



Open Source Used In NX-OS System Software 9.3(9)

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1.4 log4cxx 0.10.0

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1.6 Isof 4.85 r1

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```
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1.9 ethtool 2.6.36 r0

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

one line to give the program's name and an idea of what it does.
Copyright (C) yyyy name of author

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

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

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

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision'

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

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

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ethtool is available under the terms of the GNU Public License version 2.

See COPYING for details.

1.10 gawk 4.0.0 r1

1.10.1 Available under license :

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
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your libraries, too.

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this service if you wish), that you receive source code or can get it
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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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

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

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

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

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

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

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

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

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

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

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

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.

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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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a)

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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<signature of Ty Coon>, 1 April 1990
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Version 3, 29 June 2007

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

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The System Libraries of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A Major Component, in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The Corresponding Source for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work.

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1.11 ncurses 5.9

1.11.1 Available under license :

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1.12 beecrypt 4.2.1 r3

1.12.1 Available under license :

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Version 2.1, February 1999

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1.14 tcp-wrappers 7.6 r10

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1.15 modutils-initscripts 1.0 r6

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1.16 bzip2 1.0.6 12.el7

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

1.17 coreutils 8.22 11.e17

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1.25 libcap-ng 0.7.3 5.el7

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1.26 libsemanage-common 2.1.10 16.el7

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1.29 shared-mime-info 1.1 7.el7

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1.30 sqlite 3.7.17 4.e17

1.31 strace 4.8 7.e17

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1.32 tcpdump 4.5.1 2.e17

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1.33 telnet 0.17 59.el7

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1.34 zlib 1.2.7 13.el7

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```
-----
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.7, May 2nd, 2012
```

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

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

*/

1.35 cronie 1.4.11 13.el7

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- *
- * @(#)bitstring.h 8.1 (Berkeley) 7/19/93
- */

1.36 xz 5.1.2 9alpha.el7

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1.39 net-snmp 5.1

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1.40 bash 4.2.46 12.e17

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From friedman@cli.com Thu May 25 12:19:06 1995

Flags: 10

Return-Path: friedman@cli.com

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id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)

Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)

id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)

Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)

id AA27213; Thu, 25 May 95 11:18:25 CDT

Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT

Message-Id: <9505251618.AA16031@tepui.cli.com>

From: friedman@gnu.ai.mit.edu (Noah Friedman)

To: chet@po.cwru.edu

Subject: Bash scripts

Reply-To: friedman@gnu.ai.mit.edu

In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400

References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>

Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged

some of your bash functions from your home directory on

>the FSF machines (naughty, I know), and I was wondering if you'd let

>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in

~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

From spcedt@armory.com Wed May 10 10:21:11 1995

Flags: 10

Return-Path: spcedt@armory.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTTP (8.6.10+cwru/CWRU-2.1-ins)

id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcedt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcedt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcedt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcedt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

```
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in
} the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
```

```
} Chet Ramey
}
} --
} ``The lyf so short, the craft so long to lerne." - Chaucer
}
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
}-- End of excerpt from Chet Ramey
```

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From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

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1.41 binutils 2.23.52.0.1 30.el7_1.1

1.41.1 Available under license :

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<signature of Ty Coon>, 1 April 1989
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Ty Coon, President of Vice
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If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:

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

@c End:

(This file is under construction.) -*- text -*-

If you've contributed to gas and your name isn't listed here, it is

not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith

Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS

code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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

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

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

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

Any

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit

modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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```
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```

```
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```
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```

```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
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Version 3, 29 June 2007

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The

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section 10

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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

@end enumerate

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However,

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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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@end enumerate

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@end enumerate

@iftex

@heading END OF TERMS AND CONDITIONS

@end iftex

@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
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1.42 ca-certificates 2014.1.98 72.el7

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1.44 glib 2.40.0 4.e17

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1.45 iproute 3.10.0 21.el7

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*
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```

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*

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1.49 pcre 8.32 14.el7

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1.51 python-urlgrabber 3.10 6.e17

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The

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```

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```
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1.57 acl 2.2.51 r5

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1.58 attr 2.4.46 r5

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1.59 base-passwd 3.5.24 r0.2

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Files: update-passwd.c, man/*

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

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
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```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.60 bash 4.2 r8

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From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins) id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3) id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1) id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged
some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

From spcedt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcedt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins) id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcedt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3) id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcedt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcedt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)

X-Www: <http://www.armory.com/~spcedt/>
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deephought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

```
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in
} the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}
} --
} ``The lyf so short, the craft so long to lerne." - Chaucer
}
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
}-- End of excerpt from Chet Ramey
```


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Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
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1.61 bzip2 1.0.6 r5

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1.62 coreutils 8.14 r7

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
#!/bin/sh
# make sure `md5sum -c' works for alternate BSD format (md5 -r)

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. "${srcdir=.}/init.sh"; path_prepend_ ../src
print_ver_ md5sum

# Note we start this list with a name
# that's unambiguous in BSD format.
# I.E. one not starting with ' ' or '*'
```

```
for i in 'a' 'b' '*c' 'dd' ' '; do
echo "$i" > "$i"
md5sum
"$i" >> check.md5sum
done
sed 's/ //' check.md5sum > check.md5
```

```
# Note only a single format is supported per run
md5sum --strict -c check.md5sum || fail=1
md5sum --strict -c check.md5 || fail=1
```

```
# If we skip the first entry in the BSD format checksums
# then it'll be detected as standard format and error.
# This unlikely caveat was thought better than mandating
# an option to avoid the ambiguity.
tail -n+2 check.md5 | md5sum --strict -c && fail=1
```

Exit \$fail

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Version 3, 29 June 2007

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1.64 berkeley-db 5.3.15 r7

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```
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 * $Id$  
 */
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* ASM: a very small and fast Java bytecode manipulation framework

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It was downloaded from <<http://www.ch-werner.de/sqliteodbc/>>

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1.65 e2fsprogs 1.42.1 r4

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

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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) $(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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```
#!/bin/sh
```

```
find . -type f \! -name \*~ \! -exec grep -q Begin-Header \{\} \}; -print \  
| grep -v ^./build
```

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

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

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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>.

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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  
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+ Copyright (C) Jeremy Allison      2000-2006  
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```

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Gadi Oxman, August 1995

```
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```
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```

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```
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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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```
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```

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```
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1.69 libpcap 1.2.1 r1.0

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1.70 libffi 3.0.10 r0

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1.71 pam 1.1.5 r7.3

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1.72 iputils s20101006 r6

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```
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```

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1.73 log-rotate 3.8.1 r0.2

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1.74 mtd-utils 1.4.9 r2

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1.75 ncurses 5.9 r13.1

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1.76 netbase 4.47 r2

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* @version 3.0 (December 2000)

*

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

*

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

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

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1.78 ossp-uuid 1.6.2 r1

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##
## uuid_cli.pod: manual page
##

=pod

=head1 NAME

B<OSSP uuid> - B<Universally Unique Identifier Command-Line Tool>

=head1 VERSION

OSSP uuid UUID_VERSION_STR

=head1 SYNOPSIS
```

B<uuid>
[B<-v> I<version>]
[B<-m>]
[B<-n> I<count>]
[B<-l>]
[B<-F> I<format>]
[B<-o> I<filename>]
[I<namespace> I<name>]

B<uuid>
B<-d>
[B<-r>]
[B<-o> I<filename>]
I<uuid>

=head1 DESCRIPTION

B<OSSP uuid> is a ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant I<Universally Unique Identifier>

(UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood of uniqueness over space and time and are computationally difficult to guess. They are globally unique identifiers which can be locally generated without contacting a global registration authority. UUIDs are intended as unique identifiers for both mass tagging objects with an extremely short lifetime and to reliably identifying very persistent objects across a network.

This is the command line interface (CLI) of B<OSSP uuid>. For a detailed description of UUIDs see the documentation of the application programming interface (API) in uuid(3).

=head1 OPTIONS

=over
3

=item B<-v> I<version>

Sets the version of the generated DCE 1.1 variant UUID. Supported

are I<version> "C<1>", "C<3>", "C<4>" and "C<5>". The default is "C<1>".

For version 3 and version 5 UUIDs the additional command line arguments I<namespace> and I<name> have to be given. The I<namespace> is either a UUID in string representation or an identifier for internally pre-defined namespace UUIDs (currently known are "C<ns:DNS>", "C<ns:URL>", "C<ns:OID>", and "C<ns:X500>"). The I<name> is a string of arbitrary length.

=item B<-m>

Forces the use of a random multi-cast MAC address when generating version 1 UUIDs. By default the real physical MAC address of the system is used.

=item B<-n> I<count>

Generate I<count> UUIDs instead of just a single one (the default).

=item B<-1>

If option B<-n> is used with a I<count> greater than C<1>, then this option can enforce the reset the UUID context for each generated UUID. This makes no difference for I<version> C<3>, C<4> and C<5> UUIDs.

But

version C<1> UUIDs are based on the previously generated UUID which is remembered in the UUID context of the API. Option B<-1> deletes the remembered UUID on each iteration.

=item B<-F> I<format>

Representation format for importing or exporting an UUID. The following (case insensitive) format identifiers are currently recognized:

=over 4

=item C<BIN> (binary representation)

This is the raw 128 bit network byte order binary representation of a UUID. Example is the octet stream C<0xF8 0x1D 0x4F 0xAE 0x7D 0xEC 0x11 0xD0 0xA7 0x65 0x00 0xA0 0xC9 0x1E 0x6B 0xF6>.

=item C<STR> (string representation)

This is the 36 character hexadecimal ASCII string representation of a UUID. Example is the string "C<f81d4fae-7dec-11d0-a765-00a0c91e6bf6>".

=item C<SIV> (single integer value representation)

This is the maximum 39 character long single integer value representation of a UUID. Example is the string "C<329800735698586629295641978511506172918>".

=back

=item B<-o> I<filename>

Write

output to I<filename> instead of to F<stdout>.

=item B<-d>

Decode a given UUID (given as a command line argument or if the command line argument is "C<->" the UUID is read from F<stdin>) and dump textual information about the UUID.

=back

=head1 EXAMPLES

```
# generate DCE 1.1 v1 UUID (time and node based)
```

```
$ uuid -v1
```

```
01c47915-4777-11d8-bc70-0090272ff725
```

```
# decode and dump DCE 1.1 v1 UUID (time and node based)
```

```
$ uuid -d 01c47915-4777-11d8-bc70-0090272ff725
```

```
encode: STR: 01c47915-4777-11d8-bc70-0090272ff725
```

```
      SIV: 2349374037528578887923094374772111141
```

```
decode: variant: DCE 1.1, ISO/IEC 11578:1996
```

```
      version: 1 (time and node based)
```

```
      content: time: 2004-01-15 16:22:26.376322.1 UTC
```

```
            clock: 15472 (usually random)
```

```
            node: 00:90:27:2f:f7:25 (global unicast)
```

```
# generate DCE 1.1 v3 UUID (name based)
```

```
$ uuid -v3 ns:URL http://www.ossip.org/
```

```
02d9e6d5-9467-382e-8f9b-9300a64ac3cd
```

```
# decode and dump DCE 1.1 v3 UUID (name based)
```

```
$ uuid -d 02d9e6d5-9467-382e-8f9b-9300a64ac3cd
```

```
encode: STR: 02d9e6d5-9467-382e-8f9b-9300a64ac3cd
```

```
      SIV: 3789866285607910888100818383505376205
```

```
decode: variant: DCE 1.1, ISO/IEC 11578:1996
```

```
      version: 3 (name based, MD5)
```

```
      content: 02:D9:E6:D5:94:67:08:2E:0F:9B:93:00:A6:4A:C3:CD
```

```
            (not decipherable: MD5 message digest only)
```

```
# generate DCE 1.1 v4 UUID 4 (random data based)
$ uuid -v4
eb424026-6f54-4ef8-a4d0-bb658a1fc6cf

# decode and dump DCE 1.1 v4 UUID 4 (random data based)
$ uuid -d eb424026-6f54-4ef8-a4d0-bb658a1fc6cf
encode: STR: eb424026-6f54-4ef8-a4d0-bb658a1fc6cf
      SIV: 312712571721458096795100956955942831823
decode: variant: DCE 1.1, ISO/IEC 11578:1996
      version: 4 (random data based)
      content: EB:42:40:26:6F:54:0E:F8:24:D0:BB:65:8A:1F:C6:CF
      (no semantics: random data only)
```

=head1 SEE ALSO

uuid(3), OSSP::uuid(3).

=cut

Found in path(s):

```
* /opt/cola/permits/105632424_1695285081.5201023/0/ossps-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/uuid_cli.pod
```

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**
** uuid_prng.c: PRNG API implementation
**/
```

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```
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```
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```

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**
** uuid_md5.h: MD5 API definition
**/
```

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```
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```
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```

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**
** uuid.c: PHP/Zend API (language: C)
*/

```

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```
* /opt/cola/permits/105632424_1695285081.5201023/0/oss-p-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/php/uuid.c
```

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--
-- uuid.sql: PostgreSQL Binding (SQL part)

--

--
-- prolog

--

SET search_path TO public;
SET client_min_messages TO warning;

DROP FUNCTION uuid_in(CSTRING) CASCADE;
DROP FUNCTION uuid_out(uuid) CASCADE;
DROP FUNCTION uuid_recv(INTERNAL) CASCADE;
DROP FUNCTION uuid_send(uuid) CASCADE;
DROP TYPE uuid CASCADE;
DROP CAST (CSTRING AS uuid) CASCADE;
DROP CAST (uuid AS CSTRING) CASCADE;

DROP FUNCTION uuid(CSTRING)
CASCADE;
DROP FUNCTION uuid(INTEGER) CASCADE;
DROP FUNCTION uuid(INTEGER, CSTRING, CSTRING) CASCADE;

DROP FUNCTION uuid_eq(uuid) CASCADE;
DROP FUNCTION uuid_ne(uuid) CASCADE;
DROP FUNCTION uuid_lt(uuid, uuid) CASCADE;
DROP FUNCTION uuid_gt(uuid, uuid) CASCADE;
DROP FUNCTION uuid_le(uuid, uuid) CASCADE;
DROP FUNCTION uuid_ge(uuid, uuid) CASCADE;
DROP OPERATOR =(uuid,uuid) CASCADE;
DROP OPERATOR <>(uuid,uuid) CASCADE;
DROP OPERATOR <(uuid,uuid) CASCADE;
DROP OPERATOR >(uuid,uuid) CASCADE;
DROP OPERATOR <=(uuid,uuid) CASCADE;
DROP OPERATOR >=(uuid,uuid) CASCADE;

DROP FUNCTION uuid_hash(uuid) CASCADE;
DROP FUNCTION uuid_cmp(uuid, uuid) CASCADE;
DROP OPERATOR CLASS uuid_ops USING hash

```

        CASCADE;
DROP OPERATOR CLASS uuid_ops USING btree        CASCADE;

BEGIN;

--
-- the UUID data type
--

CREATE FUNCTION
    uuid_in(CSTRING) RETURNS uuid
    STRICT
    LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_in';

CREATE FUNCTION
    uuid_out(uuid) RETURNS CSTRING
    STRICT
    LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_out';

CREATE FUNCTION
    uuid_recv(INTERNAL) RETURNS uuid
    STRICT
    LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_recv';

CREATE FUNCTION
    uuid_send(uuid) RETURNS BYTEA
    STRICT
    LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_send';

CREATE TYPE uuid (
    INPUT  = uuid_in, -- for SQL input
    OUTPUT = uuid_out, -- for SQL output
    RECEIVE = uuid_recv, -- for DB input
    SEND   = uuid_send, -- for DB output
    DEFAULT = 'uuid(1)',
    INTERNALLENGTH = 16,
    ALIGNMENT = char
);

COMMENT ON TYPE uuid
    IS 'UUID type';

