



Open Source Used In IoT Unified Industrial Wireless 26.1

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1.2 Izo 2.10

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1.5 sharutils 4.15

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1.6 libxml2 2.7.6

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1.8 tcp-wrappers 7.6

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1.9 libnl3 3.5.0

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1. [1]Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
 2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
 3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
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 10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features
- in sntp
11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
 12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
 13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
 14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
 15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
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 19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
 20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
 21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
 22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
 23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
 24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
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43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
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52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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1.11 libxml 2.3.0

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1.12 popt 1.18

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1.14 libidn 1.36

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

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1.18 pciutils 3.7.0

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<one line to give the program's name and a brief idea of what it does.>
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when it starts in an interactive mode:

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

The hypothetical commands ``show w'` and ``show c'` should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than ``show w'` and ``show c'`; they could even be
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You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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

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

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1.21 libcap-ng 0.8.2

1.21.1 Available under license :

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Version 2.1, February 1999

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

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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.

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

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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility

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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.

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

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

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

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

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

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

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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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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.

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1.22 iptables 1.8.7

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1.23 opkg 0.1.8

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1.26 libpcap 1.10.1

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1.27 kmod 29

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1.30 libssh2 1.10.0

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```
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1.31 ncurses 6.3

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

Upstream source <https://invisible-island.net/ncurses/ncurses.html>

This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- vile:txtmode fc=72
-- \$Id: COPYING,v 1.10 2021/01/01 09:54:30 tom Exp \$

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1.32 pcre2 10.39

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1.33 glibc 2.35

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section 10

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Version 3, 29 June 2007

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1.41 tdb 1.46.5

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

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

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

all:: image

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

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

image: \$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

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

clean::

\$(RM)

-rf pic

\$(RM) -f \$(BSD_LIB)

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

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

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

*/

/*

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

- trivial database library - private includes

-

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Follows the GNU license.

Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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

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

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

Constant-time SSSE3 AES core implementation.

version 0.1

By Mike Hamburg (Stanford University), 2009
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Version 3, 29 June 2007

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```
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```

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1.44 bash 5.1.16

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1.45 glib 2.72.3

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1.46 libuv 1.44.2

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1.48 protobuf 3.19.6

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- * Small patch to fix Python CallMethod().

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- * Small optimizations to Python serialization.

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- * VI syntax highlighting tweaks.

- * Fix compiler to not make output executable.

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- * Heuristic detection of sub-messages when printing unknown fields in text format.

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- * Solaris 10 + Sun Studio fixes.

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- * Slicing support for repeated scalar fields for the Python API.

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- * MS Visual Studio error format option.

- * Detect unordered_map in stl_hash.m4.

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- * gzip/zlib I/O support.

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- * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).

- * Added generation of field number constants.

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- * Fixed initialization ordering problem in logging code.

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- * Small patch improving performance of in Python serialization.

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- * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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- * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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- * HPUX support.

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- * Detect whether zlib is new enough in configure script.

- * Fixes for Solaris 10 32/64-bit confusion.

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- * Optimize Java serialization code when writing a small message to a stream.
- * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- * Clean up some Java warnings.
- * Fix bug with permanent callbacks that delete themselves when run.

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- * Added CodedInputStream.getTotalBytesRead().

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- * Fixed m4/acx_pthread.m4 problem for some Linux distributions.

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- * Fixed detection of sched_yield on Solaris.

- * Added atomicops for Solaris

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- * Fixed minor IBM xLC compiler build issues

- * Added atomicops for AIX (POWER)

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1.49 libffi 3.4.4

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```
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it
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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1.53 systemd 250

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- src/systemctl/systemd-sysv-install.SKELETON
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OpenSSL Notes

Note that building the systemd project with OpenSSL does not affect the libsystemd.so shared library, which is not linked with the OpenSSL library.

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1.54 libfastjson 0.99.9

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1.55 libmemcached 1.0.18

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1.56 mtd-utils 2.1.5

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1.57 libconfig 1.7.3

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

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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.

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

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

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

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@page

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@format

@t{

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

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@format

@t{

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

}

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@c @bye

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Version 2.1, February 1999

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object 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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in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

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

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

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

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

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

e) Verify that the user has already received a copy of these

materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally

distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

1.61 yajl 2.1.0

1.61.1 Available under license :

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```
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 *
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 */
```

Found in path(s):

* /dcm-spice-yajl-2-1-0-0-g88d7964-tar-gz/dcm-spice-yajl-64437c8/include/yajl/yajl_tree.h

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

```
/*
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 *
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 */
```

Found in path(s):

```
* /dcm-spice-yajl-2-1-0-0-g88d7964-tar-gz/dcm-spice-yajl-64437c8/include/yajl/yajl_parse.h
* /dcm-spice-yajl-2-1-0-0-g88d7964-tar-gz/dcm-spice-yajl-64437c8/include/yajl/yajl_common.h
*
/dcm-spice-yajl-2-1-0-0-g88d7964-tar-gz/dcm-spice-yajl-64437c8/include/yajl/yajl_gen.h
```

1.62 selinux 3.3

1.62.1 Available under license :

This is the Debian package for libselinux, and it is built from sources obtained from:
<http://userspace.selinuxproject.org/trac/wiki/Releases>

This package was debianized by Colin Walters <walters@debian.org> on
Thu, 3 Jul 2003 17:10:57 -0400.

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This package is maintained by Manoj Srivastava <srivasta@debian.org>.

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it by writing to the Free Software Foundation, Inc., 51 Franklin
St,
Fifth Floor, Boston, MA 02110-1301, USA.

Manoj Srivastava <srivasta@debian.org>
arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27
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1.63 libsepol 3.3

1.63.1 Available under license :

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Version 2.1, February 1999

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

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

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1.64 visual-studio-runtime 0.3.6

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A. HISTORY OF THE SOFTWARE

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

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

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

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

Release	Derived	Year	Owner	GPL-
	from			compatible? (1)

0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a

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

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=====
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=====

The Distutils2 project was started by Tarek Ziad and is currently
maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

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

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Version 3, 29 June 2007

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Version 3, 29 June 2007

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This package contains a modified version of ca-bundle.crt:

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

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

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

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

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

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@(#) \$RCSfile: certdata.txt,v

\$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

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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
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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
2.2	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
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2.5.2	2.5.1	2008	PSF	yes
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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
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A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a

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2.0	1.6	2000	BeOpen.com	no
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2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes

2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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A. HISTORY OF THE SOFTWARE

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

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

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

All

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

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

1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
PSF	yes			

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

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.71 cyrus-sasl 2.1.28

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.75 c-ares 1.18.1

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1.76 tcpdump 4.99.4

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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;
```

1.77 procps 4.0.4

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any

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1.78 e2fsprogs 1.46.5

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

all:: image

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

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

image: \$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

```
clean::
$(RM)
```

-rf pic

\$(RM) -f \$(BSD_LIB)

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

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
+ Copyright (C) Andrew Tridgell 1999-2005
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** library. This does NOT imply that all of Samba is released
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Gadi Oxman, August 1995

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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Theodore Ts'o
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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1.80 net-snmp 5.9.3

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1.81 util-linux 2.37.4

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

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```
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```

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

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```

#!/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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1.85 libjitterentropy 3.4.1

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1.86 libevent 2.1.12

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1.87 libtasn 4.17.0

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- */

Found

in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftpd/tftpd.c
No license file was found, but licenses were detected in source scan.

/*

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* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY

* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF

* SUCH DAMAGE.

*/

Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/common/tftpsubs.c

*

/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/main.c

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/tftp.c

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

```
/* ----- */
*
* Copyright 2001-2006 H. Peter Anvin - All Rights Reserved
*
* This program is free software available under the same license
* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
*
* ----- */
```

Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/recvfrom.h

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/recvfrom.c

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

Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp

Version: 5.2

Release: 1

License: BSD

Group: Applications/Internet

Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>

BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server

Group: System Environment/Daemons

Summary: The server for the Trivial File Transfer Protocol (TFTP).

