Mailing list.

package-email: [packaging@build2.org](mailto:packaging@build2.org) ; Mailing list.

build-error-email: [builds@build2.org](mailto:builds@build2.org)

depends: \* build2 >= 0.15.0

depends: \* bpkg >= 0.15.0

depends: libcurl ^7.67.0 ? (\$config.libxerces\_c.network)

depends: libicuuc >= 65.1.0

depends: libicui18n >= 65.1.0

Found in path(s):

\* /opt/cola/permits/1751893110\_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-gz/build2-packaging-xerces-c-df320e3/libxerces-c/manifest

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

# file : tests/net-accessor/testscript

# license : Apache License 2.0; see accompanying LICENSE file

: http

:

\$\* 'http://www.example.com' >>~%EEO%

%.+

EEO

# If we want to test how HTTPS URLs are handled, we need to make it work

# always (see how the curl utility is packaged for details).

#

#\

: https

:

: Test that an HTTPS URL is queried successfully using libcurl via the system

: SSL backend on Windows and MacOS/Clang and fails for other targets that use

: the OpenSSL backend by default, since the CA certificates can not be

: located.

:

if (\$cxx.target.class == 'windows' || \

    \$cxx.target.class == 'macos' && \$cxx.id == 'clang-apple')

{



```
$* 'https://www.example.com' >>~%EOO%
%.+
EOO
}
else
{
$* 'https://www.example.com' 2>>~%EOE% != 0
Exception during test:
%.+
EOE
}
#\
```

Found in path(s):

```
* /opt/cola/permits/1751893110_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-
gz/build2-packaging-xerces-c-df320e3/libxerces-c/tests/net-accessor/testscript
No license file was found, but licenses were detected in source scan.
```

```
# file      : buildfile
# license   : Apache License 2.0; see accompanying LICENSE file

./: {*/ -build/} doc{INSTALL README} legal{LICENSE} manifest

# Don't install tests or the INSTALL file.
#
tests/:      install = false
doc{INSTALL}@./: install = false
```

Found in path(s):

```
* /opt/cola/permits/1751893110_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-
gz/build2-packaging-xerces-c-df320e3/libxerces-c/buildfile
No license file was found, but licenses were detected in source scan.
```

```
# file      : build/bootstrap.build
# license   : Apache License 2.0; see accompanying LICENSE file
```

```
project = libxerces-c
```

```
using version
using config
using dist
using test
using install
```

```
# The Xerces-C++ version has the <version>.<release>.<modification> form and
# follows the semver semantics. Specifically, the new versions and releases
# are issued when a certain number of bug fixes and new features are added
# and the modifications are issued when critical bugs are encountered. The
```

```

# releases and modifications may only contain the backward-compatible API
# changes. The ABI backward compatibility is only preserved for modifications.
#
# There is also the serialization format version number that can not be
# deduced from the package version. It is not documented which kind of package
# releases may increment this number, but based on its change history we can
# probably assume that this may not happen for modifications.
Thus, we will
# check for its change (the XERCES_GRAMMAR_SERIALIZATION_LEVEL variable in
# configure.ac) only when the version or release number is incremented.
#
# See also: https://xerces.apache.org/xerces-c/faq-contributing-3.html
#
if ($version.major == 3 && $version.minor == 2)
{
    grammar_serialization_level = 7 # Serialization format version.

    abi_version = "$version.major.$version.minor"
}
else
    fail "increment the serialization format version?"

Found in path(s):
* /opt/cola/permits/1751893110_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-gz/build2-packaging-xerces-c-df320e3/libxerces-c/build/bootstrap.build
No license file was found, but licenses were detected in source scan.

# file      : tests/sax-print/buildfile
# license   : Apache License 2.0; see accompanying LICENSE file

import libs = libxerces-c%lib{xerces-c}

exe{driver}: SAXPrint/{hxx cxx}{*} $libs testscript

Found in path(s):
* /opt/cola/permits/1751893110_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-gz/build2-packaging-xerces-c-df320e3/libxerces-c/tests/sax-print/buildfile
No license file was found, but licenses were detected in source scan.

# file      : tests/psvi-writer/buildfile
# license   : Apache License 2.0; see accompanying LICENSE file

import libs = libxerces-c%lib{xerces-c}

exe{driver}: PSVIWriter/{hxx cxx}{*} $libs testscript

switch $cxx.class
{