-- CREATE CAST (CSTRING AS uuid)
--   WITH FUNCTION uuid_in(CSTRING) AS ASSIGNMENT;
--
-- CREATE CAST (uuid AS CSTRING)
--

```

```

WITH FUNCTION uuid_out(uuid) AS ASSIGNMENT;

--
-- the UUID constructor function
--

CREATE FUNCTION
  uuid(CSTRING) RETURNS uuid
  IMMUTABLE STRICT
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_in';

CREATE FUNCTION
  uuid(INTEGER) RETURNS uuid
  VOLATILE CALLED ON NULL INPUT
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_make';

CREATE FUNCTION
  uuid(INTEGER, CSTRING, CSTRING) RETURNS uuid
  VOLATILE CALLED ON NULL INPUT
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_make';

--
-- the UUID operators
--

CREATE FUNCTION
  uuid_eq(uuid, uuid) RETURNS BOOL
  IMMUTABLE STRICT
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_eq';

CREATE FUNCTION
  uuid_ne(uuid, uuid) RETURNS BOOL
  IMMUTABLE STRICT
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_ne';

CREATE FUNCTION
  uuid_lt(uuid, uuid) RETURNS BOOL
  IMMUTABLE STRICT
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_lt';

CREATE FUNCTION
  uuid_gt(uuid, uuid) RETURNS BOOL
  IMMUTABLE STRICT
  LANGUAGE
  C AS 'MODULE_PATHNAME', 'pg_uuid_gt';

CREATE FUNCTION
  uuid_le(uuid, uuid) RETURNS BOOL

```

```
IMMUTABLE STRICT
LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_le';
```

```
CREATE FUNCTION
  uuid_ge(uuid, uuid) RETURNS BOOL
  IMMUTABLE STRICT
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_ge';
```

```
CREATE OPERATOR = (
  leftarg  = uuid,
  rightarg = uuid,
  negator  = <>,
  procedure = uuid_eq
);
```

```
CREATE OPERATOR <> (
  leftarg  = uuid,
  rightarg = uuid,
  negator  = =,
  procedure = uuid_ne
);
```

```
CREATE OPERATOR < (
  leftarg  = uuid,
  rightarg = uuid,
  commutator = >,
  negator  = >=,
  procedure = uuid_lt
);
```

```
CREATE OPERATOR > (
  leftarg  = uuid,
  rightarg = uuid,
  commutator = <,
  negator  = <=,
  procedure = uuid_gt
);
```

```
CREATE OPERATOR <= (
  leftarg  = uuid,
  rightarg = uuid,
  commutator = >=,
  negator  = >,
  procedure = uuid_le
);
```

```
CREATE OPERATOR >= (
  leftarg  = uuid,
```

```

rightarg = uuid,
commutator = <=,
negator = <,
procedure = uuid_ge
);

--
-- the UUID support for indexing
--

CREATE FUNCTION
  uuid_hash(uuid) RETURNS INTEGER
  IMMUTABLE STRICT
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_hash';

CREATE FUNCTION
  uuid_cmp(uuid, uuid) RETURNS INTEGER
  IMMUTABLE STRICT
  LANGUAGE C AS 'MODULE_PATHNAME', 'pg_uuid_cmp';

CREATE OPERATOR CLASS uuid_ops
  DEFAULT FOR TYPE uuid USING hash AS
  OPERATOR 1 =, -- 1: equal
  FUNCTION 1 uuid_hash(uuid);

CREATE OPERATOR CLASS uuid_ops
  DEFAULT FOR TYPE uuid USING btree AS
  OPERATOR 1 <, -- 1: less than
  OPERATOR 2 <=, -- 2: less than or equal
  OPERATOR 3 =, -- 3: equal
  OPERATOR 4 >=, -- 4: greater than or equal
  OPERATOR 5 >, -- 5: greater than
  FUNCTION 1 uuid_cmp(uuid, uuid);

--
-- epilog
--

COMMIT;

Found in path(s):
* /opt/cola/permits/105632424_1695285081.5201023/0/ossps-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/pgsql/uuid.sql.in
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## Copyright (c) 2004-2007 Ralf S. Engelschall <rse@engelschall.com>
## Copyright (c) 2004-2007 The OSSP Project <http://www.ossps.org/>

```

```
##
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## of UUIDs which can found at http://www.oss.org/pkg/lib/uuid/
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##
## uuid.tm: Perl XS typemap for xsubpp(1)
##
```

TYPEMAP

```
uuid_t *    T_PTRREF
uuid_t **   T_PTRREF
uuid_rc_t   T_IV
uuid_fmt_t  T_IV
int *       T_PV
size_t *    T_PV
const void * T_PV
void **     T_PV
```

Found in path(s):

```
* /opt/cola/permits/105632424_1695285081.5201023/0/oss-p-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/perl/uuid.tm
```

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```

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##
## uuid_compat.pod: Data::UUID Backward Compatibility Perl API (Perl/POD part)
##
```

=pod

=head1 NAME

Data::UUID - B<OSSP uuid> Backward Compatibility Perl Binding

=head1 DESCRIPTION

B<Data::UUID> is the B<OSSP uuid> backward compatibility Perl binding to the API of the original B<Data::UUID> module. It allows other B<Data::UUID> based Perl modules to run with B<OSSP::uuid> without changes.

=head1 SEE ALSO

B<OSSP::uuid>.

=head1 HISTORY

The backward compatibility Perl binding B<Data::UUID> for B<OSSP uuid> was originally implemented in 2004 by Piotr Roszatycki E<lt>dexter@debian.orgE<gt>.

It was later cleaned up and speed optimized in December 2005 by David Wheeler E<lt>david@justatheory.comE<gt>.

=cut

Found in path(s):

```
* /opt/cola/permits/105632424_1695285081.5201023/0/osspp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/perl/uuid_compat.pod
```

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```
/*
```

```
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```

```
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```

```
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```

```
**
```

```
** This file is part of OSSP uuid, a library for the generation
```

```
** of UUIDs which can found at http://www.osspp.org/pkg/lib/uuid/
```

```
**
```

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```

```
**
```

```
** uuid.xs: Perl Binding (Perl/XS part)
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/105632424_1695285081.5201023/0/osspp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/perl/uuid.xs
```

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```
dnl ##
```

```
dnl ## OSSP uuid - Universally Unique Identifier
```

```
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```
dnl ##
```

```
dnl ## This file is part of OSSP uuid, a library for the generation
```

```
dnl ## of UUIDs which can found at http://www.osspp.org/pkg/lib/uuid/
```

```
dnl ##
```

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dnl ##
dnl ## uuid.ac: UUID specific Autoconf checks
dnl ##

dnl # Check for anything OSSP uuid wants to know
dnl # configure.in:
dnl #   UUID_CHECK_ALL

AC_DEFUN(UUID_CHECK_ALL,[
  dnl # make sure libnsl and libsocket are linked in if they exist
  AC_CHECK_LIB(nsl, gethostname)
  if test ".`echo $LIBS | grep nsl`" = .; then
    AC_CHECK_LIB(nsl, gethostbyname)
  fi
  AC_CHECK_LIB(socket, accept)

  dnl # check for portable va_copy()
  AC_CHECK_VA_COPY()

  dnl
  # check for system headers
  AC_CHECK_HEADERS(sys/types.h sys/param.h sys/time.h sys/socket.h sys/sockio.h sys/ioctl.h sys/select.h)
  AC_CHECK_HEADERS(netdb.h ifaddrs.h net/if.h net/if_dl.h net/if_arp.h netinet/in.h arpa/inet.h,,
  [[
  #if HAVE_SYS_TYPES_H
  #include <sys/types.h>
  #endif
  #if HAVE_SYS_SOCKET_H
  #include <sys/socket.h>
  #endif

```

```

#if HAVE_SYS_IOCTL_H
#include <sys/ioctl.h>
#endif
])

dnl # check for existence of particular C structures
AC_MSG_CHECKING(for struct timeval)
AC_TRY_COMPILE([
#ifdef HAVE_UNISTD_H
#include <unistd.h>
#endif
#ifdef HAVE_SYS_TYPES_H
#include <sys/types.h>
#endif
#ifdef HAVE_SYS_TIME_H
#include <sys/time.h>
#endif
#include <time.h>
],[ struct timeval tv; ],
[ msg="yes" ], [ msg="no" ])
if test ".$msg" = .yes; then
    AC_DEFINE(HAVE_STRUCT_TIMEVAL, 1, [define if exists "struct timeval"])
fi
AC_MSG_RESULT([$msg])

dnl # check for functions
AC_CHECK_FUNCS(getifaddrs nanosleep Sleep gettimeofday clock_gettime)

dnl # check size of built-in types
AC_CHECK_TYPES([long long, long double])
AC_CHECK_SIZEOF(char, 1)
AC_CHECK_SIZEOF(unsigned char, 1)
AC_CHECK_SIZEOF(short, 2)
AC_CHECK_SIZEOF(unsigned short, 2)
AC_CHECK_SIZEOF(int, 4)
AC_CHECK_SIZEOF(unsigned int, 4)
AC_CHECK_SIZEOF(long, 4)
AC_CHECK_SIZEOF(unsigned long, 4)
AC_CHECK_SIZEOF(long long, 8)
AC_CHECK_SIZEOF(unsigned long long, 8)

dnl # configure option --with-dce
AC_ARG_WITH([dce],
    AC_HELP_STRING([--with-dce], [build DCE 1.1 backward compatibility API]),
    [ac_cv_with_dce=$withval], [ac_cv_with_dce=no])
AC_CACHE_CHECK([whether to build DCE 1.1 backward compatibility API], [ac_cv_with_dce],
[ac_cv_with_dce=no])
if test ".$ac_cv_with_dce" = ".yes"; then

```

```

    AC_DEFINE(WITH_DCE, 1, [whether to build DCE 1.1 backward compatibility API])
    WITH_DCE='yes'
    DCE_NAME='$(DCE_NAME)'
else
    WITH_DCE='no'
    DCE_NAME=""
fi
AC_SUBST(WITH_DCE)
AC_SUBST(DCE_NAME)

dnl # configure option --with-cxx
AC_ARG_WITH([cxx],
    AS_HELP_STRING([--with-cxx], [build C++ bindings to C API]),
    [ac_cv_with_cxx=$withval], [ac_cv_with_cxx=no])
AC_CACHE_CHECK([whether to build C++ bindings to C API], [ac_cv_with_cxx], [ac_cv_with_cxx=no])
if test ".$ac_cv_with_cxx" = ".yes"; then
    AC_DEFINE(WITH_CXX, 1, [whether to build C++ bindings to C API])
    WITH_CXX='yes'
    CXX_NAME='$(CXX_NAME)'
    AC_PROG_CXX
else
    WITH_CXX='no'
    CXX_NAME=""
fi
AC_SUBST(CXX_NAME)
AC_SUBST(WITH_CXX)

dnl # configure option --with-perl
AC_ARG_WITH([perl],
    AS_HELP_STRING([--with-perl], [build Perl bindings to C API]),
    [ac_cv_with_perl=$withval], [ac_cv_with_perl=no])
AC_CACHE_CHECK([whether to build Perl bindings to C API], [ac_cv_with_perl], [ac_cv_with_perl=no])
AC_ARG_WITH([perl-compat],
    AS_HELP_STRING([--with-perl-compat],
[build Perl compatibility API]),
    [ac_cv_with_perl_compat=$withval], [ac_cv_with_perl_compat=no])
AC_CACHE_CHECK([whether to build Perl compatibility API], [ac_cv_with_perl_compat],
[ac_cv_with_perl_compat=no])
if test ".$ac_cv_with_perl" = ".yes"; then
    AC_DEFINE(WITH_PERL, 1, [whether to build Perl bindings to C API])
    WITH_PERL='yes'
    PERL_NAME='$(PERL_NAME)'
else
    WITH_PERL='no'
    PERL_NAME=""
fi
if test ".$ac_cv_with_perl_compat" = ".yes"; then
    AC_DEFINE(WITH_PERL_COMPAT, 1, [whether to build Perl compatibility API])

```

```

    WITH_PERL_COMPAT=1
else
    WITH_PERL_COMPAT=0
fi
AC_SUBST(PERL_NAME)
AC_SUBST(WITH_PERL)
AC_SUBST(WITH_PERL_COMPAT)
AC_PATH_PROG(PERL, perl, NA)
if test ".$ac_cv_with_perl" = ".yes" -a ".$PERL" = ".NA"; then
    AC_ERROR([required Perl interpreter not found in \${PATH}])
fi

dnl # configure option --with-php
AC_ARG_WITH([php],

AS_HELP_STRING([--with-php], [build PHP bindings to C API]),
    [ac_cv_with_php=$withval], [ac_cv_with_php=no])
AC_CACHE_CHECK([whether to build PHP bindings to C API], [ac_cv_with_php], [ac_cv_with_php=no])
if test ".$ac_cv_with_php" = ".yes"; then
    AC_DEFINE(WITH_PHP, 1, [whether to build PHP bindings to C API])
    WITH_PHP='yes'
    PHP_NAME='$(PHP_NAME)'
else
    WITH_PHP='no'
    PHP_NAME=""
fi
AC_SUBST(PHP_NAME)
AC_SUBST(WITH_PHP)
AC_PATH_PROGS(PHP, php5 php, NA)
if test ".$ac_cv_with_php" = ".yes" -a ".$PHP" = ".NA"; then
    AC_ERROR([required PHP interpreter not found in \${PATH}])
fi
if test ".$ac_cv_with_php" = ".yes"; then
    (cd php && make -f Makefile.local config PHP=$PHP)
fi

dnl # configure option --with-pgsql
AC_ARG_WITH([pgsql],
    AS_HELP_STRING([--with-pgsql], [build PostgreSQL bindings to C API]),
    [ac_cv_with_psql=$withval], [ac_cv_with_psql=no])
AC_CACHE_CHECK([whether
to build PostgreSQL bindings to C API], [ac_cv_with_psql], [ac_cv_with_psql=no])
if test ".$ac_cv_with_psql" = ".yes"; then
    AC_DEFINE(WITH_PGSQL, 1, [whether to build PostgreSQL bindings to C API])
    WITH_PGSQL='yes'
    PGSQL_NAME='$(PGSQL_NAME)'
else
    WITH_PGSQL='no'

```

```

PGSQL_NAME="
fi
AC_SUBST(PGSQL_NAME)
AC_SUBST(WITH_PGSQL)
AC_PATH_PROGS(PG_CONFIG, pg_config, NA)
if test ".$ac_cv_with_pgsql" = ".yes" -a ".$PG_CONFIG" = ".NA"; then
  AC_ERROR([required PostgreSQL pg_config utility not found in \$PATH])
fi
if test ".$ac_cv_with_pgsql" = ".yes" -a ".$MAKE-make" -v 2>/dev/null | grep GNU" = .; then
  AC_ERROR([PostgreSQL bindings require GNU make to build])
fi
)

```

Found in path(s):

* /opt/cola/permits/105632424_1695285081.5201023/0/oss-p-uid-1-6-2-orig-tar-gz/uid-1.6.2/uid.ac

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```

/*
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**
** This file is part of OSSP ui64, a 64-bit arithmetic library
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**
** ui64.h: API declaration
*/

```

Found in path(s):

* /opt/cola/permits/105632424_1695285081.5201023/0/ossps-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/uuid-ui64.h

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**

** uuid_cli.c: command line tool

*/

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* /opt/cola/permits/105632424_1695285081.5201023/0/ossps-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/uuid_cli.c

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dnl
dnl config.m4: PHP/Zend API build-time configuration (language: m4)
dnl
```

```
PHP_ARG_ENABLE(uuid, OSSP uuid module,
[ --enable-uuid      Enable OSSP uuid extension module.])
```

```
if test "$PHP_UUID" != "no"; then
    PHP_NEW_EXTENSION(uuid, uuid.c, $ext_shared)
    AC_DEFINE(HAVE_UUID, 1, [Have OSSP uuid library])
    PHP_ADD_LIBPATH([.], )
    PHP_ADD_LIBRARY([uuid],, UUID_SHARED_LIBADD)
    PHP_ADD_INCLUDE([.])
    PHP_SUBST(UUID_SHARED_LIBADD)
```

```
dnl avoid linking conflict with a potentially existing uuid_create(3) in libc
AC_CHECK_FUNC(uuid_create,[
    SAVE_LDFLAGS="$LDFLAGS"
    LDFLAGS="$LDFLAGS -Wl,-Bsymbolic"
    AC_TRY_LINK([],[], [EXTRA_LDFLAGS="$EXTRA_LDFLAGS -Wl,-Bsymbolic"])
    LDFLAGS="$SAVE_LDFLAGS"])
```

```
fi
```