Requires: xinetd

%description server

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep

%setup -q -n tftp-hpa-%{version}

%build

%configure

make %{?_smp_mflags}

%install

rm -rf \${RPM_BUILD_ROOT}

mkdir -p \${RPM_BUILD_ROOT}%{_bindir}

mkdir -p \${RPM_BUILD_ROOT}%{_mandir}/man{1,8}

mkdir -p \${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=\${RPM_BUILD_ROOT} \

SBINDIR=%{_sbindir} MANDIR=%{_mandir} \

install

install -m755 -d \${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ \${RPM_BUILD_ROOT}/tftpboot

install -m644 tftp-xinetd \${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server

/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server

```

if [ $1 = 0 ]; then
    /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files
server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1

```

- Fix #55789
- Update to 0.30

- * Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

- * Fri Jun
- 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

- * Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

- * Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

- * Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

- * Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

- * Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

- * Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

- * Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

- * Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update
- to tftp-hpa-0.16

- * Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)

- added description for "-l" to the man-page

- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
 - updated tftp client to 0.17 stable (#19640),
 - drop dependency on xinetd for tftp client (#25051),

- * Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
 - xinetd shouldn't wait on tftp (which forks) (#23923).

- * Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
 - fix to permit tftp put's (#18128).
 - startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
 - %%post is needed by server, not client. Add %%postun for erasure as well.

- * Wed Aug 23 2000
 - Nalin Dahyabhai <nalin@redhat.com>
 - default to being disabled

- * Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
 - correct group.

- * Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
 - change user from root to nobody

- * Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
 - update to tftp-hpa-0.14 (#14003).
 - add server_args (#14003).
 - remove -D_BSD_SOURCE (#14003).

- * Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
 - cook up an xinetd config file for tftpd

- * Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
 - automatic rebuild

- * Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
 - FHS packaging.
 - update to 0.17.

- * Fri May 5 2000 Matt Wilson <msw@redhat.com>
 - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

- * Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
 - fix description

- * Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
 - compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>

- man pages are compressed
- fix description and summary

* Tue

Jan 4 2000 Bill Nottingham <notting@redhat.com>

- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>

- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>

- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>

- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>

- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>

- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>

- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>

- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>

- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>

- initial build

Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp.spec

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

/* -*- c -*- ----- *

*

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*

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* as the "OpenBSD" operating system, distributed at

* <http://www.openbsd.org/>.

*

* ----- */

Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/config.h

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

Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp

Version: @@VERSION@@

Release: 1

License: BSD

Group: Applications/Internet

Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>

BuildRequires: tcp_wrappers-devel

BuildRoot: %{_tmppath}/%{name}-root

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server

Group: System Environment/Daemons

Summary: The server for the Trivial File Transfer Protocol (TFTP).

Requires: xinetd

%description server

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep

%setup -q -n tftp-hpa-%{version}

%build

%configure

make %{?_smp_mflags}

%install

rm -rf \${RPM_BUILD_ROOT}

mkdir -p \${RPM_BUILD_ROOT}%{_bindir}

```

mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
    SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
    install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
    /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files
server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

```

- * Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

- * Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

- * Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

- * Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

- * Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

- * Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

- *
- Fri Jun 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

- * Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

- * Thu May 23 2002 Tim Powers <timp@redhat.com>
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- automated rebuild

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 - fix tftp client's put problems (#29529)
 -
 - update to tftp-hpa-0.16

- * Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
 - don't let configure to guess compiler, it can pick up egcs

- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
 - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
 - fixed hpa-tftpd to handle files greater than 32MB (#23725)
 - added "-l" flag to hpa-tftpd for file-logging (#26467)
 - added description for "-l" to the man-page

- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
 - updated tftp client to 0.17 stable (#19640),
 - drop dependency on xinetd for tftp client (#25051),

- * Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
 - xinetd shouldn't wait on tftp (which forks) (#23923).

- * Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
 - fix to permit tftp put's (#18128).
 - startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
 - %%post is needed by server, not client. Add %%postun for erasure as well.

- * Wed Aug
 - 23 2000 Nalin Dahyabhai <nalin@redhat.com>
 - default to being disabled

- * Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
 - correct group.

- * Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
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 - update to tftp-hpa-0.14 (#14003).
 - add server_args (#14003).
 - remove -D_BSD_SOURCE (#14003).

- * Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
 - cook up an xinetd config file for tftpd

- * Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
 - automatic rebuild

- * Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
 - FHS packaging.
 - update to 0.17.
- * Fri May 5 2000 Matt Wilson <msw@redhat.com>
 - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.
- * Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
 - fix description
- * Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
 - compress man pages (again).
- * Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
 - man pages are compressed
 - fix description and summary
- *
 - Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
 - split client and server
- * Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
 - update to 0.16.
- * Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
 - update to 0.15.
- * Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
 - tftpd should truncate file when overwriting (#412)
- * Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
 - auto rebuild in the new build environment (release 22)
- * Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
 - compile for 6.0.
- * Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
 - build root
- * Mon Apr 27 1998 Prospector System <bugs@redhat.com>
 - translations modified for de, fr, tr
- * Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
 - added check for getpwnam() failure
- * Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
 - initial build

Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp.spec.in

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

```
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*
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* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
*
* ----- */
```

Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/tftpd.h

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

```
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.\" notice, this list of conditions and the following disclaimer in the
.\" documentation and/or other materials provided with the distribution.
.\" 3. Neither the name of the University nor the names of its contributors
.\" without specific prior written permission.
```

Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/tftpd.8.in

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```


Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/tftp.1.in

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

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Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/MCONFIG.in

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

/* ----- *

*

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*

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* as the "OpenBSD" operating system, distributed at

* <http://www.openbsd.org/>.

*

* ----- */

Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/remap.h

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/remap.c

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/misc.c

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

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 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 */

Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/extern.h
 * /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/common/tftpsubs.h

1.92 libiniparser 3.0

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1.93 grpc 1.53.2

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- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

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

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Any

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DRuntime: Runtime Library for the D Programming Language
=====

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1.109 libvirt 10.0.0

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1.110 pkix ssh 15.3

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*

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

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* Blowfish - a fast block cipher designed by Bruce Schneier

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1.111 simple launcher 1.1.0.14

1.111.1 Available under license :

A. HISTORY OF THE SOFTWARE

=====

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

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

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

Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes

3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

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

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=====

Distutils2 Contributors

=====

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

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

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martn Brugu
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- Victor Stinner
- Alexandre Vassalotti
- Nadeem Vawda

Metadata-Version: 1.0

Name: setuptools

Version: 0.6c9

Summary: Download, build, install, upgrade, and uninstall Python packages -- easily!

Home-page: <http://pypi.org/pypi/setuptools>

Author: Phillip J. Eby

Author-email: distutils-sig@python.org

License: PSF or ZPL

Description: =====

Installing and Using Setuptools

=====

.. contents:: **Table of Contents**

 Installation Instructions

Windows

=====

Install setuptools using the provided ``.exe`` installer. If you've previously installed older versions of setuptools, please delete all ``setuptools\*.egg`` and ``setuptools.pth`` files from your system's ``site-packages`` directory (and any other ``sys.path`` directories) FIRST.

If you are upgrading a previous version of setuptools that was installed using an ``.exe`` installer,

please be sure to also *uninstall that older version*

via your system's "Add/Remove Programs" feature, BEFORE installing the newer version.

Once installation is complete, you will find an ``easy\_install.exe`` program in your Python ``Scripts`` subdirectory. Be sure to add this directory to your ``PATH`` environment variable, if you haven't already done so.

RPM-Based Systems

=====

Install setuptools using the provided source RPM. The included ``.spec`` file assumes you are installing using the default ``python`` executable, and is not specific to a particular Python version. The ``easy\_install`` executable will be installed to a system ``bin`` directory such as ``/usr/bin``.

If you wish to install to a location other than the default Python installation's default ``site-packages`` directory (and ``\$prefix/bin`` for scripts), please use the ``.egg``-based

installation approach described in the following section.

Cygwin, Mac OS X, Linux, Other

=====

1. Download the appropriate egg for your version of Python (e.g. ``setuptools-0.6c9-py2.4.egg``). Do NOT rename it.

2. Run it as if it were a shell script, e.g. ``sh setuptools-0.6c9-py2.4.egg``. Setuptools will install itself using the matching version of Python (e.g. ``python2.4``), and will place the ``easy\_install`` executable in the default location for installing Python scripts (as determined by the standard distutils configuration files, or by the Python installation).