```

```

case 'gcc'
{
  # Disable warnings that pop up with -Wall -Wextra. Upstream doesn't seem
  # to care about these and it is not easy to disable specific warnings in a
  # way that works across compilers/version (some -Wno-* options are only
  # recognized in newer versions).
  #
  cxx.coptions += -Wno-all -Wno-extra
}
case 'msvc'
{
  # Disable warnings that pop up with /W3.
  #
  cxx.coptions += /wd4267
}
}

```

Found in path(s):

```

* /opt/cola/permits/1751893110_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-
gz/build2-packaging-xerces-c-df320e3/libxerces-c/tests/psvi-writer/buildfile

```

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

```

# file      : build/root.build
# license   : Apache License 2.0; see accompanying LICENSE file

# Enable network support so that the parser can download remote resources
# (schemas, DTDs, etc).
#
# If enabled, then the libcurl library is used to access network resources.
#
config [bool] config.libxerces_c.network ?= false

# We rely on C99 in macro deductions (see xercesc/config.h and
# xercesc/util/Xerces_autoconf_config.hpp for details).
#
c.std = 99

using c

h{*}: extension = h
c{*}: extension = c

cxx.std = latest

using cxx

hxx{*}: extension = hpp
txx{*}: extension = c

```

```

cxx{*}: extension = cpp

if ($c.target.system == 'win32-msvc')
  cc.poptions += -D_CRT_SECURE_NO_WARNINGS -D_SCL_SECURE_NO_WARNINGS

if ($c.class == 'msvc')
  cc.coptions += /wd4251 /wd4275 /wd4800

Found in path(s):
* /opt/cola/permits/1751893110_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-
gz/build2-packaging-xerces-c-df320e3/libxerces-c/build/root.build
No license file was found, but licenses were detected in source scan.

# file      : tests/build/root.build
# license   : Apache License 2.0; see accompanying LICENSE file

# Test network support (see parent project for details).
#
config [bool] config.libxerces_c.network ?= false

cxx.std = latest

using cxx

hxx{*}: extension = hpp
cxx{*}: extension = cpp

if ($cxx.target.system == 'win32-msvc')
  cxx.poptions += -D_CRT_SECURE_NO_WARNINGS -D_SCL_SECURE_NO_WARNINGS

if ($cxx.class == 'msvc')
  cxx.coptions += /wd4251 /wd4275 /wd4800

# Every exe{} in this subproject is by default a test.
#
exe{*}: test = true

# Specify the test target for cross-testing.
#
test.target = $cxx.target

Found in path(s):
* /opt/cola/permits/1751893110_1690307598.9077494/0/build2-packaging-xerces-c-v3-2-4-0-ge58c68b-tar-
gz/build2-packaging-xerces-c-df320e3/libxerces-c/tests/build/root.build

```

# 1.120 collectd 5.12.0

## 1.120.1 Available under license :

collectd consists of a daemon and numerous plugins. The daemon is licensed under the "MIT License"; its source files are located at src/daemon/. The plugins are licensed individually, please check the top of the plugin's source file(s) to see which license applies. The majority of plugins is licensed either under the "MIT License" or the "GNU General Public License".

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## 1.121 findutils 4.9.0

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

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

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

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

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

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

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

## Compilation
rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
```

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

```
## Dependency rules
```

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

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

```
## Versioned libraries rules
```

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

```
## Bind internal references
```

```
# LDFlags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
```

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

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

```
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File: config.guess (only for ICU4C)

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(The condition for the exception is fulfilled because ICU4C includes a configuration script generated by Autoconf, namely the `configure` script.)