Found in path(s):

```
* /opt/cola/permits/105632424_1695285081.5201023/0/ossps-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/php/config.m4
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```

```
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##
## This file is part of OSSP uuid, a library for the generation
```



```
## of UUIDs which can found at http://www.ossproject.org/pkg/lib/uuid/
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##
## uuid.pc.in: pkg-config(1) specification
##
```

```
prefix=@prefix@
exec_prefix=${prefix}
includedir=${prefix}/include
libdir=${exec_prefix}/lib
```

```
Name: OSSP uuid
Description: Universally Unique Identifier (UUID) Library
Version: @UUID_VERSION_RAW@
URL: http://www.ossproject.org/pkg/lib/uuid/
Cflags: -I${includedir}
Libs: -L${libdir} -luuid
Libs.private: @LIBS@
```

Found in path(s):

```
* /opt/cola/permits/105632424_1695285081.5201023/0/ossproject-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/uuid.pc.in
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```
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**
** uuid_sha1.h: SHA-1 API definition
*/
```

Found in path(s):

```
* /opt/cola/permits/105632424_1695285081.5201023/0/oss-p-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/uuid_sha1.h
```

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**
** uuid_str.h: string formatting functions
**/
```

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**
** uuid_mac.c: Media Access Control (MAC) resolver implementation
**/
```

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```
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```

```
/*
```

```
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**
** ui128.c: implementation of 128-bit unsigned integer arithmetic
**/
```

Found in path(s):

```
* /opt/cola/permits/105632424_1695285081.5201023/0/ossproject-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/uuid_ui128.c
```

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```
/*
```

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**
** uuid++.hh: library C++ API definition
*/
```

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```
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**
** uuid_time.h: Time Management API
*/
```

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**

** uuid_sha1.c: SHA-1 API implementation

*/

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**
** uuid_str.c: string formatting functions
*/
```

Found in path(s):

```
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**
** ui128.h: API declaration
*/
```

Found in path(s):

```
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```

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##
## uuid++.pod: manual page for C++ API
##
=pod
=begin NAME
B<OSSP uuid> - B<Universally Unique Identifier> (C++ API)
=begin VERSION
```


OSSP uuid UUID_VERSION_STR

=head1 DESCRIPTION

B<uuid++> is the ISO-C++ language binding of the B<OSSP uuid> C API. It provides a thin ISO-C++ class B<uuid> wrapping the ISO-C API type B<uuid_t>.

=head1 APPLICATION PROGRAMMING INTERFACE

The ISO-C++ Application Programming Interface (API) of B<OSSP uuid> consists of the following components:

=head2 CONSTANTS

The constants are the same to those provided by the ISO-C API. See uuid(3) for details.

=head2
CLASSES

The following classes are provided:

=over 4

=item B<uuid>

This is the class corresponding to the C API type B<uuid_t>. It is the main object.

=item B<uuid_error_t>

This is the class corresponding to the C API function B<uuid_error>. It is the object thrown as an exception in case of any errors.

=back

=head2 METHODS

The following methods are provided:

=over 4

=item B<uuid>();

The standard constructor.

=item B<uuid>(const uuid &_obj);

The copy constructor for B<uuid> class.

=item B<uuid>(const uuid_t *_obj);

The import constructor for C API objects.

=item B<uuid>(const void *_bin);

The import constructor for binary representation.

=item B<uuid>(const char *_str);

The import constructor for string representation.

=item ~B<uuid>();

The standard destructor for B<uuid> class.

=item uuid &B<uuid::operator=>(const uuid &_obj);

The assignment operator corresponding to the copy constructor.

=item uuid &B<uuid::operator=>(const uuid_t *_obj);

The assignment operator corresponding to the import constructor for C API objects.

=item uuid &B<uuid::operator=>(const void *_bin);

The assignment operator corresponding to the import constructor for binary representation.

=item uuid &B<uuid::operator=>(const char *_str);

The assignment operator corresponding to the import constructor for string and single integer value representation.

=item uuid B<uuid::clone>(void);

Regular method corresponding to the C API function B<uuid_clone>.

=item void B<uuid::load>(const char *_name);

Regular method corresponding to the C API function B<uuid_load>.

=item void B<uuid::make>(unsigned int _mode, ...);

Regular method corresponding to the C API function B<uuid_make>.

=item int B<uuid::isnil>(void);

Regular method corresponding to the C API function B<uuid_isnil>.

=item int B<uuid::compare>(const uuid &_obj);

Regular method corresponding to the C API function B<uuid_compare>.

=item int B<uuid::operator==>(const uuid &_obj);

The comparison operator
corresponding to B<uuid_compare> usage for equality.

=item int B<uuid::operator!=>(const uuid &_obj);

The comparison operator corresponding to B<uuid_compare> usage for inequality.

=item int B<uuid::operatorE<lt>>(const uuid &_obj);

The comparison operator corresponding to B<uuid_compare> usage for less-than.

=item int B<uuid::operatorE<lt>=>(const uuid &_obj);

The comparison operator corresponding to B<uuid_compare> usage for less-than-or-equal.

=item int B<uuid::operatorE<gt>>(const uuid &_obj);

The comparison operator corresponding to B<uuid_compare> usage for greater-than.

=item int B<uuid::operatorE<gt>=>(const uuid &_obj);

The comparison operator corresponding to B<uuid_compare> usage for greater-than-or-equal.

=item void B<uuid::import>(const void *_bin);

Regular method corresponding to the C API function B<uuid_import> for binary representation usage.

=item void B<uuid::import>(const char *_str);

Regular method corresponding to the C API function B<uuid_import>
for string representation usage.

=item void *B<uuid::binary>(void);

Regular method corresponding to the C API function B<uuid_export> for binary representation usage.

=item char *B<uuid::string>(void);

Regular method corresponding to the C API function B<uuid_export> for string representation usage.

=item char *B<uuid::integer>(void);

Regular method corresponding to the C API function B<uuid_export> for single integer value representation usage.

=item char *B<uuid::summary>(void);

Regular method corresponding to the C API function B<uuid_export> for textual summary representation usage.

=item unsigned long B<uuid::version>(void);

Regular method corresponding to the C API function B<uuid_version>.

=item B<uuid_error_t>()

The standard constructor for B<uuid_error_t> class.

=item B<uuid_error_t>(uuid_rc_t _code)

The standard constructor for B<uuid_error_t> class with return code initialization.

=item ~B<uuid_error_t>()

The standard destructor for B<uuid_error_t> class.

=item
void B<uuid_error_t::code>(uuid_rc_t _code)

Regular method for setting the return code.

=item uuid_rc_t B<uuid_error_t::code>(void)

Regular method for fetching the return code.

=item char *B<uuid_error_t::string>(void)

Regular method for fetching the string corresponding to the current return code.

=back

=head1 EXAMPLE

The following shows an example usage of the C++ API. Exception handling is omitted for code simplification and has to be re-added for production code.

```
/* generate a DCE 1.1 v1 UUID from system environment */
```

```
char *uuid_v1(void)
{
    uuid id;
    char *str;

    id.make(UUID_MAKE_V1);
    str = id.string();
    return str;
}
```

```
/* generate a DCE 1.1 v3 UUID from an URL */
```

```
char *uuid_v3(const char *url)
{
    uuid id;
    uuid id_ns;
    char *str;

    id_ns.load("ns:URL");
    id.make(UUID_MAKE_V3, &id_ns, url);
    str = id.string();
    return str;
}
```

=head1 SEE ALSO

uuid(3).

=cut

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**
** uuid.h: library API definition
*/
```

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```
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**
** uuid++.cc: library C++ API implementation
```

*/

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**

** uuid_ac.c: auto-configuration

*/

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**
** uuid_prng.h: PRNG API definition
*/
```

Found in path(s):

```
* /opt/cola/permits/105632424_1695285081.5201023/0/ossps-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/uuid_prng.h
```

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```
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** uuid.c: library API implementation

*/

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* /opt/cola/permits/105632424_1695285081.5201023/0/osspp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/uuid.c

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**

** uuid_time.c: Time Management

*/

Found in path(s):

* /opt/cola/permits/105632424_1695285081.5201023/0/osspp-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/uuid_time.c

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**
** uuid.c: PostgreSQL Binding (C part)
*/
```

Found in path(s):

```
* /opt/cola/permits/105632424_1695285081.5201023/0/oss-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/pgsql/uuid.c
```

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```
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##
## uuid.pod: manual page
##
```

=pod

=head1 NAME

B<OSSP uuid> - B<Universally Unique Identifier>

=head1 VERSION

OSSP uuid UUID_VERSION_STR

=head1 DESCRIPTION

B<OSSP uuid> is a ISO-C:1999 application programming interface (API) and corresponding command line interface (CLI) for the generation of DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant I<Universally Unique Identifier> (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood of uniqueness over space and time and are computationally difficult to guess. They are globally unique identifiers which can be locally generated without contacting a global registration authority. UUIDs are intended as unique identifiers for both mass tagging objects with an extremely short lifetime and to reliably identifying very persistent objects across a network.

This is the ISO-C application programming interface (API) of B<OSSP uuid>.

=head2 UUID Binary Representation

According to the DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 standards, a DCE 1.1 variant UUID is a 128 bit number defined out of 7 fields, each field a multiple of an octet in size and stored in network byte order:



An example of a UUID binary representation is the octet stream C<0xF8 0x1D 0x4F 0xAE 0x7D 0xEC 0x11 0xD0 0xA7 0x65 0x00 0xA0 0xC9 0x1E 0x6B 0xF6>. The binary representation format is exactly what the B<OSSP uuid> API functions B<uuid_import>() and B<uuid_export>()

deal with under
C<UUID_FMT_BIN>.

=head2 UUID ASCII String Representation

According to the DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 standards, a DCE 1.1 variant UUID is represented as an ASCII string consisting of 8 hexadecimal digits followed by a hyphen, then three groups of 4 hexadecimal digits each followed by a hyphen, then 12 hexadecimal digits. Formally, the string representation is defined by the following grammar:

```
uuid          = <time_low> "-"
               <time_mid> "-"
               <time_high_and_version> "-"
               <clock_seq_high_and_reserved>
               <clock_seq_low> "-"
               <node>
time_low      = 4*<hex_octet>
time_mid     = 2*<hex_octet>
time_high_and_version = 2*<hex_octet>
clock_seq_high_and_reserved = <hex_octet>
clock_seq_low      = <hex_octet>
node             =
6*<hex_octet>
hex_octet       = <hex_digit> <hex_digit>
hex_digit       = "0"|"1"|"2"|"3"|"4"|"5"|"6"|"7"|"8"|"9"
                 |"a"|"b"|"c"|"d"|"e"|"f"
                 |"A"|"B"|"C"|"D"|"E"|"F"
```

An example of a UUID string representation is the ASCII string "C<f81d4fae-7dec-11d0-a765-00a0c91e6bf6>". The string representation format is exactly what the B<OSSP uuid> API functions B<uuid_import>() and B<uuid_export>() deal with under C<UUID_FMT_STR>.

Notice: a corresponding URL can be generated out of a ASCII string representation of an UUID by prefixing with "C<urn:uuid:>" as in "C<urn:uuid:f81d4fae-7dec-11d0-a765-00a0c91e6bf6>".

=head2 UUID Single Integer Value Representation

According to the ISO/IEC 11578:1996 and ITU-T Rec. X.667 standards, a DCE 1.1 variant UUID can be also represented as a single integer value consisting of a decimal number with up to 39 digits.

An example of a UUID single integer value representation is the decimal number "C<329800735698586629295641978511506172918>". The string

representation format is exactly what the B<OSSP uuid> API functions B<uuid_import>() and B<uuid_export>() deal with under C<UUID_FMT_SIV>.

Notice: a corresponding ISO OID can be generated under the "{joint-iso-itu-t(2) uuid(25)}" arc out of a single integer value representation of a UUID by prefixing with "C<2.25.>". An example OID is "C<2.25.329800735698586629295641978511506172918>". Additionally, an URL can be generated by further prefixing with "C<urn:oid:>" as in "C<urn:oid:2.25.329800735698586629295641978511506172918>".

=head2 UUID Variants and Versions

A UUID has a variant and version. The variant defines the layout of the UUID. The version defines the content of the UUID. The UUID variant supported in B<OSSP uuid> is the DCE 1.1 variant only. The DCE 1.1 UUID variant versions supported in B<OSSP uuid> are:

=over 4

=item B<Version 1> (time and node based)

These are the classical UUIDs, created out of a 60-bit system time, a 14-bit local clock sequence and 48-bit system MAC address. The MAC address can be either the real one of a physical network interface card (NIC) or a random multi-cast MAC address. Version 1 UUIDs are usually used as one-time global unique identifiers.

=item B<Version 3> (name based, MD5)

These are UUIDs which are based on the 128-bit MD5 message digest of the concatenation of a 128-bit namespace UUID and a name string of arbitrary length. Version 3 UUIDs are usually used for non-unique but repeatable message digest identifiers.

=item B<Version 4> (random data based)

These are UUIDs which are based on just 128-bit of random data. Version 4 UUIDs are usually used as one-time local unique identifiers.

=item B<Version 5> (name based, SHA-1)

These are UUIDs which are based on the 160-bit SHA-1 message digest of the concatenation of a 128-bit namespace UUID and a name string of arbitrary length. Version 5 UUIDs are usually used for non-unique but repeatable message digest identifiers.

=back

=head2 UUID Uniqueness

Version 1 UUIDs are guaranteed to be unique through combinations of hardware addresses, time stamps and random seeds. There is a reference in the UUID to the hardware (MAC) address of the first network interface card (NIC) on the host which generated the UUID -- this reference is intended to ensure the UUID will be unique in space as the MAC address of every network card is assigned by a single global authority (IEEE) and is guaranteed to be unique. The next component in a UUID is a timestamp which, as clock always (should) move forward, will be unique in time. Just in case some part of the above goes wrong (the hardware address cannot be determined or the clock moved steps backward), there is a random clock sequence component placed into the UUID as a "catch-all" for uniqueness.

Version 3 and version 5 UUIDs are guaranteed to be inherently globally unique if the combination of namespace and name used to generate them is unique.

Version

4 UUIDs are not guaranteed to be globally unique, because they are generated out of locally gathered pseudo-random numbers only. Nevertheless there is still a high likelihood of uniqueness over space and time and that they are computationally difficult to guess.

=head2 Nil UUID

There is a special I<Nil> UUID consisting of all octets set to zero in the binary representation. It can be used as a special UUID value which does not conflict with real UUIDs.

=head1 APPLICATION PROGRAMMING INTERFACE

The ISO-C Application Programming Interface (API) of B<OSSP uuid> consists of the following components.

=head2 CONSTANTS

The following constants are provided:

=over 4

=item B<UUID_VERSION>

The hexadecimal encoded B<OSSP uuid> version. This allows compile-time checking of the B<OSSP uuid> version. For run-time checking use

B<uuid_version>() instead.