If you want to install setuptools to somewhere other than ``site-packages`` or your default distutils installation locations for libraries and scripts, you may include EasyInstall command-line options such as ``--prefix``,

`--install-dir``, and so on, following the `.egg` filename
on the same`

command line. For example::

```
sh setuptools-0.6c9-py2.4.egg --prefix=~
```

You can use `--help`` to get a full options list, but we recommend consulting
the ``EasyInstall manual`` for detailed instructions, especially ``the section
on custom installation locations``.

.. `_EasyInstall manual`: <http://peak.telecommunity.com/DevCenter/EasyInstall>
.. `_the section on custom installation locations`: [http://peak.telecommunity.com/DevCenter/EasyInstall#custom-
installation-locations](http://peak.telecommunity.com/DevCenter/EasyInstall#custom-installation-locations)

Cygwin Note

If you are trying to install setuptools for the `**Windows**` version of Python
(as opposed to the Cygwin version that lives in ``/usr/bin``), you must make
sure that an appropriate executable (``python2.3``, ``python2.4``, or
``python2.5``) is on your `**Cygwin**` ``PATH`` when invoking the egg. For
example, doing the following at a Cygwin bash prompt will install setuptools
for the `**Windows**` Python found at ``C:\Python24``::

```
ln -s /cygdrive/c/Python24/python.exe python2.4  
PATH=.:$PATH sh setuptools-0.6c9-py2.4.egg  
rm python2.4
```

Downloads

=====

All setuptools downloads can be found at ``the project's home page in the Python
Package Index``. Scroll to the very bottom of the page to find the links.

.. `_the project's home page in the Python Package Index`: <http://pypi.org/pypi/setuptools>

In addition to the PyPI downloads, the development version of ``setuptools``
is available from the ``Python SVN sandbox``, and in-development versions of the
``0.6 branch`` are available as well.

.. `_0.6 branch`: <http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06>

.. `_Python SVN sandbox`: <http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev>

Using

Here are some of the available manuals, tutorials, and other resources for learning about Setuptools, Python Eggs, and EasyInstall:

- * `The EasyInstall user's guide and reference manual`_
- * `The setuptools Developer's Guide`_
- * `The pkg\_resources API reference`_
- * `Package Compatibility Notes`_ (user-maintained)
- * `The Internal Structure of Python Eggs`_

Questions, comments, and bug reports should be directed to the `distutils-sig` mailing list`. If you have written (or know of) any tutorials, documentation, plug-ins, or other resources for setuptools users, please let us know about them there, so this reference list can be updated. If you have working, \*tested\* patches to correct problems or add features, you may submit them to the `setuptools bug tracker`_.

.. _setuptools bug tracker: <http://bugs.python.org/setuptools/>
.. _Package Compatibility Notes: <http://peak.telecommunity.com/DevCenter/PackageNotes>
.. _The Internal Structure of Python Eggs: <http://peak.telecommunity.com/DevCenter/EggFormats>
.. _The setuptools Developer's Guide: <http://peak.telecommunity.com/DevCenter/setuptools>
.. _The pkg_resources API reference: <http://peak.telecommunity.com/DevCenter/PkgResources>
.. _The EasyInstall user's guide and reference manual: <http://peak.telecommunity.com/DevCenter/EasyInstall>
.. _distutils-sig mailing list: <http://mail.python.org/pipermail/distutils-sig/>

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* Ian Bicking implemented many early "creature comfort" features of

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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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Any executables

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

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

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

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a) Accompany

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

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

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1.117 curl 8.7.1

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1.118 libsemanage-common 3.3

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* /ubus-221ce7e7ff1bd1a0c9995fa9d32f58e865f7207f-zip/ubus-
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```

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221ce7e7ff1bd1a0c9995fa9d32f58e865f7207f/examples/client.c
```

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* /ubus-221ce7e7ff1bd1a0c9995fa9d32f58e865f7207f-zip/ubus-
221ce7e7ff1bd1a0c9995fa9d32f58e865f7207f/ubusd_id.h
* /ubus-221ce7e7ff1bd1a0c9995fa9d32f58e865f7207f-zip/ubus-
221ce7e7ff1bd1a0c9995fa9d32f58e865f7207f/ubusd_obj.h
*
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1.123 fcgi 1.4.67

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1.124 picohttpparser 0.10.0

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1.125 zstd 1.5.2

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1.126 python 3.10.18

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://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 <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.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.127 dmalloc 5.5.2

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```
/* close the connection with the client */  
close_connection();
```

```
}  
...  
}
```

Usually you would set the mark after the initializations and before each transaction is processed. Then for each transaction you can use ``dmalloc_log_changed'` to show the unfreed memory. *Note Extensions::.

7. You can also use the ``dmalloc_log_stats'` function to dump general information about the heap. Also, remember that you can use the ``dmalloc_message'` and ``dmalloc_vmessage'` routines to annotate the `dmalloc` logfile with details to help you debug memory problems. *Note Extensions::.

File: `dmalloc.info`, Node: Logfile Details, Next: Other Hints, Prev: Debugging A Server, Up: Programming

3.13 Explanation of the Logfile Output

=====

Most of time you will be using the logfile output from library as the sole information source for diagnosing problems in and getting statistics for your program.

```
1098918225:  
3: Dmalloc version 'Version 5.5.2'  
1098918225: 3: flags = 0x4f4e503, logfile '/tmp/dmalloc.log'  
1098918225: 3: interval = 500, addr = 0, seen # = 0, limit = 0  
1098918225: 3: starting time = 1098918225  
1098918225: 3: process pid = 32406  
1098918226: 4: WARNING: tried to free(0) from foo.c:708'  
1098918228: 20: *** free: at 'unknown' pnt '0xed310080|s2': \  
size 12, allocated at 'bar.c:102'  
1098918230: 50: ERROR: heap_check: free space was overwritten (err 67)  
1098918230: 50: error details: checking free pointer  
1098918230: 50: pointer '0x291c5' from 'unknown' prev access 'foo.c:787'
```

Here is a short example of some logfile information. Each of the lines are prefixed by the time (in epoch seconds since 1/1/1970) and the iteration or call count which is the number of times the library has been called from `malloc`, `free`, `verify`, etc.. In the above example, the first 5 log entries were written at epoch 1098918225 or 'Wed Oct 27 19:03:45 2004 EST' and they were generated by the 3rd call to the library.

See the ``settings.dist'` file entries to tune what elements appear on each line: `LOG_TIME_NUMBER`, `LOG_ITERATION`, `LOG_PID`, etc..

You can convert the epoch seconds to a date from the command line with the following perl code: ``perl -e 'print localtime($ARGV[0])."\n";' epoch-seconds-number``

The first 5 lines of the sample logfile contain header information for all logfiles. They show the version number and URL for the library as well as all of the settings that the library is currently using. These settings are tuned using the `dmalloc` utility program. *Note Dmalloc Program::. The 5th line of is the process-id that generated the logfile.

The 6th line in the above example is what causes the logfile to be opened and the header to be written. It is a warning that tells you that you tried to free a 0L pointer at a certain location. You can disable these warnings by setting ``ALLOW_FREE_NULL_MESSAGE'` to 0 in ``settings.dist'`.

Line 7 is an example of a transaction log that you get when you enable the ``log-trans'` debug token. \*Note Debug Tokens::. This line shows that a call to free was made from an unknown location. It is unknown because the file in question did not include ``dmalloc.h'` to get file/line-number information. The call to free was freeing the pointer address ``0xed310080'` which we have "seen" 2 times (s2). We saw the pointer when it was allocated and then we are seeing it again when it was freed. Because the library is reusing pointers (reclaiming freed memory) the seen count helps to track how many times a pointer was used. The last part of the line shows that the pointer to be freed was allocated by ``bar.c'` line 102.