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File: install-sh (only for ICU4C)

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## 1.123 libtirpc 1.3.3

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## 1.124 thrift 0.18.1

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```
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```
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```

```
*/
(By Douglas Crockford <douglas@crockford.com>)
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-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
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 */
```

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

```
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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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# 1.125 pyparsing 3.1.1

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# 1.126 gnutls 3.8.0

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```
=====  
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```

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```
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## version 0.1  
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## 1.127 coverage 7.3.1

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## 1.128 python-setuptools 68.2.2

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=====

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

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes



2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now	PSF	yes	

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## 1.130 tcl 8.6.13

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36. [39]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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48. [52]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
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51. [55]Michael Shields <shields@tembel.org> USNO clock driver
52. [56]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
53. [57]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
54. [58]Kenneth Stone <ken@sdd.hp.com> HP-UX port
55. [59]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
56. [60]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
57. [61]Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
58. [62]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
59. [63]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
60. [64]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
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## 1.134 util-linux 2.38.0

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5	7936	12799	4864	2.4M		
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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
    local FILE="$1"

    # Read the contents of the file into a variable
    local raw_license_text=$(<"$FILE")

    # Convert to lowercase
    local lowercase_license_text="{raw_license_text,,}"

    # Remove anything before the beginning of the license
    local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

    # Replace line breaks (Windows or Linux) with a single space
    local replaced_linebreaks=$(tr "\r\n" ' ' <<< "$stripped_license_text")

    # Replace multiple spaces with a single space
```

```

local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

# Strip away any non-printable, non-whitespace characters
local clean_unprintable_license_text=$(tr
-cd '[:print:][:space:]' <<< "$normalized_license_text")

# Remove punctuation and special characters
local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

# Calculate the MD5 sum of the cleaned license text
local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

# Output the MD5 sum
echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
echo "Please provide a FILE as an argument."
exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B "1
x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789;:<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789;:<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789;:<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789;:<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
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# 1.135 procps 4.0.4

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That's all there is to it!

# 1.136 e2fsprogs 1.47.0

## 1.136.1 Available under license :

Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version
  
- trivial database library - private includes
- 
- Copyright (C) Andrew Tridgell            2005
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\*\* NOTE! The following LGPL license applies to the tdb

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Upstream-Name: e2fsprogs

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

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

Comment:

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

Files: \*

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Files: lib/ext2fs/\*

lib/e2p/\*

lib/support/print\_fs\_flags.c

misc/e2fuzz.c

Copyright:

1995-1999, 2002, 2004-2006 Theodore Ts'o <tytso@mit.edu>

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2006 Cluster File Systems, Inc.

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Files: CleanSpec.mk

contrib/android/ext2simg.c

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Files: e2fsck/\*

debugfs/do\_journal.c

debugfs/journal.\*

debugfs/logdump.c

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misc/fuse2fs.c

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Theodore Ts'o  
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```
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```

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```
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```

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

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

That's all there is to it!

```
#  
# This is a Makefile stub which handles the creation of BSD shared  
# libraries.  
#  
# In order to use this stub, the following makefile variables must be defined.  
#  
# BSDLIB_VERSION = 1.0  
# BSDLIB_IMAGE = libce  
# BSDLIB_MYDIR = et  
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)  
#
```

all:: image

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

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

```
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
```

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

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

```
$(RM) -f ../$(BSD_LIB)
```

```
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
```

```
`echo $(my_dir) | sed -e 's;lib/;;' /$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
```

```
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
```

```
@$(INSTALL_PROGRAM) $(BSD_LIB) \
```

```
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
@-$(LDCONFIG)
```

```
install-strip: install
```

```
install-shlibs-strip:: install-shlibs
```

```
uninstall-shlibs uninstall::
```

```
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
```

```
$(RM)
```

```
-rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

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## 1.137 json-c 0.17-20230812

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## 1.138 python-ujson 5.8.0

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Portions of code from MODP\_ASCII - Ascii transformations (upper/lower, etc)  
<https://github.com/client9/stringencoders>

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Numeric decoder derived from from TCL library

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## 1.139 sysv-init 3.07

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```
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```

```
<signature of Ty Coon>, 1 April 1989  
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```
# -*- perl -*-
```

```
$testlist = [  
  # This specific test fails on OpenBSD because the .pcap file uses DLT_RAW,  
  # which OpenBSD treats as DLT_LOOP.  
  {  
    config_unset => 'IS_OPENBSD',  
    name => 'heap-overflow-1',  
    input => 'heap-overflow-1.pcap',  
    output => 'heap-overflow-1.out',
```

```
    args => '-v'
  },
];

1;
```