The hexadecimal encoding for a version "\$I<v>.\$I<r>\$I<t>\$I<l>" is calculated with the B<GNU shtool> B<version> command and is (in Perl-style

for concise description) "sprintf('0x%x%02x%d%02x', \$I<v>, \$I<r>, {qw(s 9 . 2 b 1 a 0)}->{\$I<t>}, (\$I<t> eq 's' ? 99 : \$I<l>))", i.e., the version 0.9.6 is encoded as "0x009206".

=item B<UUID_LEN_BIN>, B<UUID_LEN_STR>, B<UUID_LEN_SIV>

The number of octets of the UUID binary and string representations.

Notice that the lengths of the string representation (B<UUID_LEN_STR>)

and the lengths of the single integer value representation

(B<UUID_LEN_SIV>) does I<not> include the necessary C<NUL> termination character.

=item B<UUID_MAKE_V1>, B<UUID_MAKE_V3>, B<UUID_MAKE_V4>, B<UUID_MAKE_V5>, B<UUID_MAKE_MC>

The I<mode> bits for use with B<uuid_make>(). The B<UUID_MAKE_V>I<N> specify which UUID version to generate. The B<UUID_MAKE_MC> forces the use of a random multi-cast MAC address instead of the real physical MAC address in version 1 UUIDs.

=item B<UUID_RC_OK>, B<UUID_RC_ARG>, B<UUID_RC_MEM>, B<UUID_RC_SYS>, B<UUID_RC_INT>, B<UUID_RC_IMP>

The possible numerical return-codes of API functions.

The C<UUID_RC_OK> indicates success, the others indicate errors.

Use B<uuid_error>() to translate them into string versions.

=item B<UUID_FMT_BIN>, B<UUID_FMT_STR>, B<UUID_FMT_SIV>, B<UUID_FMT_TXT>

The I<fmt> formats for use with B<uuid_import>() and B<uuid_export>().

The B<UUID_FMT_BIN> indicates the UUID binary representation (of length B<UUID_LEN_BIN>), the B<UUID_FMT_STR> indicates the UUID string representation (of length B<UUID_LEN_STR>), the B<UUID_FMT_SIV> indicates the UUID single integer value representation (of maximum length B<UUID_LEN_SIV>) and the B<UUID_FMT_TXT> indicates the textual description (of arbitrary length) of a UUID.

=back

=head2 FUNCTIONS

The following functions are provided:

=over 4

=item uuid_rc_t B<uuid_create>(uuid_t **I<uuid>);

Create a new UUID object and store a pointer to it in C<*>I<uuid>. A UUID object consists of an internal representation of a UUID, the internal PRNG and MD5 generator contexts, and cached MAC address and timestamp information. The initial UUID is the I<Nil> UUID.

=item uuid_rc_t B<uuid_destroy>(uuid_t *I<uuid>);

Destroy UUID object I<uuid>.

=item uuid_rc_t B<uuid_clone>(const uuid_t *I<uuid>, uuid_t **I<uuid_clone>);

Clone UUID object I<uuid> and store new UUID object in I<uuid_clone>.

=item uuid_rc_t B<uuid_isnil>(const uuid_t *I<uuid>, int *I<result>);

Checks whether the UUID in I<uuid> is the I<Nil> UUID. If this is the case, it returns I<true> in C<*>I<result>. Else it returns I<false> in C<*>I<result>.

=item uuid_rc_t B<uuid_compare>(const uuid_t *I<uuid>, const uuid_t *I<uuid2>, int *I<result>);

Compares the order of the two UUIDs in I<uuid1> and I<uuid2> and returns the result in C<*>I<result>: C<-1> if I<uuid1> is smaller than I<uuid2>, C<0> if I<uuid1> is equal to I<uuid2> and C<+1> if I<uuid1> is greater than I<uuid2>.

=item uuid_rc_t B<uuid_import>(uuid_t *I<uuid>, uuid_fmt_t I<fmt>, const void *I<data_ptr>, size_t I<data_len>);

Imports a UUID I<uuid> from an external representation of format I<fmt>. The data is read from the buffer at I<data_ptr> which contains at least I<data_len> bytes.

The format of the external representation is specified by I<fmt> and the minimum expected length in I<data_len> depends on it. Valid values for I<fmt> are B<UUID_FMT_BIN>, B<UUID_FMT_STR> and B<UUID_FMT_SIV>.

=item uuid_rc_t B<uuid_export>(const uuid_t *I<uuid>, uuid_fmt_t I<fmt>, void *I<data_ptr>, size_t *I<data_len>);

Exports a UUID I<uuid> into an external representation of format

I<fmt>. Valid values for I<fmt> are B<UUID_FMT_BIN>, B<UUID_FMT_STR>, B<UUID_FMT_SIV> and B<UUID_FMT_TXT>.

The data is written to the buffer whose location is obtained by dereferencing I<data_ptr> after a "cast" to the appropriate pointer-to-pointer type. Hence the generic pointer argument I<data_ptr> is expected to be a pointer to a "pointer of a particular type", i.e., it has to be of type "C<unsigned char **>" for B<UUID_FMT_BIN> and "C<char **>" for B<UUID_FMT_STR>, B<UUID_FMT_SIV> and B<UUID_FMT_TXT>.

The buffer has to be room for at least C<*>I<data_len> bytes. If the value of the pointer after "casting" and dereferencing I<data_ptr> is C<NULL>, I<data_len> is ignored as input and a new buffer is allocated and returned in the pointer after "casting" and dereferencing I<data_ptr> (the caller has to free(3) it later on).

If I<data_len> is not C<NULL>, the number of available bytes in the buffer has to be provided in C<*>I<data_len> and the number of actually written bytes are returned in C<*>I<data_len> again. The minimum required buffer length depends on the external representation as specified by I<fmt> and is at least B<UUID_LEN_BIN> for B<UUID_FMT_BIN>, B<UUID_LEN_STR> for B<UUID_FMT_STR> and B<UUID_LEN_SIV> for B<UUID_FMT_SIV>. For B<UUID_FMT_TXT> a buffer of unspecified length is required and hence it is recommended to allow B<OSSP uuid> to allocate the buffer as necessary.

```
=item uuid_rc_t B<uuid_load>(uuid_t *I<uuid>, const char *I<name>);
```

Loads

a pre-defined UUID value into the UUID object I<uuid>. The following I<name> arguments are currently known:

```
=over 4
```

```
=item I<name>    I<UUID>
```

```
=item nil      00000000-0000-0000-0000-000000000000
```

```
=item ns:DNS   6ba7b810-9dad-11d1-80b4-00c04fd430c8
```

```
=item ns:URL   6ba7b811-9dad-11d1-80b4-00c04fd430c8
```

```
=item ns:OID   6ba7b812-9dad-11d1-80b4-00c04fd430c8
```

```
=item ns:X500  6ba7b814-9dad-11d1-80b4-00c04fd430c8
```

```
=back
```

The "C<ns:>I<XXX>" are names of pre-defined name-space UUIDs for use in the generation of DCE 1.1 version 3 and version 5 UUIDs.

```
=item uuid_rc_t B<uuid_make>(uuid_t *I<uuid>, unsigned int I<mode>, ...);
```

Generates a new UUID in I<uuid> according to I<mode> and optional arguments (dependent on I<mode>).

If I<mode> contains the C<UUID_MAKE_V1> bit, a DCE 1.1 variant UUID of version 1 is generated. Then optionally the bit C<UUID_MAKE_MC> forces the use of random multi-cast MAC address instead of the real physical MAC address (the default). The UUID is generated out of the 60-bit current system time, a 12-bit clock sequence and the 48-bit MAC address.

If I<mode> contains the C<UUID_MAKE_V3> or C<UUID_MAKE_V5> bit, a DCE 1.1 variant UUID of version 3 or 5 is generated and two additional arguments are expected: first, a namespace UUID object (C<uuid_t *>). Second, a name string of arbitrary length (C<const char *>). The UUID is generated out of the 128-bit MD5 or 160-bit SHA-1 from the concatenated octet stream of namespace UUID and name string.

If I<mode> contains the C<UUID_MAKE_V4> bit, a DCE 1.1 variant UUID of version 4 is generated. The UUID is generated out of 128-bit random data.

```
=item char *B<uuid_error>(uuid_rc_t I<rc>);
```

Returns a constant string representation corresponding to the return-code I<rc> for use in displaying B<OSSP uuid> errors.

```
=item unsigned long B<uuid_version>(void);
```

Returns the hexadecimal encoded B<OSSP uuid> version as compiled into the library object files. This allows run-time checking of the B<OSSP uuid> version.

For compile-time checking use C<UUID_VERSION> instead.

```
=back
```

```
=head1 EXAMPLE
```

The following shows an example usage of the API. Error handling is omitted for code simplification and has to be re-added for production code.

```
/* generate a DCE 1.1 v1 UUID from system environment */
```

```

char *uuid_v1(void)
{
    uuid_t *uuid;
    char *str;

    uuid_create(&uuid);
    uuid_make(uuid, UUID_MAKE_V1);
    str = NULL;
    uuid_export(uuid, UUID_FMT_STR, &str, NULL);
    uuid_destroy(uuid);
    return str;
}

/* generate a DCE 1.1 v3 UUID from an URL */
char *uuid_v3(const char *url)
{
    uuid_t *uuid;
    uuid_t *uuid_ns;
    char *str;

    uuid_create(&uuid);
    uuid_create(&uuid_ns);
    uuid_load(uuid_ns, "ns:URL");
    uuid_make(uuid, UUID_MAKE_V3, uuid_ns, url);
    str = NULL;
    uuid_export(uuid, UUID_FMT_STR, &str, NULL);
    uuid_destroy(uuid_ns);
    uuid_destroy(uuid);
    return str;
}

```

=head1 SEE ALSO

The following are references to B<UUID> documentation and specifications:

=over 4

=item

B<A Universally Unique Identifier (UUID) URN Namespace>, P. Leach, M. Mealling, R. Salz, IETF RFC-4122, July 2005, 32 pages, <http://www.ietf.org/rfc/rfc4122.txt>

=item

Information Technology -- Open Systems Interconnection (OSI),
B<Procedures for the operation of OSI Registration Authorities:
Generation and Registration of Universally Unique Identifiers (UUIDs)
and their Use as ASN.1 Object Identifier Components>,
ISO/IEC 9834-8:2004 / ITU-T Rec. X.667, 2004,
December 2004, 25 pages,
<http://www.itu.int/ITU-T/studygroups/com17/oid/X.667-E.pdf>

=item

B<DCE 1.1: Remote Procedure Call>,
appendix B<Universally Unique Identifier>,
Open Group Technical Standard
Document Number C706, August 1997, 737 pages,
(supersedes C309 DCE: Remote Procedure Call 8/1994,
which was basis for ISO/IEC 11578:1996 specification),
<http://www.opengroup.org/publications/catalog/c706.htm>

=item

Information technology -- Open Systems Interconnection (OSI),
B<Remote Procedure
Call (RPC)>,
ISO/IEC 11578:1996,
August 2001, 570 pages, (CHF 340,00),
<http://www.iso.ch/cate/d2229.html>

=item

B<HTTP Extensions for Distributed Authoring (WebDAV)>,
section B<6.4.1 Node Field Generation Without the IEEE 802 Address>,
IETF RFC-2518,
February 1999, 94 pages,
<http://www.ietf.org/rfc/rfc2518.txt>

=item

B<DCE 1.1 compliant UUID functions>,
FreeBSD manual pages uuid(3) and uuidgen(2),
<http://www.freebsd.org/cgi/man.cgi?query=uuid&manpath=FreeBSD+6.0-RELEASE>

=back

=head1 HISTORY

B<OSSP uuid> was implemented in January 2004 by Ralf S. Engelschall
E<lt>rse@engelschall.comE<gt>. It was prompted by the use of UUIDs
in the B<OSSP as> and B<OpenPKG> projects. It is a clean room

implementation intended to be strictly standards compliant and maximum portable.

=head1 SEE ALSO

uuid(1), uuid-config(1), OSSP::uuid(3).

=cut

Found in path(s):

* /opt/cola/permits/105632424_1695285081.5201023/0/oss-p-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/uuid.pod

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**

** ui64.c: implementation of 64-bit unsigned integer arithmetic

*/

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* /opt/cola/permits/105632424_1695285081.5201023/0/oss-p-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/uuid_ui64.c

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##

OSSP uuid - Universally Unique Identifier

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##

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##

uuid.pod: Perl Binding (Perl/POD part)

##

=pod

=head1 NAME

OSSP::uuid - B<OSSP uuid> Perl Binding

=head1 DESCRIPTION

B<OSSP uuid> is a ISO-C:1999 application programming interface (API)

and corresponding command line interface (CLI) for the generation of

DCE 1.1, ISO/IEC 11578:1996 and RFC 4122 compliant I<Universally Unique

Identifier> (UUID). It supports DCE 1.1 variant UUIDs of version 1 (time and node based), version 3 (name based, MD5), version 4 (random number based) and version 5 (name based, SHA-1). Additional API bindings are provided for the languages ISO-C++:1998, Perl:5 and PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1 and Perl Data::UUID APIs.

B<OSSP::uuid> is the Perl binding to the B<OSSP uuid> API. Three variants are provided:

=head2 TIE-STYLE API

The TIE-style API is a functionality-reduced wrapper around the OO-style API and intended for very high-level convenience programming:

=over 4

=item C<use OSSP::uuid;>

=item B<tie>C< my \$uuid, 'OSSP::uuid::tie', \$mode, ...;>

=item C<\$uuid = [\$mode, ...];>

=item C<print "UUID=\$uuid\n";>

=item C<untie \$uuid;>

=back

=head2 OO-STYLE API

The OO-style API is a wrapper around the C-style API and intended for high-level regular programming.

=over 4

=item C<use OSSP::uuid;>

=item C<my \$uuid = >B<new>C< OSSP::uuid;>

=item C<\$uuid-E<gt>>B<load>C<(\$name);>

=item C<\$uuid-E<gt>>B<make>C<(\$mode, ...);>

=item C<\$result = \$uuid-E<gt>>B<isnil>C<();>

=item C<\$result = \$uuid-E<gt>>B<compare>C<(\$uuid2);>

=item C<\$uuid-E<gt>>B<import>C<(\$fmt, \$data_ptr);>

=item C<\$data_ptr
= \$uuid-E<gt>>B<export>C<(\$fmt);>

=item C<[(\$str[, \$rc)] = \$uuid-E<gt>>B<error>C<();>

=item C<\$ver = \$uuid-E<gt>>B<version>C<();>

=item C<undef \$uuid;>

=back

Additionally, the strings C<"v1">, C<"v3">, C<"v4">, C<"v5"> and C<"mc"> can be used in C<\$mode> and the strings C<"bin">, C<"str">, and C<"txt"> can be used for C<\$fmt>.

=head2 C-STYLE API

The C-style API is a direct mapping of the B<OSSP uuid> ISO-C API to Perl and is intended for low-level programming. See `uuid(3)` for a description of the functions and their expected arguments.