Lines 8-10 is the next problem that the library caught and this one is an error. It happened 5 seconds from the start of the log (1098918230) and at the 50th call into the library. It shows that an allocation that had been freed then was overwritten. This may imply that someone tried to use memory after it was freed or that there was a loose pointer reference. The last two lines give more details about when the error was discovered, the address of the offending pointer, and when the pointer was previous accessed, in this case freed. To discover where this problem is happening, you can use a debugger. *Note Using With a Debugger::.

File: `dmalloc.info`, Node: Other Hints, Prev: Logfile Details, Up: Programming

3.14 Various Other Hints That May Help

=====

One of the problems that is often seen is that a program crashes in the 'libc' memory code and you suspect a heap memory problem but both dmalloc and maybe valgrind don't show any problems. One of the big problems with debugging is that it is very difficult to do it without effecting how the program is run. Sometimes errors are due to subtle race conditions that are only seen when the program is running at full speed - not slowed down by debugging code.

This is especially true with threaded code which is often heavily affected when used with dmalloc and valgrind. Older versions of valgrind (maybe current) forced all threads into a single virtual system by design, which often masks reentrance bugs.

One way to work through these issues is to run with the library with very few debugging flags enabled. Many memory problems are fence-post areas so start with dmalloc checking just the fence post and error logging enabled:

```
dmalloc -d 0 -l dmalloc.log -p log-stats -p log-non-free -p check-fence -p check-funcs
```

This enabled a small number of checks and should cause your program to run at close to full speed. The library has never been optimized for speed so some performance penalties will be felt.

File: dmalloc.info, Node: Dmalloc Program, Next: Source Code, Prev: Programming, Up: Top

4 Dmalloc Utility Program

The dmalloc program is designed to assist in the setting of the environment variable 'DMALLOC_OPTIONS'. *Note Environment Variable::. It is designed to print the shell commands necessary to make the appropriate changes to the environment. Unfortunately, it cannot make the changes on its own so the output from dmalloc should be sent through the 'eval' shell command which will do the commands.

* Menu:

- * Shell Alias:: Using a shell alias with the utility.
- * Utility Usage:: How to use the dmalloc program.
- * Environment Variable:: Environment variable name and features.
- * Debug Tokens:: Description of the debugging tokens.
- * RC File:: Format of the runtime configuration file.

4.1 Using a Shell Alias with the Utility

=====

The dmalloc program is designed to assist in the setting of the environment variable `DMALLOC\_OPTIONS'. \*Note Environment Variable::. It is designed to print the shell commands necessary to make the appropriate changes to the environment. Unfortunately, it cannot make the changes on its own so the output from dmalloc should be sent through the `eval' shell command which will do the commands.

With shells that have aliasing or macro capabilities: csh, bash, ksh, tcsh, zsh, etc., setting up an alias to dmalloc to do the eval call is recommended. Bash, ksh, and zsh users should add the following to their `.bashrc', `.profile', or `.zshrc' file respectively (notice the `-b' option for bourne shell output):

```
function dmalloc { eval `command dmalloc -b $*`; }
```

If your shell does not support the `command' function then try:

```
function dmalloc { eval `dmalloc -b $*`; }  
or  
function dmalloc { eval `/usr/local/bin/dmalloc -b $*`; }
```

If you are still using csh or tcsh, you should add the following to your `.cshrc' file (notice the `-C' option for c-shell output):

```
alias dmalloc 'eval `dmalloc -C \!*`'
```

This allows the user to execute the dmalloc command as `dmalloc arguments'.

Users of versions of the Bourne shell (usually known as /bin/sh) that don't have command functions will need to send the output to a temporary file and then read it back in with the "." command:

```
$ dmalloc -b arguments ... > /tmp/out  
$ ./tmp/out
```

By the way, if you are looking for a shell, I heartily recommend trying out zsh. It is a bourne shell written from scratch with much the same features as tcsh without the csh crap.

NOTE: After you add the alias to the file you need to log out and

log back in to have it take effect, or you can execute the above appropriate command on the command line. If you enter ``dmalloc runtime'` and see any output with `DMALLOC_OPTIONS` in it then the alias did not work.

File: `dmalloc.info`, Node: Utility Usage, Next: Environment Variable, Prev: Shell Alias, Up: Dmalloc Program

4.2 How to Use the Dmalloc Program

=====

The most basic usage for the program is ``dmalloc [-bC] tag'`. The ``-b'` or ``-C'` (either but not both flags used at a time) are for generating Bourne or C shell type commands respectively. `dmalloc` will try and use the ``SHELL'` environment variable to determine whether bourne or C shell commands should be generated but you may want to explicitly specify the correct flag.

The ``tag'` argument to `dmalloc` should match a line from the user's runtime configuration file or should be one of the built-in tags.

*Note RC File:: If no tag is specified and no other option-commands used, `dmalloc` will display the current settings of the environment variable. It is useful to specify one of the verbose options when doing this.

To find out the usage for the debug malloc program try ``dmalloc --usage-long'`. The standardized usage message that will be displayed is one of the many features of the `argv` library included with this package.

It is available on the web at URL ``http://256.com/sources/argv/'`. See the documentation there for more information.

Here is a detailed list of the flags that can be passed to `dmalloc`:

``-a`

address'

Set the ``addr'` part of the ``DMALLOC_OPTIONS'` variable to address (or alternatively address:number).

``-b'`

Output Bourne shell type commands. Usually handled automatically.

``-C'`

Output C shell type commands. Usually handled automatically.

``-c'`

Clear/unset all of the settings not specified with other

arguments. You can do this automatically when you set to a new tag with the ``-r'` option.

`_NOTE_`: clear will never unset the ``debug'` setting. Use ``-d 0'` or a tag to ``none'` to achieve this.

``-d bitmask'`

Set the ``debug'` part of the ``DMALLOC_OPTIONS'` env variable to the bitmask value which should be in hex. This is overridden (and unnecessary) if a tag is specified.

``-D'`

List all of the debug-tokens. Useful for finding a token to be used with the ``-p'` or ``-m'` options. Use with ``-v'` or ``-V'` verbose options.

``-e errno'`

Print the dmalloc error string that corresponds to the error number `errno`.

``-f filename'`

Use this configuration file instead of the RC file ``$HOME/.dmallocrc'`.

``-g'`

Output

gdb type commands for using inside of the gdb debugger.

``-h (or --help)'`

Output a help message for the utility.

``-i number'`

Set the checking interval to number. If the ``check-heap'` token is enabled, this causes the library to only check the heap every Nth time which can significantly increase the running speed of your program. If a problem is found, however, this limits your ability to determine when the problem occurred. Try values of 50 or 100 initially.

``-k'`

Do not reset all of the settings when a tag is specified. This specifically overrides the ``-r'` option and is provided here to override ``-r'` if it has been added to the dmalloc alias.

``-l filename'`

Write the debugging output and other log-file information to the filename. Filename can include some of the following patterns which get expanded into strings:

``%h'`

Gets expanded into the hostname if the ``gethostname()'` function is available.

``%i'`

Gets expanded into the thread-id if the library has been configured to be used with threads. *Note Using With Threads:: See the end of the ``settings.dist'` file for settings which return the thread-id and convert it into a string.

``%p'`

Gets expanded into the process-id if the ``getpid()'` function is available.

``%t'`

Gets expanded into the time value in seconds if the ``time()'` function is available.

``%u'`

Gets expanded into the user-id number if the ``getuid()'` function is available.

Some examples:

logfile produced with pid extension:

logfile.8412 or logfile.31451

`dmalloc -l logfile.%p`

hostname and time extensions:

dmalloc-box1.foo.com-1055213240

`dmalloc -l dmalloc-%h-%t`

if threads enabled, have thread-id extension: log.thread32

`dmalloc -l log.thread%i`

``-L'`

Write the debug-value into the environment not in hex but by individual debug-tokens in long form.

``-m token(s)'`

Remove (minus) the debug capabilities of token(s) from the current debug setting or from the selected tag (or ``-d'` value). Multiple ``-m'` options can be specified.

``-M`

`limit'`

Set the memory allocation limit which will abort the program if the total memory allocations exceed this number of bytes. The limit can be a number with a k, m, or g at the end to indicate kilobyte, megabyte, and gigabyte respectively. Ex: 100k, 200m, 1g. If the limit is exceeded, this will generate an ``ERROR_OVER_LIMIT'` error.