# 1.141 libcap 2.68

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```

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```

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# 1.143 dnsmasq 2.89

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became



Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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## 1.148 log-rotate 3.21.0

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Whether this is true is especially significant if the work can be  
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data  
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functions (ten lines or less in length), then the use of the object  
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Otherwise, if the work is a derivative of the Library, you may  
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Version 3, 29 June 2007

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## 1.151 diffutils 3.10

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## 1.153 pcre 8.45

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## 1.159 samba 4.17.7\_SAMBA4

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@vskip 20pt plus 1fil  
@end macro
```

```
@macro copyrightstart{ }  
@end macro
```

```
@macro copyrightend{ }  
@end macro
```

```
@node Copyrights and Licenses, , Acknowledgments, Top  
@comment node-name, next, previous, up  
@appendix Copyrights and Licenses
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@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

@item KCM credential cache.

@item HDB LDAP backend.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>  
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>  
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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## 1.160 xmltooling 3.2.4

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Section 6 states terms for distribution of such executables.

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

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

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Open-vm-tools v10.3.0

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## 1.165 sysstat 12.7.2

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

5. A program that contains no derivative of any portion of the



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

Section 6 states terms for distribution of such executables.

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

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

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

Any

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

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

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- a) Accompany the work with the complete corresponding

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

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

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

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

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The

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From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

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From strings/apr\_strnatcmp.c,  
include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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From  
strings/apr\_snprintf.c:

```
*  
* cvt - IEEE floating point formatting routines.  
*   Derived from UNIX V7, Copyright(C) Caldera International Inc.  
*
```

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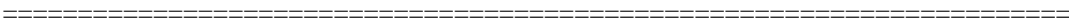
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## 1.181 traceroute 2.1.2

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## 1.183 kerberos 1.21.2

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cmd/krb5/slave/kpropd\_rpc.c  
lib/gss\_mechs/mech\_krb5/et/kdb5\_err.c  
lib/gss\_mechs/mech\_spnego/mech/gssapiP\_spnego.h  
lib/gss\_mechs/mech\_spnego/mech/spnego\_mech.c  
lib/krb5/kadm5/kadm\_host\_srv\_names.c

lib/krb5/kdb/kdb\_convert.c  
lib/krb5/kdb/kdb\_hdr.h  
lib/krb5/kdb/kdb\_log.c  
lib/krb5/kdb/kdb\_log.h  
lib/libgss/g\_accept\_sec\_context.c  
lib/libgss/g\_acquire\_cred.c  
lib/libgss/g\_canon\_name.c  
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lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
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- lib/gssapi/mechglue/g\_acquire\_cred.c
- lib/gssapi/mechglue/g\_canon\_name.c
- lib/gssapi/mechglue/g\_compare\_name.c
- lib/gssapi/mechglue/g\_context\_time.c
- lib/gssapi/mechglue/g\_delete\_sec\_context.c
- lib/gssapi/mechglue/g\_dsp\_name.c
- lib/gssapi/mechglue/g\_dsp\_status.c
- lib/gssapi/mechglue/g\_dup\_name.c
- lib/gssapi/mechglue/g\_exp\_sec\_context.c
- lib/gssapi/mechglue/g\_export\_name.c
- lib/gssapi/mechglue/g\_glue.c
- lib/gssapi/mechglue/g\_imp\_name.c
- lib/gssapi/mechglue/g\_imp\_sec\_context.c
- lib/gssapi/mechglue/g\_init\_sec\_context.c
- lib/gssapi/mechglue/g\_initialize.c
- lib/gssapi/mechglue/g\_inquire\_context.c
- lib/gssapi/mechglue/g\_inquire\_cred.c
- lib/gssapi/mechglue/g\_inquire\_names.c
- lib/gssapi/mechglue/g\_process\_context.c
- lib/gssapi/mechglue/g\_rel\_buffer.c
- lib/gssapi/mechglue/g\_rel\_cred.c
- lib/gssapi/mechglue/g\_rel\_name.c
- lib/gssapi/mechglue/g\_rel\_oid\_set.c
- lib/gssapi/mechglue/g\_seal.c
- lib/gssapi/mechglue/g\_sign.c
- lib/gssapi/mechglue/g\_store\_cred.c
- lib/gssapi/mechglue/g\_unseal.c
- lib/gssapi/mechglue/g\_userok.c
- lib/gssapi/mechglue/g\_utils.c
- lib/gssapi/mechglue/g\_verify.c
- lib/gssapi/mechglue/gssd\_pname\_to\_uid.c
- lib/gssapi/mechglue/mglueP.h
- lib/gssapi/mechglue/oid\_ops.c
- lib/gssapi/spnego/gssapiP\_spnego.h
- lib/gssapi/spnego/spnego\_mech.c