=over 4

=item C<use OSSP::uuid qw(:all);>

=item C<my \$uuid; \$rc = >B<uuid_create>C<(\$uuid);>

=item C<\$rc = >B<uuid_load>C<(\$uuid, \$name);>

=item C<\$rc = >B<uuid_make>C<(\$uuid, \$mode, ...);>

=item C<\$rc = >B<uuid_isnil>C<(\$uuid, \$result);>

=item C<\$rc = >B<uuid_compare>C<(\$uuid, \$uuid2, \$result);>

=item C<\$rc = >B<uuid_import>C<(\$uuid, \$fmt, \$data_ptr, \$data_len);>

=item C<\$rc = >B<uuid_export>C<(\$uuid, \$fmt, \$data_ptr, \$data_len);>

=item

C<\$str = >B<uuid_error>C<(\$rc);>

=item C<\$ver = >B<uuid_version>C<();>

```
=item C<$src =>B<uuid_destroy>C<($uuid);>
```

```
=back
```

Additionally, the following constants are exported for use in C<\$src>, C<\$mode>, C<\$fmt> and C<\$ver>:

```
C<UUID_VERSION>,  
C<UUID_LEN_BIN>,  
C<UUID_LEN_STR>,  
C<UUID_RC_OK>,  
C<UUID_RC_ARG>,  
C<UUID_RC_MEM>,  
C<UUID_RC_SYS>,  
C<UUID_RC_INT>,  
C<UUID_RC_IMP>,  
C<UUID_MAKE_V1>,  
C<UUID_MAKE_V3>,  
C<UUID_MAKE_V4>,  
C<UUID_MAKE_V5>,  
C<UUID_MAKE_MC>,  
C<UUID_FMT_BIN>,  
C<UUID_FMT_STR>,  
C<UUID_FMT_SIV>,  
C<UUID_FMT_TXT>.
```

```
=head1 EXAMPLES
```

The following two examples create the version 3 UUID

C<02d9e6d5-9467-382e-8f9b-9300a64ac3cd>, both via the OO-style and the C-style API. Error handling is omitted here for easier reading, but has to be added for production-quality code.

```
# TIE-style API (very high-level)  
use OSSP::uuid;  
tie my $uuid, 'OSSP::uuid::tie';  
$uuid = [ "v1" ];  
print "UUIDs: $uuid, $uuid, $uuid\n";  
$uuid = [ "v3", "ns:URL", "http://www.ossps.org/" ];  
print "UUIDs:  
$uuid, $uuid, $uuid\n";  
untie $uuid;  
  
# OO-style API (high-level)  
use OSSP::uuid;  
my $uuid = new OSSP::uuid;  
my $uuid_ns = new OSSP::uuid;  
$uuid_ns->load("ns:URL");  
$uuid->make("v3", $uuid_ns, "http://www.ossps.org/");
```

```

undef $uuid_ns;
my $str = $uuid->export("str");
undef $uuid;
print "$str\n";

# C-style API (low-level)
use OSSP::uuid qw(:all);
my $uuid;  uuid_create($uuid);
my $uuid_ns;  uuid_create($uuid_ns);
uuid_load($uuid_ns, "ns:URL");
uuid_make($uuid, UUID_MAKE_V3, $uuid_ns, "http://www.oss.org/");
uuid_destroy($uuid_ns);
my $str;  uuid_export($uuid, UUID_FMT_STR, $str, undef);
uuid_destroy($uuid);
print "$str\n";

```

=head1 SEE ALSO

uuid(1), uuid-config(1), uuid(3).

=head1 HISTORY

The Perl binding B<OSSP::uuid> to B<OSSP uuid> was implemented in November 2004 by Ralf S. Engelschall E<lt>rse@engelschall.comE<gt>.

=cut

Found in path(s):

* /opt/cola/permits/105632424_1695285081.5201023/0/oss-p-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/perl/uuid.pod
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**  
** uuid_dce.h: DCE 1.1 compatibility API definition  
*/
```

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```
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```

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**  
** uuid_md5.c: MD5 API implementation  
*/  
/*  
* RSA Data Security, Inc., MD5 message-digest algorithm
```

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- */

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- * /opt/cola/permits/105632424_1695285081.5201023/0/ossps-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/perl/uuid.ts
- * /opt/cola/permits/105632424_1695285081.5201023/0/ossps-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/php/Makefile.local
- * /opt/cola/permits/105632424_1695285081.5201023/0/ossps-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/perl/uuid_compat.ts
- * /opt/cola/permits/105632424_1695285081.5201023/0/ossps-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/php/uuid.php5
- * /opt/cola/permits/105632424_1695285081.5201023/0/ossps-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/Makefile.PL
- * /opt/cola/permits/105632424_1695285081.5201023/0/ossps-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/uuid-config.in
- *

- /opt/cola/permits/105632424_1695285081.5201023/0/ossps-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/perl/uuid.pm
- * /opt/cola/permits/105632424_1695285081.5201023/0/ossps-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/perl/Makefile.PL
- * /opt/cola/permits/105632424_1695285081.5201023/0/ossps-uuid-1-6-2-orig-tar-gz/uuid-
- 1.6.2/perl/uuid_compat.pm
- * /opt/cola/permits/105632424_1695285081.5201023/0/ossps-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/php/uuid.ts
- * /opt/cola/permits/105632424_1695285081.5201023/0/ossps-uuid-1-6-2-orig-tar-gz/uuid-1.6.2/uuid-config.pod

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**
** uuid_bm.c: bitmask API implementation
*/
```

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```
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The documentation and latest release can be found on

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**
** uuid_dce.c: DCE 1.1 compatibility API implementation
*/

```

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```

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```

1.79 pciutils 3.2.0 r0

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1.80 perl 5.14.2 r9.4

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

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1.81 popt 1.16 r1

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1.82 icu 3.6 r8

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1.83 initscripts 1.0 r144

1.84 pcre 8.21 r1

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Written by: Philip Hazel
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1.85 libusb-compat 0.1.3 r4

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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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1.87 Izo 2.06 r1

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1.88 zlib 1.2.7 r1

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1.89 mdadm 3.2.3 r2

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```
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```

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1.92 util-linux 2.21 r10

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*/

size: 8388608, sector size: 512, PT: dos, offset: 446

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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```
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```

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```
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```

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

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```
# 1: 32- 7679 ( 7648 sectors, 3 MB)
# 2: 7680- 16383 ( 8704 sectors, 4 MB)
# 5: 7936- 12799 ( 4864 sectors, 2 MB)
# 6: 12544- 16127 ( 3584 sectors, 1 MB)
BZh91AY&SYf"~@H R h% CFTC@OQ6_@
tTJmlAH1||/FOHA]BAk@
size: 4456448, sector size: 512, PT: bsd, offset: 512
```

```
#1: 7936 4864 0x7
#2: 12544 3584 0x7
```

1.93 binutils 2.23.51.20120829+4.6a+127 r5

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@c

Local Variables:

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

@c End:

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Version 2, June 1991

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

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```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
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```

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(This file is under construction.) -*- text -*-

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error

checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

1.94 python 2.7.2 r5.19

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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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Release	Derived from	Year	Owner	GPL-compatible? (1)
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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
2.2	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
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2.7	2.6	2010	PSF	yes

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1.99 diffutils 3.3

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# install - install a program, script, or datafile

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#

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scriptversion=2012-06-27.10; # UTC

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```

```
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```

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Version 3, 29 June 2007

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1.103 crontabs 1.11 6.20121102git.el7

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1.104 e2fsprogs 1.42.9 7.e17

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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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```
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```

```
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```

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```
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```

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

<signature of Ty Coon>, 1 April 1989

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

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Theodore Ts'o
23-June-2007

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That's all there is to it!

#

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

#

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

#

BSDLIB_VERSION = 1.0

BSDLIB_IMAGE = libce

BSDLIB_MYDIR = et

BSDLIB_INSTALL_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

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

BSDLIB_PIC_FLAG = -fpic

image: \$(BSD_LIB)

\$(BSD_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD_LIB) \$(LDFLAGS) \$(OBJS))

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

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

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

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

install-shlibs install:: \$(BSD_LIB)

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

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

\$(DESTDIR)\$\$(BSDLIB_INSTALL_DIR)/\$(BSD_LIB)

@-\$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::

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

clean::

```
$(RM)
```

```
-rf pic
```

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

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

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

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

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

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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

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

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

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1.105 ethtool 3.15 2.el7

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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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1.106 fipscheck 1.4.1 5.el7

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1.107 gawk 4.0.2 4.el7

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<signature of Ty Coon>, 1 April 1990
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Version 3, 29 June 2007

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

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The

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```
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```

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

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

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1.113 libestr 0.1.9 2.e17

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Appendix: How to Apply These Terms to Your New Programs

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

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

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

Copyright (C) 19yy <name of author>

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

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

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

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

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

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

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

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1.116 libnfnetlink 1.0.1 4.el7

1.116.1 Available under license :

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Version 2, June 1991

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- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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

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

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

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

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

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

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

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

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1.117 libsepol 2.1.9 3.el7

1.117.1 Available under license :

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

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

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

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

then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

However, linking a "work that uses the Library" with the Library

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

Section 6 states terms for distribution of such executables.

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

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

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

Any executables

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

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

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

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

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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.

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The

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1.119 libutempter 1.1.6 4.el7

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

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

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

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

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

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

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

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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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1.120 lua 5.1.4 14.el7

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1.121 make 3.82 21.e17

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.123 pinentry 0.8.1 14.el7

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1.124 pkg-config 0.27.1 4.e17

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1.127 python-iniparse 0.4 9.e17

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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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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

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1.128 pycurl 7.19.0 17.el7

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1.129 pyxattr 0.5.1 5.e17

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Version 2.1, February 1999

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1.130 qrencode 3.4.1 3.el7

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- * in C (faster - it is executed many times during system startup).
- *
- * Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.136 tar 1.26 29.e17

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1.138 ustr 1.0.4 16.e17

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^L

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

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

a)

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

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

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

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

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

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

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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- a) Accompany the combined library with a copy of the same work based on the Library, uncombined

with any other library

facilities. This must be distributed under the terms of the Sections above.

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

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to most

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

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

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

That's all there is to it!

1.139 vim 7.4.160 1.e17

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```
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```

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uganda.txt For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar

uganda *Uganda* *copying* *copyright* *license*

SUMMARY

iccf *ICCF*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see `|kcc|` below or visit the ICCF web site, available at these URLs:

<http://iccf-holland.org/>

<http://www.vim.org/iccf/>

<http://www.iccf.nl/>

You can also sponsor the development of Vim. Vim sponsors can vote for features. See `|sponsor|`. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see `|manual-copyright|`.

=== begin of license ===

VIM LICENSE

D) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

- 1) This license text must be included unmodified.
- 2) The modified Vim must be distributed in one of the following five ways:
 - a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to

include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation

then this license, or a later version, also applies to your changes.

The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict

others from

making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding

modified Vim, or as long

as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make

corrections.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL.

If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

==== end of license ====

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.
- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.
- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.
- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.
- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.
- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

=====
Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there

is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this

I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:

Kibaale Children's Centre
p.o.
box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See [|iccf|](#) for the URL.

USA: The methods mentioned below can be used.

Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.

For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.

Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
<http://iccf-holland.org/germany.html>

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:

Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: \$70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:

Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

1.140 yum-metadata-parser 1.1.4 10.el7

1.140.1 Available under license :

From RPM File Metadata:GPLv2

1.141 which 2.20 7.el7

1.141.1 Available under license :

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

The precise terms and conditions for copying, distribution and modification follow.

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A "covered work" means either the unmodified Program or a work based on the Program.

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An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

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

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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

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1.146 wrl-glibc-rebuild 2.15-4.6a-127 r16

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

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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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@subheading END OF TERMS AND CONDITIONS

@page

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@smallexample

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

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1.147 boost 1.58.0

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<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
<copyright>
<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
</copyright>
<copyright>
<year>2018</year> <holder>Joe Blow, John Coe</holder>
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<copyright>
<year>1977</year> <year>1985</year> <holder>Someone else</holder>
</copyright>
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</article>
```

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was

originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied

the SunOS dynamic loader

specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and

Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to

a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to

nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the

code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the

experimentation that led to the

current typed allocation facility. (His dynamic type inference code hasn't

made it into the released version of the collector, yet.)

1.148 gdbm 1.11

1.148.1 Available under license :

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1.149 gnutls 3.3.17.1

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Constant-time SSSE3 AES core implementation.

version 0.1

##

By Mike Hamburg (Stanford University), 2009

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For details see http://shiftleft.org/papers/vector_aes/ and

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1.150 libpcap 1.6.2

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1.151 acl 2.2.51 12.el7

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1.152 kmod 20 15.el7_4.2

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1.154 diffutils 3.3-4.e17

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1.156 initscripts 9.49.39 1.el7

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Version 2, June 1991

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1.157 perl 5.22.0

1.157.1 Available under license :

```
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-
build@perl.org>."
build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
MailingList: mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3
```

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

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```

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```
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```

```
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```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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```

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

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The End

```
#!/perl
```

```
=head1 NAME
```

```
copyright.t
```

```
=head1 DESCRIPTION
```

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

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

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

```
=cut
```

```
use TestInit;
```

```
use strict;
```

```
use Config;
```

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

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

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

```
}
```

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

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

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

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

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

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

```
{
```

```

my $current_year = (gmtime)[5] + 1900;
is $v_year, $current_year, 'perl -v copyright includes
current year';
is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

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

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

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

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

$year;
}

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

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

$year;
}

```

1.158 zip 3.0 r2.0

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RECORD

Carriage_Control carriage_return
Format stream_if

1.159 mdadm 3.3.4 r0.0

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1.163 tcf-agent 1.3.0 r0.0

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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">

<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Distribution License - Version 1.0</title>
<style type="text/css">
body {
size: 8.5in 11.0in;
margin: 0.25in 0.5in 0.25in 0.5in;
```

```
    tab-interval: 0.5in;
  }
p {
  margin-left: auto;
  margin-top: 0.5em;
  margin-bottom: 0.5em;
}
p.list {
  margin-left: 0.5in;
  margin-top: 0.05em;
  margin-bottom: 0.05em;
}
</style>
```

```
</head>
```

```
<body lang="EN-US">
```

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</p>
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</body>

</html>

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1.164 tcl 8.6.4 r0.0

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1.165 tcpdump 4.7.4 r0.0

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1.166 time 1.7 r2.0

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1.167 tiny-login 1.4 r9.0

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TinyLogin is a curious blend of code from a whole bunch of folks.

It was originally cobbled together by Sean Bastille <hightide@ginch.org>

based in part on the May of 1998 version of the shadow utilities, which

can be downloaded from: <ftp://ftp.ists.pwr.wroc.pl/pub/linux/shadow/>

The build system, and the way in which TinyLogin invokes its component applications has been totally rewritten, based on the build system used for BusyBox. The code has also been majorly reworked to make it more internally consistent, to make it use fewer global variables, etc, by Erik Andersen.

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The of the start-stop-daemon

- * A rewrite of the original Debian's start-stop-daemon Perl script
- * in C (faster - it is executed many times during system startup).
- *
- * Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.170 unzip 6.0 r5.0

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

1.171 sysklogd 1.5.1 r0.0

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

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

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

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

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

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

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

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

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

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

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

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sysfsutils/lib/LGPL

1.173 sed 4.2.2 r0.0

1.173.1 Available under license :

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Version 3, 29 June 2007

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

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1. Source Code.