*Note Error Codes::.

``-n'`

Without changing the environment, output the commands resulting from the supplied options.

``-o times'`

Set the "lock-on" period which dictates to the threaded version of the library to not initialize or lock the mutex lock around the library until after a certain number of allocation calls have been made. Some number between 2 and 30 is probably good. See the "Using With Threads" section for more information about the operation of the library with threads. *Note Using With Threads::.

``-p token(s)'`

Add (plus) the debug capabilities of token(s) to the current debug setting or to the selected tag (or ``-d'` value).

Multiple ``-p'`

options can be specified.

``-r'`

Remove (unset) all settings when using a tag. This is useful when you are returning to a standard development tag and want the logfile, address, and interval settings to be cleared automatically. If you want this behavior by default, this can be put into the `dmalloc` alias.

``-R'`

Output rc shell type commands. This is not for the runtime configuration file but for the rc shell program.

``-s file:line'`

Set the ``start'` part of the ``DMALLOC_OPTIONS'` env variable to a file-name and line-number location in the source where the library should begin more extensive heap checking. The file and line numbers for heap transactions must be working for this option to be obeyed. This is used if you are trying to locate a problem and you want the extensive checking to not happen initially because it's too slow.

``-S number'`

Set the 'start' part of the 'DMALLOC_OPTIONS' env variable to an dmalloc mark number. The library will begin more extensive heap checking after this number of memory transactions. If you 'LOG_ITERATION' enabled in your 'settings.h' file then the entries in the log file will be prepended with the number of memory transactions that the library has handled so far. This number can be used to delay the start of the fine grained heap checking which can be very slow.

'--start-size size'

Set the 'start' part of the 'DMALLOC_OPTIONS' env variable to a number of bytes. The library will begin more extensive heap checking after this amount of memory has been allocated by the library. This allows you to start the slow and detailed checking of the library later in the program execution. You can use patterns like 250m, 1g, or 102k to mean 250 megabytes, 1 gigabyte, and 102 kilobytes respectively.

'-t'

List all of the tags in the rc-file. Use with '-v' or '-V' verbose options.

'-u (or --usage)'

Output the usage information for the utility.

'-v'

Give verbose output. Especially useful when dumping current settings or listing all of the tags.

'-V'

Give very verbose output for outputting even more details about settings.

'--version'

Output the version string for the utility. Please note that the version of the library that is installed or has been linked into your application may be different from the utility version.

If no arguments are specified, dmalloc dumps out the current settings that you have for the environment variable. For example:

Debug-Flags '0x40005c7' (runtime)

Address 0x1f008, count = 3

Interval 100

Logpath 'malloc'

Start-File not-set

With a -v option and no arguments, dmalloc dumps out the current settings in a verbose manner. For example:

```
Debug-Flags '0x40005c7' (runtime)
log-stats, log-non-free, log-bad-space, check-fence, catch-null
Address 0x1f008, count = 10
Interval 100
Logpath 'malloc'
Start-File not-set
```

Here are some examples of dmalloc usage:

```
# start tough debugging, check the heap every 100 times,
# send the log information
# to file 'logfile'
dmalloc high -i 100 -l logfile
```

```
# find out what error code 20 is (from the logfile)
dmalloc -e 20
```

```
# cause the library to halt itself when it sees the address 0x34238
# for the 6th time.
dmalloc -a 0x34238:6
```

```
# send the log information to file 'logfile' with the time in seconds
# as an extension.
dmalloc -l logfile.%t
```

```
# return to the normal 'runtime' settings and clear out all
# other settings
dmalloc -c runtime
```

```
# enable basic 'low' settings plus (-p) the logging of
# transactions (log-trans) to file 'logfile'
dmalloc low -p log-trans -l logfile
```

```
# print out the current settings with Very-verbose output
dmalloc -V
```

```
# list the available debug malloc tokens with Very-verbose output
dmalloc -DV
```

```
# list the available tags from the rc file with verbose output
dmalloc -tv
```


4.3 Environment Variable Name and Features

=====

An

"environment variable" is a variable that is part of the user's working environment and is shared by all the programs. The `DMALLOC\_OPTIONS' variable is used by the dmalloc library to enable or disable the memory debugging features, at runtime. \_NOTE: you can also use the `dmalloc_debug_setup' function to set the option string. It can be set either by hand or with the help of the dmalloc program.

*Note Dmalloc Program::

To set it by hand, Bourne shell (sh, bash, ksh, or zsh) users should use:

```
DMALLOC_OPTIONS=value
export DMALLOC_OPTIONS
```

C shell (csh or tcsh) users need to invoke:

```
setenv DMALLOC_OPTIONS value
```

The value in the above examples is a comma separated list of tokens each having a corresponding value. The tokens are described below:

`debug'

This should be set to a value in hexadecimal which corresponds to the functionality token values added together. *Note Debug Tokens:: For instance, if the user wanted to enable the logging of memory transactions (value `0x008') and wanted to check fence-post memory (value `0x400') then `debug' should be set to `0x408' (`0x008' + `0x400').

_NOTE: You don't have to worry about remembering all the hex values of the tokens because the dmalloc program automates the setting of this variable especially.

_NOTE: You can also specify the debug tokens directly, separated by commas. *Note Debug Tokens:: If `debug' and the tokens are both used, the token values will be added to the debug value.

`lockon'

Set this to a number which is the "lock-on" period. This dictates to the threaded version of the library to not initialize or lock the mutex lock around the library until after a certain number of

allocation calls have been made. See the "Using With Threads" section for more information about the operation of the library with threads. *Note Using With Threads::.

``log'`

Set this to a filename so that if ``debug'` has logging enabled, the library can log transactions, administration information, and/or errors to the file so memory problems and usage can be tracked.

To get different logfiles for different processes, you can assign ``log'` to a string with ``%d'` in it (for instance ``logfile.%d'`). This will be replaced with the pid of the running process (for instance ``logfile.2451'`).

`_WARNING_`: it is easy to core dump any program with `dmalloc`, if you send in a format with arguments other than the one ``%d'`.

``addr'`

When this is set to a hex address (taken from the `dmalloc` log-file for instance) `dmalloc` will abort when it finds itself either allocating or freeing that address.

The address can also have an ``:number'` argument. For instance, if it was set it to ``0x3e45:10'`, the library will kill itself the 10th time it sees address ``0x3e45'`. By setting the number argument to 0, the program will never stop when it sees the address. This is useful for logging all activity on the address and makes it easier to track down specific addresses not being freed.

This works well in conjunction with the ``STORE_SEEN_COUNT'` option.

*Note Memory Leaks::.

`_NOTE_`: `dmalloc` will also log all activity on this address along with a count.

``inter'`

By setting this to a number X, `dmalloc` will only check the heap every X times. This means a number of debugging features can be enabled while still running the program within a finite amount of time.

A setting of ``100'` works well with reasonably memory intensive programs. This of course means that the library will not catch errors exactly when they happen but possibly 100 library calls later.

``start'`

Set this to a number X and `dmalloc` will begin checking the heap after X times. This means the intensive debugging can be started after a certain point in a program.

``start'` also has the format ``file:line'`. For instance, if it is set to ``dmalloc_t.c:126'` `dmalloc` will start checking the heap after it sees a `dmalloc` call from the ``dmalloc_t.c'` file, line number 126. If you use ``dmalloc_t.c:0'`, with a 0 line number, then `dmalloc` will start checking the heap after it sees a call from anywhere in the ``dmalloc_t.c'` file.

This allows the intensive debugging to be started after a certain routine or file has been reached in the program.

Some examples are:

```
# turn on transaction and stats logging and set
# 'logfile' as the log-file
setenv DMALLOC_OPTIONS log-trans,log-stats,log=logfile

# enable debug flags 0x1f as well as heap-checking and
# set the interval to be 100
setenv DMALLOC_OPTIONS debug=0x1f,check-heap,inter=100

# enable 'logfile' as the log-file, watch for
# address '0x1234', and start checking when we see
# file.c line 123
setenv DMALLOC_OPTIONS log=logfile,addr=0x1234,start=file.c:123
```

File: `dmalloc.info`, Node: Debug Tokens, Next: RC File, Prev: Environment Variable, Up: Dmalloc Program

4.4 Description of the Debugging Tokens

=====

The below tokens and their corresponding descriptions are for the setting of the debug library setting in the environment variable.