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- include/iprop\_hdr.h
- kadmin/server/ipropd\_svc.c
- lib/kdb/iprop.x
- lib/kdb/kdb\_convert.c

lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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# 1.186 cracklib 2.9.11

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^L

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

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

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

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

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

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

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

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

^L

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

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

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining

where to find the accompanying uncombined form of the same work.

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

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

Copyright (C) <year> <name of author>

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

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

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

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

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

That's all there is to it!

-----  
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected  
in released code until Nov 2009 - slow release cycle...)  
-----

Discussion thread from mailing list archive, with approval from everyone actively  
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license  
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML  
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=  
r=20  
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

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

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan

wrote:

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

the original license (before moving to sourceforge -- aka, 2.7) was not=20

GPL-2 ... it was a modified artistic license ... i didnt notice the license=

=20

change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=

eir=20

applications are also GPL-2 which imo is just wrong. it isnt the place of =



a=20

library to dictact to application writes what license they should be using.=

=20

thus LGPL-2.1 enters to fill this void.

=2Dmike

Re: [Cracklib-devel]

cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan

> Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

> > I understand that, and you're welcome to bring it up with Alec

> directly

> > and see if he wants to relicense his code as LGPL... but at this

> point,

> > it was enough to just get it consistent and documented as to what

> it was

> > released under. This wasn't actually a license change, just a

> > clarification of the licensing that was already in place.

>=20

> the original license (before moving to sourceforge -- aka, 2.7) was

> not

> GPL-2 ... it was a modified artistic license ... i didnt notice the

> license

> change until it was mentioned in the latest notes.

>=20

> unlike the old license, GPL-2 prevents people from using cracklib  
> unless their  
> applications are also GPL-2 which imo is just wrong. it isnt the  
> place of a  
> library  
to dictact to application writes what license they should  
> be using.  
> thus LGPL-2.1 enters to fill this void.  
> -mike

Re: [Cracklib-devel] cracklib license

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

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

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license

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

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

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

Devin

--

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

Re: [Cracklib-devel] cracklib license

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

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

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML

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

>> What I am hearing so far is that LGPL makes sense, since it can be  
>> linked with any code, not just GPL...  
>  
> My apologies for not chiming in in anything resembling a reasonable  
> timeframe.  
>  
> I'd also suggest the LGPL, for the reason you noted above. Alternately,  
> GPLv2 with the option of using  
the library under a later version of the  
> GPL would permit applications which were released under version 3 of the  
> GPL to use the library, too, which would be sufficient for the packages  
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.  
>  
> In any case, I thank you both for working on sorting this out.

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

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

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

>

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

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October

2008, Alec Muffett wrote:

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

>>

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

>

> yes. go for it. thanks++

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

-mike

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

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

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

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

-----  
From  
alecm@crypticide.com Mon Oct 1 12:26:03 2007  
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:03 -0500  
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91Gxtpr020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from  
[82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id I1cOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>

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

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

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

Happy now? :-)

-a

# 1.187 vim 9.0.2009

## 1.187.1 Available under license :

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Version 2.1, February 1999

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of



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

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## 1.188 python-zipp 3.16.2

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# 1.189 python-wrapt 1.15.0

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# 1.190 python-werkzeug 2.2.3

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# 1.191 python-contextlib2 21.6.0