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

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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1.177 pam 1.2.1 r5.0

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1.178 pciutils 3.3.1 r0.0

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1.181 yum-utils 1.1.31 r0.0

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1.182 yum-metadata-parser 1.1.4 r2.0

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1.183 xinetd 2.3.15 r2.0

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1.184 wget 1.16.3 r0.0

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the Free Software Foundation, either version 3 of the License, or  
(at your option) any later version.
```

```
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```

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

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

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

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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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1.185 vim 7.4.769 r0.0

1.185.1 Available under license :

```
" Vim syntax file
" Language: Software Distributor product specification file
" (POSIX 1387.2-1995).
" Maintainer: Rex Barzee <rex_barzee@hp.com>
" Last change: 25 Apr 2001

if version < 600
" Remove any old syntax stuff hanging around
syn clear
elseif exists("b:current_syntax")
finish
endif

" Product specification files are case sensitive
syn case match

syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor

syn match psfUnquotString +[^\# ]+ contained
syn region psfQuotString start="+ " skip="+\\" end="+ " contained
```

```

syn match psfObjTag  "\<[-_+A-Z0-9a-z]\+(\.[-_+A-Z0-9a-z]\+)*" contained
syn match psfAttAbbrev ",\<(fa|fr|[aclqrv])\(<|>|<=>|>=>|==)\(^,|)+" contained
syn match psfObjTags  "\<[-_+A-Z0-9a-z]\+(\.[-_+A-Z0-9a-z]\+)*\(<s\+<[-_+A-Z0-9a-z]\+(\.[-_+A-Z0-9a-z]\+)*\)*" contained

```

```

syn match psfNumber  "\<d\+>"
contained

```

```

syn match psfFloat  "\<d\+>(\.d\+>)*" contained

```

```

syn match psfLongDate  "\<d\d\d\d\d\d\d\d\d\d\d\d\d>" contained

```

```

syn keyword psfState  available configured corrupt installed transient contained

```

```

syn keyword psfPState  applied committed superseded contained

```

```

syn keyword psfBoolean  false true contained

```

```

"Some of the attributes covered by attUnquotString and attQuotString:

```

```

" architecture category_tag control_directory copyright

```

```

" create_date description directory file_permissions install_source

```

```

" install_type location machine_type mod_date number os_name os_release

```

```

" os_version pose_as_os_name pose_as_os_release readme revision

```

```

" share_link title vendor_tag

```

```

syn region psfAttUnquotString matchgroup=psfAttrib start=~^\s*[^# ]\+\s\+[^#" ]~rs=e-1

```

```

contains=psfUnquotString,psfComment end=~$~ keepend oneline

```

```

syn region psfAttQuotString matchgroup=psfAttrib start=~^\s*[^# ]\+\s\+"~rs=e-1

```

```

contains=psfQuotString,psfComment skip=~\|~ matchgroup=psfQuotString

```

```

end=~"~ keepend

```

```

" These regions are defined in attempt to do syntax checking for some

```

```

" of the attributes.

```

```

syn region psfAttTag matchgroup=psfAttrib start="^\s*tag\s\+" contains=psfObjTag,psfComment end="$" keepend
oneline

```

```

syn region psfAttSpec matchgroup=psfAttrib

```

```

start="^\s*(ancestor|applied_patches|applied_to|contents|corequisites|exquisites|prerequisites|software_spec|
supersedes|superseded_by)\s\+" contains=psfObjTag,psfAttAbbrev,psfComment end="$" keepend

```

```

syn region psfAttTags matchgroup=psfAttrib start="^\s*all_filesets\s\+" contains=psfObjTags,psfComment end="$"
keepend

```

```

syn region psfAttNumber matchgroup=psfAttrib

```

```

start="^\s*(compressed_size|instance_id|media_sequence_number|sequence_number|size)\s\+"

```

```

contains=psfNumber,psfComment end="$" keepend oneline

```

```
syn region psfAttTime matchgroup=psfAttrib start="^\s*|(create_time|ctime|mod_time|mtime|timestamp))\s+"
contains=psfNumber,psfComment end="$" keepend oneline
```

```
syn region psfAttFloat matchgroup=psfAttrib
start="^\s*|(data_model_revision|layout_version))\s+" contains=psfFloat,psfComment end="$" keepend oneline
```

```
syn region psfAttLongDate matchgroup=psfAttrib start="^\s*install_date\s+" contains=psfLongDate,psfComment
end="$" keepend oneline
```

```
syn region psfAttState matchgroup=psfAttrib start="^\s*(state)\s+" contains=psfState,psfComment end="$"
keepend oneline
```

```
syn region psfAttPState matchgroup=psfAttrib start="^\s*(patch_state)\s+" contains=psfPState,psfComment
end="$" keepend oneline
```

```
syn region psfAttBoolean matchgroup=psfAttrib
start="^\s*(is_kernel|is_locatable|is_patch|is_protected|is_reboot|is_reference|is_secure|is_sparse))\s+"
contains=psfBoolean,psfComment end="$" keepend oneline
```

```
syn match psfComment "#.*$"
```

```
" Define the default highlighting.
```

```
" For version 5.7 and earlier: only when not done already
```

```
" For version 5.8 and later: only when an item doesn't have highlighting yet
```

```
if version >= 508 || !exists("did_psf_syntax_inits")
```

```
if version < 508
```

```
let did_psf_syntax_inits = 1
```

```
command -nargs=+ HiLink hi link <args>
```

```
else
```

```
command -nargs=+ HiLink hi def link <args>
```

```
endif
```

```
HiLink psfObject Statement
```

```
HiLink psfAttrib Type
```

```
HiLink psfQuotString String
```

```
HiLink psfObjTag Identifier
```

```
HiLink psfAttAbbrev PreProc
```

```
HiLink psfObjTags Identifier
```

```
HiLink psfComment Comment
```

```
delcommand HiLink
```

```
endif
```

```
" Long descriptions and copyrights confuse the syntax highlighting, so
```

```
" force vim to backup at least 100 lines before the top visible line
```

```
" looking for a sync location.
```

syn sync lines=100

let b:current_syntax = "psf"

uganda.txt For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar

uganda *Uganda* *copying* *copyright* *license*

SUMMARY

iccf *ICCF*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see [|kcc|](#) below or visit the ICCF web site, available at these URLs:

<http://iccf-holland.org/>

<http://www.vim.org/iccf/>

<http://www.iccf.nl/>

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [|sponsor|](#). The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see [|manual-copyright|](#).

=== begin of license ===

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- 1) This license text must be included unmodified.
- 2) The modified Vim must be distributed in one of the following five ways:
 - a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to

include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation

then this license, or a later version, also applies to your changes.

The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict

others from

making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

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- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding

modified Vim, or as long

as possible.

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4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make

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III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL.

If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

==== end of license ====

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.
- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.
- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.
- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.
- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.
- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

=====
Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there

is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this

I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:

Kibaale Children's Centre
p.o.
box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See [|iccf|](#) for the URL.

USA: The methods mentioned below can be used.

Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.

For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.

Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
<http://iccf-holland.org/germany.html>

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:

Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: \$70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:

Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

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Arnaud LE HORS BULL Research FRANCE -- Koala Project

(XPM - X PixMap format version 2 & 3)

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Voice phone: (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

1.186 sg3-utils 1.41 r0.0

1.186.1 Available under license :

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Douglas Gilbert

10th April 2012

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This package was debianized by Eric Schwartz <emschwar@debian.org> on

Wed, 14 Nov 2001 17:05:56 -0700.

It was downloaded from <URL:http://sg.danny.cz/sg/>

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/usr/share/common-licenses/BSD.

1.187 setserial 2.17 r3.0

1.187.1 Available under license :

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Version 2, June 1991

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1.189 python-contextlib2 0.4.0 r0.0

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2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.3	3.2			
2012	PSF	yes		

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1.190 python-iniparse 0.3.2 r0.0

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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
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1.191 python-nsender 0.2 r0.1

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1.193 python-pip 7.1.0 r0.0

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1.194 pycurl 7.19.5.1 r0.0

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1.195 python-setuptools 18.2 r0.0

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=====
CHANGES
=====

18.2

* Issue #412: More efficient directory search in ``find_packages``.

18.1

* Upgrade to vendored packaging 15.3.

18.0.1

* Issue #401: Fix failure in test suite.

18.0

* Dropped support for builds with Pyrex. Only Cython is supported.

* Issue #288: Detect Cython later in the build process, after
``setup_requires`` dependencies are resolved.

Projects backed by Cython can now be readily built
with a ``setup_requires`` dependency. For example::

```
ext = setuptools.Extension('mylib', ['src/CythonStuff.pyx', 'src/CStuff.c'])
setuptools.setup(
    ...
    ext_modules=[ext],
    setup_requires=['cython'],
)
```

For compatibility with older versions of setuptools, packagers should
still include ``src/CythonMod.c`` in the source distributions or
require that Cython be present before building source distributions.

However,

for systems with this build of setuptools, Cython will be
downloaded on demand.

* Issue #396: Fixed test failure on OS X.

* Pull Request #136: Remove excessive quoting from shebang headers
for Jython.

17.1.1

* Backed out unintended changes to pkg_resources, restoring removal of
deprecated imp module (ref

<<https://bitbucket.org/pypa/setuptools/commits/f572ec9563d647fa8d4ffc534f2af8070ea07a8b#comment-1881283>>`_).

17.1

* Issue #380: Add support for range operators on environment marker evaluation.

17.0

* Issue #378: Do not use internal `importlib._bootstrap` module.
* Issue #390: Disallow console scripts with path separators in the name. Removes unintended functionality and brings behavior into parity with pip.

16.0

* Pull Request #130: Better error messages for errors in parsed requirements.
* Pull Request #133: Removed ```setuptools.tests``` from the installed packages.

15.2

* Issue #373: Provisionally expose ```pkg_resources._initialize_master_working_set```, allowing for imperative re-initialization of the master working set.

15.1

* Updated to Packaging 15.1 to address Packaging #28.
* Fix ```setuptools.sandbox._execfile()``` with Python 3.1.

15.0

* Pull Request #126: `DistributionNotFound` message now lists the package or packages that required it. E.g.::

pkg_resources.DistributionNotFound: The 'colorama>=0.3.1' distribution was not found and is required by smlib.log.

Note that zc.buildout once depended on the string rendering of this message to determine the package that was not found. This expectation has since been changed, but older versions of buildout may experience problems. See Buildout #242 for details.

14.3.1

-
- * Issue #307: Removed PEP-440 warning during parsing of versions in ``pkg_resources.Distribution``.
 - * Issue #364: Replace deprecated usage with recommended usage of ``EntryPoint.load``.

14.3

-
- * Issue #254: When creating temporary egg cache on Unix, use mode 755 for creating the directory to avoid the subsequent warning if the directory is group writable.

14.2

-
- * Issue #137: Update ``Distribution.hashcmp`` so that Distributions with None for pyversion or platform can be compared against Distributions defining those attributes.

14.1.1

-
- * Issue #360: Removed undesirable behavior from test runs, preventing write tests and installation to system site packages.

14.1

-
- * Pull Request #125: Add ``__ne__`` to Requirement class.
 - * Various refactoring of easy_install.

14.0

* Bootstrap script now accepts ``--to-dir`` to customize save directory or allow for re-use of existing repository of setuptools versions. See Pull Request #112 for background.

* Issue #285: ``easy_install`` no longer will default to installing packages to the "user site packages" directory if it is itself installed there. Instead, the user must pass ``--user`` in all cases to install packages to the user site packages.

This behavior now matches that of "pip install". To configure an environment to always install to the user site packages, consider using the "install-dir" and "scripts-dir" parameters to easy_install through an appropriate distutils config file.

13.0.2

* Issue #359: Include pytest.ini in the sdist so invocation of py.test on the sdist honors the pytest configuration.

13.0.1

Re-release of 13.0. Intermittent connectivity issues caused the release process to fail and PyPI uploads no longer accept files for 13.0.

13.0

* Issue #356: Back out Pull Request #119 as it requires Setuptools 10 or later as the source during an upgrade.

* Removed build_py class from setup.py. According to 892f439d216e, this functionality was added to support upgrades from old Distribute versions, 0.6.5 and 0.6.6.

12.4

* Pull Request #119: Restore writing of ``setup_requires`` to metadata (previously added in 8.4 and removed in 9.0).

12.3

- * Documentation is now linked using the rst.linker package.
- * Fix ``setuptools.command.easy_install.extract_wininst_cfg()`` with Python 2.6 and 2.7.
- * Issue #354. Added documentation on building setuptools documentation.

12.2

- * Issue #345: Unload all modules under pkg_resources during ``ez_setup.use_setuptools()``.
- * Issue #336: Removed deprecation from ``ez_setup.use_setuptools``, as it is clearly still used by buildout's bootstrap. ``ez_setup`` remains deprecated for use by individual packages.
- * Simplified implementation of ``ez_setup.use_setuptools``.

12.1

- * Pull Request #118: Soften warning for non-normalized versions in Distribution.

12.0.5

- * Issue #339: Correct Attribute reference in ``cant_write_to_target``.
- * Issue #336: Deprecated ``ez_setup.use_setuptools``.

12.0.4

- * Issue #335: Fix script header generation on Windows.

12.0.3

*

Fixed incorrect class attribute in ``install_scripts``. Tests would be nice.

12.0.2

* Issue #331: Fixed ``install_scripts`` command on Windows systems corrupting the header.

12.0.1

* Restore ``setuptools.command.easy_install.sys_executable`` for pbr compatibility. For the future, tools should construct a CommandSpec explicitly.

12.0

* Issue #188: Setuptools now support multiple entities in the value for ``build.executable``, such that an executable of `"/usr/bin/env my-python"` may be specified. This means that systems with a specified executable whose name has spaces in the path must be updated to escape or quote that value.
* Deprecated ``easy_install.ScriptWriter.get_writer``, replaced by ``.best()`` with slightly different semantics (no `force_windows` flag).

11.3.1

* Issue #327: Formalize and restore support for any printable character in an entry point name.

11.3

* Expose ``EntryPoint.resolve`` in place of `EntryPoint._load`, implementing the simple, non-requiring load. Deprecated all uses of ``EntryPoint._load`` except for calling with no parameters, which is just a shortcut for `ep.require(); ep.resolve();`.

Apps currently invoking `ep.load(require=False)` should instead do the following if wanting to avoid the deprecating warning::

```
getattr(ep, "resolve", lambda: ep.load(require=False))()
```

11.2

* Pip #2326: Report deprecation warning at stacklevel 2 for easier diagnosis.

11.1

* Issue #281: Since Setuptools 6.1 (Issue #268), a ValueError would be raised in certain cases where VersionConflict was raised with two arguments, which occurred in `pkg_resources.WorkingSet.find``. This release adds support for indicating the dependent packages while maintaining support for a VersionConflict when no dependent package context is known. New unit tests now capture the expected interface.

11.0

* Interop #3: Upgrade to Packaging 15.0; updates to PEP 440 so that >1.7 does not exclude 1.7.1 but does exclude 1.7.0 and 1.7.0.post1.

10.2.1

* Issue #323: Fix regression in entry point name parsing.

10.2

* Deprecated use of `EntryPoint.load(require=False)`. Passing a boolean to a function to select behavior is an anti-pattern. Instead use `EntryPoint._load``.

* Substantial refactoring of all unit tests. Tests are now much leaner and re-use a lot of fixtures and contexts for better clarity of purpose.

10.1

* Issue #320: Added a compatibility implementation of

``sdist._default_revctrl``

so that systems relying on that interface do not fail (namely, Ubuntu 12.04 and similar Debian releases).

10.0.1

* Issue #319: Fixed issue installing pure distutils packages.

10.0

* Issue #313: Removed built-in support for subversion. Projects wishing to retain support for subversion will need to use a third party library. The extant implementation

is being ported to `setuptools_svn`

<https://pypi.python.org/pypi/setuptools_svn>`_.

* Issue #315: Updated setuptools to hide its own loaded modules during installation of another package. This change will enable setuptools to upgrade (or downgrade) itself even when its own metadata and implementation change.

9.1

* Prefer vendored packaging library as recommended

<<https://github.com/jaraco/setuptools/commit/170657b68f4b92e7e1bf82f5e19a831f5744af67#commitcomment-9109448>>`_.

9.0.1

* Issue #312: Restored presence of `pkg_resources` API tests (doctest) to sdist.

9.0

* Issue #314: Disabled support for `setup_requires` metadata to avoid issue where Setuptools was unable to upgrade over earlier versions.

8.4

* Pull Request #106: Now write ``setup_requires`` metadata.

8.3

* Issue #311: Decoupled pkg_resources from setuptools once again.
``pkg_resources`` is now a package instead of a module.

8.2.1

*
Issue #306: Suppress warnings about Version format except in select scenarios
(such as installation).

8.2

* Pull Request #85: Search egg-base when adding egg-info to manifest.

8.1

* Upgrade ``packaging`` to 14.5, giving preference to "rc" as designator for
release candidates over "c".
* PEP-440 warnings are now raised as their own class,
``pkg_resources.PEP440Warning``, instead of RuntimeWarning.
* Disabled warnings on empty versions.

8.0.4

* Upgrade ``packaging`` to 14.4, fixing an error where there is a
different result for if 2.0.5 is contained within >2.0dev and >2.0.dev even
though normalization rules should have made them equal.
* Issue #296: Add warning when a version is parsed as legacy. This warning will
make it easier for developers to recognize deprecated version numbers.