*Note Environment Variable::

They should be specified in the user's

``dmallocrc'` file. *Note RC File::

Each token, when specified, enables a specific debugging feature. For instance, if you have the ``log-stats'` token enabled, the library will log general statistics to the logfile.

To get this information on the fly, use ``dmalloc -DV'`. This will

print out the Debug tokens in Very-verbose mode. *Note Dmalloc Program::.

`none'

No debugging functionality

`log-stats'

Log general statistics when `dmalloc_shutdown` or `dmalloc_log_stats` is called.

`log-non-free'

Log non-freed memory pointers when `dmalloc_shutdown` or `dmalloc_log_unfreed` is called.

`log-known'

Log only known memory pointers that have not been freed. Pointers which do not have file/line or return-address information will not be logged.

`log-trans'

Log general memory transactions (quite verbose).

`log-admin'

Log administrative information (quite verbose).

`log-bad-space'

Log actual bytes in and around bad pointers.

`log-nonfree-space'

Log
actual bytes in non-freed pointers.

`log-elapsed-time'

Log elapsed-time for allocated pointers (see ``conf.h'`).

`log-current-time'

Log current-time for allocated pointers (see ``conf.h'`).

`check-fence'

Check fence-post memory areas.

`check-heap'

Verify heap administrative structure.

`check-blank'

Check to see if space that was blanked when a pointer was allocated or when it was freed has been overwritten. If this is enabled then it will enable ``free-blank'` and ``alloc-blank'`

automatically.

``check-funcs'`

Check the arguments of some functions (mostly string operations) looking for bad pointers.

``check-shutdown'`

Check all of the pointers in the heap when the program exits.

``catch-signals'`

Shutdown the library automatically on SIGHUP, SIGINT, or SIGTERM. This will cause the library to dump its statistics (if requested) when you press control-c on the program (for example).

``realloc-copy'`

Always copy data to a new pointer when realloc.

``free-blank'`

Write special "dmalloc-free" byte (hexadecimal ``0xdf'`, octal ``0337'`, decimal ``223'`) into space when it is freed. You can set this to be something else in the ``settings.dist'` file. This ensures that your program is not using memory after it has been freed. You can check to see if areas have been improperly overwritten with the ``check-blank'` token. If the free space has been overwritten, then ``ERROR_FREE_OVERWRITTEN'` is triggered.
*Note Error Codes::.

``error-abort'`

Abort the program (and dump core) on errors. See ``error-dump'` below. *Note Dumping Core::.

``alloc-blank'`

Write special "dmalloc-alloc" byte (hexadecimal ``0xda'`, octal ``0332'`, decimal ``218'`) into space when it is allocated. You can set this to be something else in the ``settings.dist'` file. If you are not using ``calloc'` this will overwrite the user space with the special bytes ensuring that your program is initializing its dynamic memory appropriately. Also, if you ask for 35 bytes and the library has to give you a block of 64 because of rounding issues, it will overwrite the extra memory with the special byte. You can then check to see if the extra areas have been improperly overwritten by enabling the ``check-blank'` token.

``print-messages'`

Log any errors and messages to the screen via standard-error.

``catch-null'`

Abort the program immediately if the library fails to get more heap space from the heap allocation routine ``mmap'` or ``sbrk'`.

``never-reuse'`

Have the heap never use space that has been used before and freed.

**Note Memory Leaks::* `_WARNING_`: This should be used with caution since you may run out of heap space.

``error-dump'`

Dump core on error and then continue. Later core dumps overwrite earlier ones if the program encounters more than one error. See ``error-abort'` above. **Note Dumping Core::*

`_NOTE_`: This will only work if your system supports the ``fork'` system call and the configuration utility was able to fork without going recursive.

``error-free-null'`

By default the library will not generate an error when a program tries

to free a NULL pointer. By enabling this token, you can change this behavior so an error is reported. See also the `ALLOW_FREE_NULL` and `ALLOW_FREE_NULL_MESSAGE` settings in the ``settings.h'` file to change the default behavior.

File: `dmalloc.info`, Node: RC File, Prev: Debug Tokens, Up: Dmalloc Program

4.5 Format of the Runtime Configuration File

=====

By using a "RC File" (or runtime configuration file) you can alias tags to combinations of debug tokens. **Note Debug Tokens::*

`_NOTE_`: For beginning users, the `dmalloc` program has a couple of tags built into it so it is not necessary for you to setup a RC file:

``runtime'`

Enables basic runtime tests including fence-post checking, null handling, and logging of any errors.

``low'`

Runtime settings plus minimal checking of heap structures and overwriting of allocated and freed space.

``medium'`

Low settings plus checking of all heap structures on each memory call, always relocates block on realloc, and aborts on errors.
You may want to use '-i' option to the dmalloc utility. *Note
Dmalloc Program::.

'high'

Medium settings plus checking of overwritten freed and allocated memory and checking of arguments to a number of common functions.
You may want to use '-i' option to the dmalloc utility. *Note
Dmalloc Program::.

For expert users, a sample 'dmallocrc' file has been provided but you are encouraged to roll your own combinations. The name of default rc-file is '\$HOME/.dmallocrc'. The '\$HOME' environment variable should be set by the system to point to your home-directory.

The file should contain lines in the general form of:

tag token1, token2, ...

'tag' is to be matched with the tag argument passed to the dmalloc program, while 'token1, token2, ...' are debug capability tokens.
*Note Dmalloc Program::, *Note Debug Tokens::.

A line can be finished with a '\\' meaning it continues onto the next line. Lines beginning with '#' are treated as comments and are ignored along with empty lines.

Here is an example of a '.dmallocrc' file:

```
#
# Dmalloc runtime configuration file for the debug malloc library
#

# no debugging
none none

# basic debugging
debug1 log-stats, log-non-free, check-fence

# more logging and some heap checking
debug2 log-stats, log-non-free, log-trans, \
check-fence, check-heap, error-abort

# good utilities
```

```
debug3 log-stats, log-non-free, log-trans, \
log-admin, check-fence, check-heap, realloc-copy, \
free-blank, error-abort

...
```

For example, with the above file installed, you can type `dmalloc debug1' after setting up your shell alias. *Note Dmalloc Program::. This enables the logging of statistics, the logging of non-freed memory, and the checking of fence-post memory areas.

Enter `dmalloc none' to disable all memory debugging features.

File: dmalloc.info, Node: Source Code, Next: Troubleshooting, Prev: Dmalloc Program, Up: Top

5 Information on the Source Code

* Menu:

*

Definitions::	Definition of terms and other information.
* Compatibility::	General compatibility concerns.
* Portability::	Issues important for porting the library.

File: dmalloc.info, Node: Definitions, Next: Compatibility, Prev: Source Code, Up: Source Code

5.1 Definition of Terms and other Information

=====

Here are a couple definitions and other information for those interested in "picking the brain" of the library. The code is a little ugly here and there and it conforms to the Gray-Watson handbook of coding standards only.

"bblock"

basic block containing $2^{\text{BASIC\_BLOCK}}$ bytes of info

"bblock_adm"

administration for a set of basic blocks

"dblock"

divided block containing some base 2 number of blocks smaller than a basic block.

"dblock_adm"

administration for a set of divided blocks

"chunk"

some anonymous amount of memory

For more information about administration structures,
see the code
and comments from ``chunk_loc.h'`.

File: [dmalloc.info](#), Node: [Compatibility](#), Next: [Portability](#), Prev: [Definitions](#), Up: [Source Code](#)

5.2 General Compatibility Concerns

=====

* `Realloc()` backwards compatibility with being able to `realloc` from the last freed block is `_not_` supported. The author is interested to know who is using this (cough, cough) feature and for what reason.