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

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

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| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---------|--------------|------|-------|---------------------|
| 2.5     | 2.4          | 2006 | PSF   | yes                 |
| 2.5.1   | 2.5          | 2007 | PSF   | yes                 |
| 2.5.2   | 2.5.1        | 2008 | PSF   | yes                 |
| 2.5.3   | 2.5.2        | 2008 | PSF   | yes                 |
| 2.6     | 2.5          | 2008 | PSF   | yes                 |
| 2.6.1   | 2.6          | 2008 | PSF   | yes                 |

|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0   | 2.6   | 2008 | PSF | yes |
| 3.0.1 | 3.0   | 2009 | PSF | yes |
| 3.1   | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1   | 2009 | PSF | yes |
| 3.1.2 | 3.1.1 | 2010 | PSF | yes |
| 3.1.3 | 3.1.2 | 2010 | PSF | yes |
| 3.1.4 | 3.1.3 | 2011 |     |     |
|       | PSF   | yes  |     |     |
| 3.2   | 3.1   | 2011 | PSF | yes |
| 3.2.1 | 3.2   | 2011 | PSF | yes |
| 3.2.2 | 3.2.1 | 2011 | PSF | yes |
| 3.3   | 3.2   | 2012 | PSF | yes |

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## 1.193 pystatsd 4.0.1

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```
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## 1.195 python-configparser 6.0.0

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## 1.196 python-peewee 3.16.2

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## 1.197 python-pbr 5.11.1

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## 1.198 python-dbus 1.3.2

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## 1.199 python-typing-extensions 4.7.1

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#### A. HISTORY OF THE SOFTWARE

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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.

All

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

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  | PSF        | yes                 |

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## 1.200 python-pycryptodome 3.18.0



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## 1.205 python-tubes 0.2.1

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```
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## 1.208 sudo 1.9.14p3

### 1.208.1 Available under license :

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

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

Gerraty, Simon J.  
Graber, Stephane  
Guillory, B.  
Hayman, Randy M.  
Henke, Joachim  
Hideaki, Yoshifuji  
Hieb, Dave  
Holloway, Nick  
Hoover, Adam  
Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
Jackson, Brian  
Jackson, John R.  
Jackson, Richard L., Jr.  
Janssen, Mark  
Jindrak, Jaroslav  
Jepeway, Chris  
Jorge, Joel Pele  
Jover, Guillem  
Juhani, Timo  
Kikuchi, Ayamura  
Kadow, Kevin  
Kasal, Stepan  
Kienenberger, Mike  
King, Dale  
King, Michael  
Klyachkin, Andrey  
Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai  
Kopeck, Daniel  
Kranenburg, Paul  
Krause, David  
Lakin, Eric  
Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbes, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom  
Makey, Jeff  
Mallayya,  
Sangamesh  
Manner, Rbert  
Marchionna, Michael D.



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

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

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

Albuquerque, Pedro  
Blttermann, Mario  
Bogusz, Jakub

Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez, Francisco  
Doghonadze, Temuri  
Fontenelle, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frdric  
Hein, Jochen  
Hufthammer, Karl Ove  
Jerovek, Damir  
Karvonen, Jorma  
Kazik, Duan  
Kelemen, Gbor  
Keeci, Mehmet  
Koir, Klemen  
Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
Margeviius, Algimantas  
Maryanov, Pavel  
Florentina Muat  
Nurmi, Lauri  
Nikoli, Miroslav  
Nylander, Daniel  
Pan, Yi-Jyun  
Psa, Petr  
Puente, Enol  
Putanec, Boidar  
Qun, Trn Ngc  
Rasmussen, Sebastian  
Regueiro, Leandro  
Sarer, zgr  
Selimaj, Agron  
Sendn, Abel  
erbnescu, Daniel  
Shahedany, Eshagh  
Sikrom, ka  
Spingos, Dimitris  
Taniguchi, Yasuaki

Tomat, Fbio  
r, Balzs  
Uranga, Mikel Olasagasti  
Vorotnikov, Artem  
Wang, Wylmer

Yang, Boyuan

The following people designed the artwork used on the sudo website:

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Sandwich logo (inspired by xkcd): Stillman, Mark

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## 1.212 dns-python 2.4.2

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## 1.219 pycparser 2.21

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pycparser -- A C parser in Python

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## 1.220 python3-asn1crypto 1.5.1

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