8.0.3

* Issue #296: Restored support for `__hash__` on `parse_version` results.

8.0.2

* Issue #296: Restored support for `__getitem__` and sort operations on `parse_version` result.

8.0.1

* Issue #296: Restore support for iteration over `parse_version` result, but deprecated that usage with a warning. Fixes failure with buildout.

8.0

* Implement PEP 440 <<http://legacy.python.org/dev/peps/pep-0440/>> within `pkg_resources` and `setuptools`. This change deprecates some version numbers such that they will no longer be installable without using the `===` escape hatch. See the changes to `test_resources` <https://bitbucket.org/pypa/setuptools/commits/dcd552da643c4448056de84c73d56da6d70769d5#chg-setuptools/tests/test_resources.py> for specific examples of version numbers and specifiers that are no longer supported. `Setuptools` now "vendors" the `packaging` <<https://github.com/pypa/packaging>> library.

7.0

* Issue #80, Issue #209: Eggs that are downloaded for `setup_requires`, `test_requires`, etc. are now placed in a `./eggs` directory instead of directly in the current directory. This choice of location means the files can be readily managed (removed, ignored). Additionally, later phases or invocations of `setuptools` will not detect the package as already installed and ignore it for permanent install (See #209).

This change is indicated as backward-incompatible as installations that depend on the installation in the current directory will need to account for the new location. Systems that ignore `*.egg` will probably need to be adapted to ignore `./eggs`. The files will need to be manually moved or will be retrieved again. Most use cases will require no attention.

6.1

* Issue #268: When resolving package versions, a VersionConflict now reports which package previously required the conflicting version.

6.0.2

* Issue #262: Fixed regression in pip install due to egg-info directories being omitted. Re-opens Issue #118.

6.0.1

* Issue #259: Fixed regression with namespace package handling on ``single version, externally managed`` installs.

6.0

* Issue #100: When building a distribution, Setuptools will no longer match default files using platform-dependent case sensitivity, but rather will only match the files if their case matches exactly. As a result, on Windows and other case-insensitive file systems, files with names such as 'readme.txt' or 'README.TXT' will be omitted from the distribution and a warning will be issued indicating that 'README.txt' was not found. Other filenames affected are:

- README.rst
- README
- setup.cfg
- setup.py (or the script name)
- test/test*.py

Any users producing distributions with filenames that match those above case-insensitively, but not case-sensitively, should rename those files in their repository for better portability.

* Pull Request #72: When using ``single_version_externally_managed``, the exclusion list now includes Python 3.2 ``__pycache__`` entries.

* Pull Request #76

and Pull Request #78: lines in top_level.txt are now ordered deterministically.

* Issue #118: The egg-info directory is now no longer included in the list of outputs.

* Issue #258: Setuptools now patches distutils msvc9compiler to recognize the specially-packaged compiler package for easy extension module support on Python 2.6, 2.7, and 3.2.

5.8

* Issue #237: ``pkg_resources`` now uses explicit detection of Python 2 vs. Python 3, supporting environments where builtins have been patched to make Python 3 look more like Python 2.

5.7

* Issue #240: Based on real-world performance measures against 5.4, zip manifests are now cached in all circumstances. The ``PKG_RESOURCES_CACHE_ZIP_MANIFESTS`` environment variable is no longer relevant. The observed "memory increase" referenced in the 5.4 release notes and detailed in Issue #154 was likely not an increase over the status quo, but rather only an increase over not storing the zip info at all.

5.6

*
Issue #242: Use absolute imports in svn_utils to avoid issues if the installing package adds an xml module to the path.

5.5.1

* Issue #239: Fix typo in 5.5 such that fix did not take.

5.5

* Issue #239: Setuptools now includes the setup_requires directive on Distribution objects and validates the syntax just like install_requires and tests_require directives.

5.4.2

* Issue #236: Corrected regression in execfile implementation for Python 2.6.

5.4.1

* Python #7776: (ssl_support) Correct usage of host for validation when tunneling for HTTPS.

5.4

* Issue #154: ``pkg_resources`` will now cache the zip manifests rather than re-processing the same file from disk multiple times, but only if the environment variable ``PKG_RESOURCES_CACHE_ZIP_MANIFESTS`` is set. Clients that package many modules in the same zip file will see some improvement in startup time by enabling this feature. This feature is not enabled by default because it causes a substantial increase in memory usage.

5.3

* Issue #185: Make svn tagging work on the new style SVN metadata.

Thanks cazabon!

* Prune revision control directories (e.g .svn) from base path as well as sub-directories.

5.2

* Added a `Developer Guide

<<https://pythonhosted.org/setuptools/developer-guide.html>>`_ to the official documentation.

* Some code refactoring and cleanup was done with no intended behavioral changes.

* During install_egg_info, the generated lines for namespace package .pth files are now processed even during a dry run.

5.1

* Issue #202: Implemented more robust cache invalidation for the ZipImporter, building on the work in Issue #168. Special thanks to Jurko Gospodnetic and PJE.

5.0.2

* Issue #220: Restored script templates.

5.0.1

* Renamed script templates to end with .tmpl now that they no longer need to be processed by 2to3. Fixes spurious syntax errors during build/install.

5.0

* Issue #218: Re-release of 3.8.1 to signal that it supersedes 4.x.
* Incidentally, script templates were updated not to include the triple-quote escaping.

3.7.1 and 3.8.1 and 4.0.1

* Issue #213: Use legacy StringIO behavior for compatibility under pbr.
* Issue #218: Setuptools 3.8.1 superseded 4.0.1, and 4.x was removed from the available versions to install.

4.0

* Issue #210: ``setup.py develop`` now copies scripts in binary mode rather than text mode, matching the behavior of the ``install`` command.

3.8

* Extend Issue #197 workaround to include all Python 3 versions prior to 3.2.2.

3.7

* Issue #193: Improved handling of Unicode filenames when building manifests.

3.6

* Issue #203: Honor proxy settings for Powershell downloader in the bootstrap routine.

3.5.2

* Issue #168: More robust handling of replaced zip files and stale caches.
Fixes
ZipImportError complaining about a 'bad local header'.

3.5.1

* Issue #199: Restored ``install._install`` for compatibility with earlier NumPy versions.

3.5

* Issue #195: Follow symbolic links in find_packages (restoring behavior broken in 3.4).

* Issue #197: On Python 3.1, PKG-INFO is now saved in a UTF-8 encoding instead of ``sys.getpreferredencoding`` to match the behavior on Python 2.6-3.4.

* Issue #192: Preferred bootstrap location is now https://bootstrap.pypa.io/ez_setup.py (mirrored from former location).

3.4.4

* Issue #184: Correct failure where find_package over-matched packages when directory traversal isn't short-circuited.

3.4.3

* Issue #183: Really fix test command with Python 3.1.

3.4.2

* Issue #183: Fix additional regression in test command on Python 3.1.

3.4.1

* Issue #180: Fix regression in test command not caught by py.test-run tests.

3.4

* Issue #176: Add parameter
to the test command to support a custom test
runner: --test-runner or -r.

* Issue #177: Now assume most common invocation to install command on
platforms/environments without stack support (issuing a warning). Setuptools
now installs naturally on IronPython. Behavior on CPython should be
unchanged.

3.3

* Add ``include`` parameter to ``setuptools.find_packages()``.

3.2

* Pull Request #39: Add support for C++ targets from Cython ``.pyx`` files.

* Issue #162: Update dependency on certifi to 1.0.1.

* Issue #164: Update dependency on wincertstore to 0.2.

3.1

* Issue #161: Restore Features functionality to allow backward compatibility (for Features) until the uses of that functionality is sufficiently removed.

3.0.2

* Correct typo in previous bugfix.

3.0.1

* Issue #157: Restore support for Python 2.6 in bootstrap script where `zipfile.ZipFile` does not yet have support for context managers.

3.0

* Issue #125:

Prevent Subversion support from creating a `~/.subversion` directory just for checking the presence of a Subversion repository.

* Issue #12: Namespace packages are now imported lazily. That is, the mere declaration of a namespace package in an egg on `sys.path` no longer causes it to be imported when `pkg_resources` is imported. Note that this change means that all of a namespace package's `__init__.py` files must include a `declare_namespace()` call in order to ensure that they will be handled properly at runtime. In 2.x it was possible to get away without including the declaration, but only at the cost of forcing namespace packages to be imported early, which 3.0 no longer does.

* Issue #148: When building (bdist_egg), setuptools no longer adds `__init__.py` files to namespace packages. Any packages that rely on this behavior will need to create `__init__.py` files and include the `declare_namespace()`.

* Issue #7: Setuptools itself is now distributed as a zip archive in addition to tar archive. `ez_setup.py` now uses zip archive. This approach avoids the potential security vulnerabilities presented by use of tar archives in `ez_setup.py`. It also leverages the security features added to `ZipFile.extract` in Python 2.7.4.

* Issue #65: Removed deprecated Features functionality.

* Pull Request #28: Remove backport of `_bytecode_filenames` which is available in Python 2.6 and later, but also has better compatibility with Python 3 environments.

* Issue #156: Fix spelling of `__PYVENV_LAUNCHER__` variable.

2.2

- * Issue #141: Restored fix for allowing setup_requires dependencies to override installed dependencies during setup.
- * Issue #128: Fixed issue where only the first dependency link was honored in a distribution where multiple dependency links were supplied.

2.1.2

- * Issue #144: Read long_description using codecs module to avoid errors installing on systems where LANG=C.

2.1.1

- * Issue #139: Fix regression in re_finder for CVS repos (and maybe Git repos as well).

2.1

- * Issue #129: Suppress inspection of ``*.whl`` files when searching for files in a zip-imported file.
- * Issue #131: Fix RuntimeError when constructing an egg fetcher.

2.0.2

- * Fix NameError during installation with Python implementations (e.g. Jython) not containing parser module.
- * Fix NameError in ``sdist:re_finder``.

2.0.1

- * Issue #124: Fixed error in list detection in upload_docs.

2.0

- * Issue #121: Exempt lib2to3 pickled grammars from DirectorySandbox.
- * Issue #41: Dropped support for Python 2.4 and Python 2.5. Clients requiring setuptools for those versions of Python should use setuptools 1.x.
- * Removed `setuptools.command.easy_install.HAS_USER_SITE`. Clients expecting this boolean variable should use `site.ENABLE_USER_SITE` instead.
- * Removed `pkg_resources.ImpWrapper`. Clients that expected this class should use `pkgutil.ImpImporter` instead.

1.4.2

- * Issue #116: Correct TypeError when reading a local package index on Python 3.

1.4.1

- * Issue #114: Use `sys.getfilesystemencoding` for decoding config in `bdist_wininst` distributions.

- * Issue #105 and Issue #113: Establish a more robust technique for determining the terminal encoding::

1. Try `getpreferredencoding`
2. If that returns `US_ASCII` or `None`, try the encoding from `getdefaultlocale`. If that encoding was a "fallback" because Python could not figure it out from the environment or OS, encoding remains unresolved.
3. If the encoding is resolved, then make sure Python actually implements the encoding.
4. On the event of an error or unknown codec, revert to fallbacks (UTF-8 on Darwin, ASCII on everything else).
5. On the encoding is 'mac-roman' on Darwin, use UTF-8 as 'mac-roman' was a bug on older Python releases.

On a side note, it would seem that the encoding only matters for when SVN does not yet support `--xml` and when getting repository and svn version numbers. The `--xml` technique should yield UTF-8 according to some messages on the SVN mailing lists. So if the version numbers are always 7-bit ASCII clean, it may be best to only support the file parsing methods for legacy SVN releases and support for SVN without the subprocess command would simple go away as support for the older SVNs does.

1.4

- * Issue #27: ``easy_install`` will now use credentials from .pypirc if present for connecting to the package index.
- * Pull Request #21: Omit unwanted newlines in ``package_index._encode_auth`` when the username/password pair length indicates wrapping.

1.3.2

- * Issue #99: Fix filename encoding issues in SVN support.

1.3.1

- * Remove exuberant warning in SVN support when SVN is not used.

1.3

- * Address security vulnerability in SSL match_hostname check as reported in Python #17997.
- * Prefer `backports.ssl_match_hostname` <https://pypi.python.org/pypi/backports.ssl_match_hostname>`_ for backport implementation if present.
- * Correct NameError in ``ssl_support`` module (``socket.error``).

1.2

- * Issue #26: Add support for SVN 1.7. Special thanks to Philip Thiem for the contribution.
- * Issue #93: Wheels are now distributed with every release. Note that as reported in Issue #108, as of Pip 1.4, scripts aren't installed properly from wheels. Therefore, if using Pip to install setuptools from a wheel, the ``easy_install`` command will not be available.
- * Setuptools "natural" launcher support, introduced in 1.0, is now officially supported.

1.1.7

- * Fixed behavior of NameError handling in 'script template (dev).py' (script launcher for 'develop' installs).
- * ``ez_setup.py`` now ensures partial downloads are cleaned up following a failed download.
- * Distribute #363 and Issue #55: Skip an sdist test that fails on locales other than UTF-8.

1.1.6

- * Distribute #349: ``sandbox.execfile`` now opens the target file in binary mode, thus honoring a BOM in the file when compiled.

1.1.5

- * Issue #69: Second attempt at fix (logic was reversed).

1.1.4

- * Issue #77: Fix error in upload command (Python 2.4).

1.1.3

- * Fix NameError in previous patch.

1.1.2

- * Issue #69: Correct issue where 404 errors are returned for URLs with fragments in them (such as #egg=).

1.1.1

- * Issue #75: Add ``--insecure`` option to ez_setup.py to accommodate

environments where a trusted SSL connection cannot be validated.

* Issue #76: Fix AttributeError in upload command with Python 2.4.

1.1

* Issue #71 (Distribute #333): EasyInstall now puts less emphasis on the condition when a host is blocked via ``--allow-hosts``.

* Issue #72: Restored Python 2.4 compatibility in ``ez_setup.py``.

1.0

* Issue #60: On Windows, Setuptools supports deferring to another launcher, such as Vinay Sajip's `pylauncher` <<https://bitbucket.org/pypa/pylauncher>> (included with Python 3.3) to launch console and GUI scripts and not install its own launcher executables. This experimental functionality is currently only enabled if the `SETUPTOOLS_LAUNCHER` environment variable is set to "natural". In the future, this behavior may become default, but only after it has matured and seen substantial adoption. The `SETUPTOOLS_LAUNCHER` also accepts "executable" to force the default behavior of creating launcher executables.

* Issue #63: Bootstrap script (`ez_setup.py`) now prefers Powershell, curl, or wget for retrieving the Setuptools tarball for improved security of the install. The script will still fall back to a simple `urlopen` on platforms that do not have these tools.

* Issue #65: Deprecated the `Features` functionality.

* Issue #52: In `VerifyingHTTPSConn`, handle a tunnelled (proxied) connection.

Backward-Incompatible

Changes

=====

This release includes a couple of backward-incompatible changes, but most if not all users will find 1.0 a drop-in replacement for 0.9.

* Issue #50: Normalized API of environment marker support. Specifically, removed line number and filename from `SyntaxErrors` when returned from `pkg_resources.invalid_marker`. Any clients depending on the specific string representation of exceptions returned by that function may need to be updated to account for this change.

* Issue #50: `SyntaxErrors` generated by `pkg_resources.invalid_marker` are normalized for cross-implementation consistency.

* Removed `--ignore-conflicts-at-my-risk` and `--delete-conflicting`

options to `easy_install`. These options have been deprecated since 0.6a11.

0.9.8

* Issue #53: Fix `NameErrors` in ``_vcs_split_rev_from_url``.

0.9.7

* Issue #49: Correct `AttributeError` on PyPy where a `hashlib.HASH` object does not have

a ``name`` attribute.