* `Realloc()` of a `NULL` pointer is supported in which case the library will just make a call to `malloc()`. This can be disabled with the help of the ``ALLOW_REALLOC_NULL'` manual compilation option in the ``settings.h'` file to adjust the library's default behavior.

* Some systems allow `free(0)` to not be an error for some reason. Since 0 is not a valid address returned by the `malloc` call, it is debatable that this should be allowed. See ``settings.h'` for the ``ALLOW_FREE_NULL'` manual compilation option to adjust the library's default behavior.

* Aside from possibly being slower than the system's memory allocation functions, the library should be fully compatible with the standard memory routines. If this is `_not_` the case, please bring this to my attention.

File: [dmalloc.info](#), Node: [Portability](#), Prev: [Compatibility](#), Up: [Source Code](#)

5.3 Issues Important for Porting the Library

=====

General portability issues center around:

* `mmap`, `sbrk`, or compatible function usages. The library does support a preallocated memory chunk heap. See the ``INTERNAL_MEMORY_SPACE'` define in the ``settings.dist'` file.

* The locating of the caller's address from the dmalloc functions. This is useful in locating problems from dmalloc functions called from C files which did not include `dmalloc.h': C library calls for instance.

See `return.h' for the available architecture/compiler combinations. You may want to examine the assembly code from gcc (GNU's superior c-compiler) version 2+ being run on the following code. It should give you a good start on building a hack for your box.

```
static char * x;

a()
{
x = __builtin_return_address(0);
}

main()
{
a();
}
```

6 Some Solutions to Common Problems

This section provides some answers to some common problems and questions. Please send me mail with any additions to this list - either problems you are still having or tips that you would like to pass on.

When diagnosing a problem, if possible, always make sure you are running the most up to date version of Dmalloc available from the home page at URL `<http://dmalloc.com/>'. Problems are often fixed and a new release can be published before people encounter them.

`Why does my program run so slow?'

This library has never been (and maybe never will be) optimized for space nor speed. Some of its features make it unable to use some of the organizational methods of other more efficient heap libraries.

If you

have the ``check-heap'` token enabled, your program might run slow or seem to hang. This is because by default, the library will run a full check of the heap with every memory allocation or free. You can have the library check itself less frequently by using the ``-i'` option to the `dmalloc` utility. **Note Dmalloc Program::*. If you are using the ``high'` token and you need your program to run faster, try the ``medium'` or ``low'` tokens which don't check as many heap features and so run faster although they will not catch as many problems. **Note RC File::*.

``Why was a log-file not produced after I ran my program?'`
This could be caused by a number of different problems.

1. Are you sure you followed all of the items in the "Getting Started" section? Please review them if there is any doubt.
**Note Getting Started::*.

2. Use the ``env'` or ``printenv'` commands to make sure that the ``DMALLOC_OPTIONS'` variable is set in your exported environment. **Note Environment Variable::*.

3. Make sure that your
program has been compiled correctly with
the `dmalloc` library. The ``ident'` program should show `chunk.c` and other `dmalloc` files compiled into your program. You can also do ``strings -a your-program | grep chunk.c'` and look for something like ``$Id: chunk.c,v 1.152 1999/08/25 12:37:01 gray`
Exp \$' with different versions and date information. If this doesn't show up then chances are `dmalloc` was not linked into your program.

4. If your program changes its working directory, it may write the `dmalloc` log-file somewhere else in the filesystem. You will need to check both where the program was started and to where it might change directory.

5. The logfile is only produced when ``dmalloc_shutdown()'` is called. By default it will be called when ``exit()'` gets called. If you are running your program and press ``Control-C'` under Unix the program will stop immediately and ``dmalloc_shutdown()'` will not get called. You can either setup a signal handler for ``SIGINTR'` and call `exit` yourself,
or
you can enable the ``catch-signals'` token. **Note Debug Tokens::*.

6. If your program is segfaulting or otherwise crashing when it

exits, the ``exit()`` routine may not be called. You will have to resolve these issues so the `dmalloc` library can gracefully exit and write its log file.

7. You may want to call ``dmalloc_log_stats()`` and ``dmalloc_log_unfreed()`` (or ``dmalloc_log_changed()``) directly to have the library write its log file. Some system modules may not have shutdown if you call this before ``exit()`` so extra unfreed memory may be reported.

``I don't see any information about my non-freed (leaked) memory?'`
The library will not (by default) report on "unknown" non-freed memory. Unknown means memory that does not have associated file and line information.

This will be necessary if you are `_not_` including ``dmalloc.h'` in all of your C files or if you are interested in tracking leaks in system functions.

``Dmalloc is returning the error "malloc library has gone recursive"`

This

most likely indicates that you are using the `Dmalloc` library within a threaded application and two threads are trying to use the `dmalloc` library at once. Please see the section of the manual about threads for more information about properly configuring the library. *Note Using With Threads::.

If you are not using threads, then your program could have caught a signal while within `Dmalloc`, which then in turn called a memory allocation routine. It is unwise to allocate memory on the heap in most signal handlers. Lastly, some functions called by the library may call memory routines that it does not anticipate. If you think this the case, please report the problem and include a stack trace, operating system version/type, and the version of `Dmalloc` you are using.

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* /dmalloc-5-5-2-tgz/dmalloc-5.5.2/INSTALL

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

/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/arg_check.c/*

/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/arg_check.h/*

/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/chunk.c/*

```

/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/chunk.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/chunk_loc.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/compat.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/compat.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/conf.h.in/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/configure.ac#
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/contrib/atexit.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-
5.5.2/contrib/dmalloc_summarize.pl#!/usr/bin/perl5
-w
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-
5.5.2/contrib/ra_info.pl#!/usr/bin/perl
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/debug_tok.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc.h.1/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc.spec#
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_argv.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_argv.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_argv_loc.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_fc_t.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_loc.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_rand.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_rand.h/*
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/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_tab.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_tab.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmalloc_tab_loc.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/dmallocc.cc/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-
5.5.2/docs/dmalloc.html<!DOCTYPE
html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html401/loose.dtd">
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/docs/dmalloc.texinput
texinfo @c -*texinfo-*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/env.c/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/env.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/error.c/*
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/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/error_val.h/*
/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/heap.c/*
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/opt/cola/permits/2634257747_1761281997.066193/0/dmalloc-5-5-2-tgz/dmalloc-5.5.2/version.h/*

```

Found

in path(s):

*

1.128 wireless-tools 30.pre9

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1.129 makedumpfile 1.7.1

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1.132 oauthlib 3.2.2

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1.134 python-requests 2.32.3

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1.136 ptyprocess 0.7.0

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1.137 pexpect 4.8.0

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1.138 pycparser 2.21

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pycparser -- A C parser in Python

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1.140 six 1.16.0

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Any executables

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A. HISTORY OF THE SOFTWARE

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

In 1995, Guido continued his work on Python at the Corporation for

National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

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

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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
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2.2 and above				
2.1.1	2001-now	PSF		yes

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1.144 cryptography 36.0.2

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1.150 docker 3.5.0

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1.151 pyproject-hooks 1.0.0

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1.155 python-pip 23.0.1

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This package contains a modified version of ca-bundle.crt:

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

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

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

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

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

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@(#) \$RCSfile: certdata.txt,v

\$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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A. HISTORY OF THE SOFTWARE

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

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

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

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Release	Derived	Year	Owner	GPL-

from		compatible? (1)		
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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1.158 python-certifi 2024.07.04

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This package contains a modified version of ca-bundle.crt:

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

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: <https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt> It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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

1.159 pyopenssl 22.0.0

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1.160 urllib3 2.2.2

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1.161 importlib-metadata 4.11.1

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1.162 mock 4.0.3

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1.163 platformdirs 2.6.2

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1.164 idna 3.3

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1.165 jsonschema 4.4.0

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1.166 distro 1.7.0

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Author: Murali Muniraman <mmuniram@cisco.com>

Date: January 2017

""""

import json
import logging

import pnp.infra.utils.pnp_file_paths as files

logger = logging.getLogger(__name__)

```
def is_platform_device_type(ptype):  
    """ Checks platform.json file to see if deviceType is ptype """  
    platform_info_file = files.filepaths['config']['platform']  
    device_type = None  
    try:  
        with open(platform_info_file, 'r') as f:  
            platform_info = f.read()  
    except IOError:  
        logger.error("IOError: No such file or directory:" + platform_info_file)  
        return False  
    try:  
        platform_dict = json.loads(platform_info)  
        if platform_dict.has_key('hardwareInfo'):  
            hardware_info = platform_dict.get('hardwareInfo')  
            if hardware_info.has_key('deviceType'):
```

```

        device_type = hardware_info.get('deviceType')
    except ValueError as e:
        logger.error(str(e))

    logger.info("Device is of type %s", device_type)
    return bool(device_type == ptype)

```

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Author: Murali Muniraman <mmuniram@cisco.com>
 Date: January 2017

This file contains constants for the cheetah platform.

```

CHEETAH_DEVICE_TYPE_AP = "AP"
CHEETAH_DEVICE_TYPE_ME = "ME"
CHEETAH_DEVICE_TYPE_SENSOR = "sensor"

```

```

CHEETAH_SENSOR_WIRELESS_BACKHAUL_CONNECTION =
"/tmp/wireless_backhaul_connection_success"

```

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license='Cisco Proprietary',

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 pnp_pd_dev/pnp_cheetah/pnp_platform/services/config_upgrade.py

```
* /thirdparty-pnp-pnp-pd-dev-zip/thirdparty_pnp-pnp_pd_dev/pnp_cheetah/pnp_platform/services/cli_config.py
* /thirdparty-pnp-pnp-pd-dev-zip/thirdparty_pnp-pnp_pd_dev/pnp_cheetah/pnp_platform/infra/device.py
* /thirdparty-pnp-pnp-pd-dev-zip/thirdparty_pnp-pnp_pd_dev/pnp_cheetah/pnp_platform/discovery/notify.py
* /thirdparty-pnp-pnp-pd-dev-zip/thirdparty_pnp-pnp_pd_dev/pnp_cheetah/pnp_platform/services/cli_exec.py
*
/thirdparty-pnp-pnp-pd-dev-zip/thirdparty_pnp-pnp_pd_dev/pnp_cheetah/pnp_platform/infra/clock_sync.py
* /thirdparty-pnp-pnp-pd-dev-zip/thirdparty_pnp-pnp_pd_dev/pnp_cheetah/pnp_platform/services/image_install.py
* /thirdparty-pnp-pnp-pd-dev-zip/thirdparty_pnp-
pnp_pd_dev/pnp_cheetah/pnp_platform/infra/platform_constants.py
* /thirdparty-pnp-pnp-pd-dev-zip/thirdparty_pnp-pnp_pd_dev/pnp_cheetah/pnp_platform/infra/capwap.py
```

1.168 pyasn1 0.4.8

1.168.1 Available under license :

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Found in path(s):

```
* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/LICENSE.rst
```

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

```
# License: http://snmplabs.com/pyasn1/license.html
```


Found in path(s):

- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/encoder.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/base.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/decoder.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/native/test_decoder.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/type/__main__.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/codec/native/decoder.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/compat/binary.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/type/tag.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/compat/test_octets.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/error.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/debug.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/type/constraint.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/codec/native/encoder.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/der/__main__.py
- *
- /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/__main__.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/compat/__main__.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/encoder.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/type/test_univ.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/type/char.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/native/__main__.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/compat/test_binary.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/compat/test_integer.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/type/base.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/type/error.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/type/useful.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/type/test_namedval.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/type/test_tag.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/type/namedtype.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/der/test_decoder.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/ber/__main__.py
- *
- /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/type/opentype.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/ber/test_encoder.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/type/test_useful.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/type/test_char.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/type/test_constraint.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/test_debug.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/encoder.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/compat/calling.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/compat/octets.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/__main__.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/type/test_namedtype.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/compat/integer.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/compat/string.py
- * /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/native/test_encoder.py

```

* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/cer/test_encoder.py
*
/pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/der/test_encoder.py
* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/eoo.py
* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/type/namedval.py
* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/ber/test_decoder.py
* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/cer/test_decoder.py
* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/type/test_opentype.py
* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/type/univ.py
* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/type/tagmap.py
* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/tests/codec/cer/__main__.py
* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/decoder.py
* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/decoder.py
* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/setup.py
* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/compat/dateandtime.py

```

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ASN.1 library for Python

```

-----
[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)
[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)
[![Build status](https://travis-ci.org/etingof/pyasn1.svg?branch=master)](https://secure.travis-ci.org/etingof/pyasn1)
[![Coverage
Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)](https://codecov.io/github/etingof/pyasn1)
[![GitHub license](https://img.shields.io/badge/license-BSD-
blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

```

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

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

Features

```

-----
*
Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

```

Why using pyasn1

```

-----

```

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

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

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>)
by
Olivier Dubuisson is one of those high quality books freely available on the Internet.

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

How to use pyasn1

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

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

Could be expressed in pyasn1 like this:

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

```

```

 'house',
Integer(0).subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
)
)
)
'''

```

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

```

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

```

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

```

'''python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
'''

```

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

```

'''python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>> print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
'''

```

```

house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...

```

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

```

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

```

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

```

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

```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

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

How to get pyasn1

-----

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

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

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

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Found in path(s):  
\* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/README.md  
No license file was found, but licenses were detected in source scan.

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

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\* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1.egg-info/PKG-INFO  
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.. \_license:

License

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ASN.1 library for Python

=====

.. toctree::

:maxdepth: 1

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 became a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

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

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

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

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

#### ASN.1 applications

-----

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

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)
- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)



- \* Biometrics (BIP, CBEFF, ACBio)
- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

## ASN.1 gotchas

-----

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

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

## Documentation

-----

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

[/pyasn1/contents](#)

## Use case

-----

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

[/example-use-case](#)

## Download & Install

-----

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

[/download](#)

## Changes

-----

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

..

toctree::

:maxdepth: 1

/changelog

License

-----

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

.. toctree::

:maxdepth: 2

/license

Getting help

-----

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`\_

and `PRs` <<https://github.com/etingof/pyasn1/pulls>>`\_ at GitHub.

Alternatively, you could ask for help at

`Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>`\_

or search

`pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>`\_

mailing list archive.

Books on ASN.1

-----

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

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

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

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

\* `ITU standards`

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

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

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

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

Found in path(s):

\* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/docs/source/contents.rst

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## 1.170 tftpy 0.8.2

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#### A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python

releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
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| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
| 2.5.1          | 2.5          | 2007      | PSF        | yes                 |
| 2.5.2          | 2.5.1        | 2008      | PSF        | yes                 |
| 2.5.3          | 2.5.2        | 2008      | PSF        | yes                 |
| 2.6            | 2.5          | 2008      | PSF        | yes                 |
| 2.6.1          | 2.6          | 2008      | PSF        | yes                 |
| 2.6.2          | 2.6.1        | 2009      | PSF        | yes                 |
| 2.6.3          | 2.6.2        | 2009      | PSF        | yes                 |
| 2.6.4          | 2.6.3        | 2009      | PSF        | yes                 |
| 2.6.5          | 2.6.4        | 2010      | PSF        | yes                 |
| 3.0            | 2.6          | 2008      | PSF        | yes                 |
| 3.0.1          | 3.0          | 2009      | PSF        | yes                 |
| 3.1            | 3.0.1        | 2009      | PSF        | yes                 |
| 3.1.1          | 3.1          | 2009      | PSF        | yes                 |
| 3.1.2          | 3.1          | 2010      | PSF        | yes                 |
| 3.2            | 3.1          | 2010      | PSF        | yes                 |

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=====  
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=====

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

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

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## 1.172 tomli 2.0.1

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# 1.176 python-requests 2.28.2

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## 1.177 futures 3.4.0

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## 1.178 websocket-client 1.3.2

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## 1.182 jsonschema 2.5.1

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## 1.183 urllib3 1.26.14

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## 1.184 pnp 3.0.0.dev16

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## 1.185 python-certifi 2022.12.07

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This package contains a modified version of ca-bundle.crt:

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

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

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

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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# 1.187 decorator 5.1.1

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# 1.190 cherrypy 10.0.1

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