* Issue #34: Documentation now refers to bootstrap script in code repository referenced by bookmark.

* Add underscore-separated keys to environment markers (`markerlib`).

0.9.6

* Issue #44: Test failure on Python 2.4 when MD5 hash doesn't have a ``name`` attribute.

0.9.5

* Python #17980: Fix security vulnerability in SSL certificate validation.

0.9.4

* Issue #43: Fix issue (introduced in 0.9.1) with version resolution when upgrading over other releases of `Setuptools`.

0.9.3

* Issue #42: Fix new ``AttributeError`` introduced in last fix.

0.9.2

* Issue #42: Fix regression where blank checksums would trigger an
`AttributeError`.

0.9.1

* Distribute #386: Allow other positional and keyword arguments to os.open.
* Corrected dependency on certifi mis-referenced in 0.9.

0.9

* `package_index` now validates hashes other than MD5 in download links.

0.8

* Code base now
runs on Python 2.4 - Python 3.3 without Python 2to3
conversion.

0.7.8

* Distribute #375: Yet another fix for yet another regression.

0.7.7

* Distribute #375: Repair AttributeError created in last release (redo).
* Issue #30: Added test for get_cache_path.

0.7.6

* Distribute #375: Repair AttributeError created in last release.

0.7.5

- * Issue #21: Restore Python 2.4 compatibility in ``test_easy_install``.
- * Distribute #375: Merged additional warning from Distribute 0.6.46.
- * Now honor the environment variable
``SETUPTOOLS_DISABLE_VERSIONED_EASY_INSTALL_SCRIPT`` in addition to the now
deprecated ``DISTRIBUTE_DISABLE_VERSIONED_EASY_INSTALL_SCRIPT``.

0.7.4

- * Issue #20: Fix comparison of parsed SVN version on Python 3.

0.7.3

- * Issue #1: Disable installation of Windows-specific files on non-Windows systems.
- * Use new sysconfig module with Python 2.7 or >=3.2.

0.7.2

- * Issue #14: Use markerlib
when the `parser` module is not available.
- * Issue #10: ``ez_setup.py`` now uses HTTPS to download setuptools from PyPI.

0.7.1

- * Fix NameError (Issue #3) again - broken in bad merge.

0.7

- * Merged Setuptools and Distribute. See docs/merge.txt for details.

Added several features that were slated for setuptools 0.6c12:

- * Index URL now defaults to HTTPS.
- * Added experimental environment marker support. Now clients may designate a PEP-426 environment marker for "extra" dependencies. Setuptools uses this feature in ``setup.py`` for optional SSL and certificate validation support on older platforms. Based on Distutils-SIG discussions, the syntax is somewhat tentative. There should probably be a PEP with a firmer spec before the feature should be considered suitable for use.

* Added support for SSL certificate validation when installing packages from an HTTPS service.

0.7b4

* Issue #3: Fixed NameError in SSL support.

0.6.49

*
Move warning check in ``get_cache_path`` to follow the directory creation to avoid errors when the cache path does not yet exist. Fixes the error reported in Distribute #375.

0.6.48

* Correct AttributeError in ``ResourceManager.get_cache_path`` introduced in 0.6.46 (redo).

0.6.47

* Correct AttributeError in ``ResourceManager.get_cache_path`` introduced in 0.6.46.

0.6.46

* Distribute #375: Issue a warning if the PYTHON_EGG_CACHE or otherwise customized egg cache location specifies a directory that's group- or world-writable.

0.6.45

* Distribute #379: ``distribute_setup.py`` now traps VersionConflict as well, restoring ability to upgrade from an older setuptools version.

0.6.44

* ``distribute_setup.py`` has been updated to allow Setuptools 0.7 to satisfy use_setuptools.

0.6.43

* Distribute #378: Restore support for Python 2.4 Syntax (regression in 0.6.42).

0.6.42

*

External links finder no longer yields duplicate links.

* Distribute #337: Moved site.py to setuptools/site-patch.py (graft of very old patch from setuptools trunk which inspired PR #31).

0.6.41

* Distribute #27: Use public api for loading resources from zip files rather than the private method ``_zip_directory_cache``.

* Added a new function ``easy_install.get_win_launcher`` which may be used by third-party libraries such as buildout to get a suitable script launcher.

0.6.40

* Distribute #376: brought back cli.exe and gui.exe that were deleted in the previous release.

0.6.39

* Add support for console launchers on ARM platforms.

* Fix possible issue in GUI launchers where the subsystem was not supplied to the linker.

* Launcher build script now refactored for robustness.

* Distribute #375: Resources extracted from a zip egg to the file system now also check the contents of the file against the zip contents during each invocation

of `get_resource_filename`.

0.6.38

* Distribute #371: The launcher manifest file is now installed properly.

0.6.37

* Distribute #143: Launcher scripts, including `easy_install` itself, are now accompanied by a manifest on 32-bit Windows environments to avoid the Installer Detection Technology and thus undesirable UAC elevation described in `this` Microsoft article

<<http://technet.microsoft.com/en-us/library/cc709628%28WS.10%29.aspx>>`_.

0.6.36

* Pull Request #35: In Buildout #64, it was reported that under Python 3, installation of `distutils` scripts could attempt to copy the `__pycache__` directory as a file, causing an error, apparently only under Windows. `Easy_install` now skips all directories when processing metadata scripts.

0.6.35

Note this release is backward-incompatible with distribute 0.6.23-0.6.34 in how it parses version numbers.

* Distribute #278: Restored compatibility with distribute 0.6.22 and `setuptools` 0.6. Updated the documentation to match more closely with the version parsing as intended in `setuptools` 0.6.

0.6.34

* Distribute #341: 0.6.33 fails to build under Python 2.4.

0.6.33

- * Fix 2 errors with Jython 2.5.
- * Fix 1 failure with Jython 2.5 and 2.7.
- * Disable workaround for Jython scripts on Linux systems.
- * Distribute #336: `setup.py` no longer masks failure exit code when tests fail.
- * Fix issue in `pkg_resources` where `try/except` around a platform-dependent import would trigger hook load failures on Mercurial. See pull request 32 for details.
- * Distribute #341: Fix a `ResourceWarning`.

0.6.32

- * Fix test suite with Python 2.6.
- * Fix some `DeprecationWarnings` and `ResourceWarnings`.
- * Distribute #335: Backed out `setup_requires` superceding installed requirements until regression can be addressed.

0.6.31

- * Distribute #303: Make sure the manifest only ever contains UTF-8 in Python 3.
- * Distribute #329: Properly close files created by tests for compatibility with Jython.
- * Work around Jython #1980 and Jython #1981.
- * Distribute #334: Provide workaround for packages that reference `sys.__stdout__` such as `numpy` does. This change should address `virtualenv #359` <<https://github.com/pypa/virtualenv/issues/359>>`_ as long as the system encoding is UTF-8 or the IO encoding is specified in the environment, i.e.:

```
PYTHONIOENCODING=utf8 pip install numpy
```

- * Fix for encoding issue when installing from Windows executable on Python 3.
- * Distribute #323: Allow `setup_requires` requirements to supercede installed requirements. Added some new keyword arguments to existing `pkg_resources` methods. Also had to updated how `__path__` is handled for namespace packages to ensure that when a new egg distribution containing a namespace package is placed on `sys.path`, the entries in `__path__` are found in the same order they would have been in had that egg been on the path when `pkg_resources` was first imported.

0.6.30

- * Distribute #328: Clean up temporary directories in `distribute_setup.py`.
- * Fix fatal bug in `distribute_setup.py`.

0.6.29

- * Pull Request #14: Honor file permissions in zip files.
- * Distribute #327: Merged pull request #24 to fix a dependency problem with pip.
- * Merged pull request #23 to fix <https://github.com/pypa/virtualenv/issues/301>.
- * If Sphinx is installed, the `upload_docs` command now runs `build_sphinx` to produce uploadable documentation.
- * Distribute #326: `upload_docs` provided mangled auth credentials under Python 3.
- * Distribute #320: Fix check for "createable" in `distribute_setup.py`.
- * Distribute #305: Remove a warning that was triggered during normal operations.
- * Distribute #311: Print metadata in UTF-8 independent of platform.
- * Distribute #303: Read manifest file with UTF-8 encoding under Python 3.
- * Distribute #301: Allow to run tests of namespace packages when using 2to3.
- * Distribute #304: Prevent import loop in `site.py` under Python 3.3.
- * Distribute #283: Reenable scanning of `*.pyc` / `*.pyo` files on Python 3.3.
- * Distribute #299: The `develop` command didn't work on Python 3, when using 2to3, as the egg link would go to the Python 2 source. Linking to the 2to3'd code in `build/lib` makes it work, although you will have to rebuild the module before testing it.
- * Distribute #306: Even if 2to3 is used, we build in-place under Python 2.
- * Distribute #307: Prints the full path when `.svn/entries` is broken.
- * Distribute #313: Support for `sdist` subcommands (Python 2.7)
- * Distribute #314: `test_local_index()` would fail on OS X.
- * Distribute #310: Non-ascii characters in a namespace `__init__.py` causes errors.
- * Distribute #218: Improved documentation on behavior of `package_data` and `include_package_data`. Files indicated by `package_data` are now included in the manifest.
- * `distribute_setup.py` now allows a `--download-base` argument for retrieving distribute from a specified location.

0.6.28

- * Distribute #294: `setup.py` can now be invoked from any directory.
- * Scripts are now installed honoring the `umask`.
- * Added support for `.dist-info` directories.

* Distribute #283: Fix and disable scanning of `*.pyc` / `*.pyo` files on Python 3.3.

0.6.27

* Support current snapshots of CPython 3.3.
* Distribute now recognizes README.rst as a standard, default readme file.
* Exclude 'encodings' modules when removing modules from sys.modules.
Workaround for #285.
* Distribute #231: Don't fiddle with system python when used with buildout (bootstrap.py)

0.6.26

* Distribute #183: Symlinked files are now extracted from source distributions.
* Distribute #227: Easy_install fetch parameters are now passed during the installation of a source distribution; now fulfillment of setup_requires dependencies will honor the parameters passed to easy_install.

0.6.25

* Distribute #258: Workaround a cache issue
*
Distribute #260: distribute_setup.py now accepts the --user parameter for Python 2.6 and later.
* Distribute #262: package_index.open_with_auth no longer throws LookupError on Python 3.
* Distribute #269: AttributeError when an exception occurs reading Manifest.in on late releases of Python.
* Distribute #272: Prevent TypeError when namespace package names are unicode and single-install-externally-managed is used. Also fixes PIP issue 449.
* Distribute #273: Legacy script launchers now install with Python2/3 support.

0.6.24

* Distribute #249: Added options to exclude 2to3 fixers

0.6.23

- * Distribute #244: Fixed a test
- * Distribute #243: Fixed a test
- * Distribute #239: Fixed a test
- * Distribute #240: Fixed a test
- * Distribute #241: Fixed a test
- * Distribute #237: Fixed a test
- * Distribute #238: easy_install now uses 64bit executable wrappers on 64bit Python
- * Distribute #208: Fixed parsed_versions, it now honors post-releases as noted in the documentation
- *
- Distribute #207: Windows cli and gui wrappers pass CTRL-C to child python process
- * Distribute #227: easy_install now passes its arguments to setup.py bdist_egg
- * Distribute #225: Fixed a NameError on Python 2.5, 2.4

0.6.21

- * Distribute #225: Fixed a regression on py2.4

0.6.20

- * Distribute #135: Include url in warning when processing URLs in package_index.
- * Distribute #212: Fix issue where easy_install fails on Python 3 on windows installer.
- * Distribute #213: Fix typo in documentation.

0.6.19

- * Distribute #206: AttributeError: 'HTTPMessage' object has no attribute 'getheaders'

0.6.18

- * Distribute #210: Fixed a regression introduced by Distribute #204 fix.

0.6.17

- * Support 'DISTRIBUTE_DISABLE_VERSIONED_EASY_INSTALL_SCRIPT' environment variable to allow to disable installation of easy_install- $\{version\}$ script.
- * Support Python $\geq 3.1.4$ and $\geq 3.2.1$.

- * Distribute #204: Don't try to import the parent of a namespace package in `declare_namespace`
- * Distribute #196: Tolerate responses with multiple Content-Length headers
- * Distribute #205: Sandboxing doesn't preserve `working_set`. Leads to `setup_requires` problems.

0.6.16

- * Builds `sdist` `gztar` even on Windows (avoiding Distribute #193).
- * Distribute #192: Fixed metadata omitted on Windows when `package_dir` specified with forward-slash.
- * Distribute #195: Cython build support.
- * Distribute #200: Issues with recognizing 64-bit packages on Windows.

0.6.15

- * Fixed typo in `bdist_egg`
- * Several issues under Python 3 has been solved.
- * Distribute #146: Fixed missing DLL files after `easy_install` of windows exe package.

0.6.14

- * Distribute #170: Fixed `unittest` failure. Thanks to Toshio.
- * Distribute #171: Fixed race condition in `unittests` cause deadlocks in test suite.
- * Distribute #143: Fixed a lookup issue with `easy_install`.
Thanks to David and Zooko.
- * Distribute #174: Fixed the edit mode when its used with `setuptools` itself

0.6.13

- * Distribute #160: 2.7 gives `ValueError("Invalid IPv6 URL")`
- * Distribute #150: Fixed using `~/local` even in a `--no-site-packages` `virtualenv`
- * Distribute #163: scan index links before external links, and don't use the `md5` when comparing two distributions

0.6.12

* Distribute #149: Fixed various failures on 2.3/2.4

0.6.11

* Found another case of SandboxViolation - fixed

* Distribute #15 and Distribute #48: Introduced a socket timeout of 15 seconds on url openings

* Added indexsidebar.html into MANIFEST.in

* Distribute #108: Fixed TypeError with Python3.1

* Distribute #121: Fixed --help install command trying to actually install.

* Distribute #112: Added an os.makedirs so that Tarek's solution will work.

* Distribute #133: Added --no-find-links to easy_install

* Added easy_install --user

* Distribute #100: Fixed develop --user not taking '.' in PYTHONPATH into account

* Distribute #134: removed

spurious UserWarnings. Patch by VanLindberg

* Distribute #138: cant_write_to_target error when setup_requires is used.

* Distribute #147: respect the sys.dont_write_bytecode flag

0.6.10

* Reverted change made for the DistributionNotFound exception because
zc.buildout uses the exception message to get the name of the
distribution.

0.6.9

* Distribute #90: unknown setuptools version can be added in the working set

* Distribute #87: setup.py doesn't try to convert distribute_setup.py anymore
Initial Patch by arfrever.

* Distribute #89: added a side bar with a download link to the doc.

* Distribute #86: fixed missing sentence in pkg_resources doc.

* Added a nicer error message when a DistributionNotFound is raised.

* Distribute #80: test_develop now works with Python 3.1

* Distribute #93: upload_docs now works if there is an empty sub-directory.

* Distribute #70: exec bit on non-exec files

* Distribute #99: now the standalone easy_install command doesn't
uses a

"setup.cfg" if any exists in the working directory. It will use it
only if triggered by ``install_requires`` from a setup.py call
(install, develop, etc).

* Distribute #101: Allowing ``os.devnull`` in Sandbox

- * Distribute #92: Fixed the "no eggs" found error with MacPort (platform.mac_ver() fails)
- * Distribute #103: test_get_script_header_jython_workaround not run anymore under py3 with C or POSIX local. Contributed by Arfrever.
- * Distribute #104: removed the assertion when the installation fails, with a nicer message for the end user.
- * Distribute #100: making sure there's no SandboxViolation when the setup script patches setuptools.

0.6.8

- * Added "check_packages" in dist. (added in Setuptools 0.6c11)
- * Fixed the DONT_PATCH_SETUPTOOLS state.

0.6.7

- * Distribute #58: Added --user support to the develop command
- * Distribute #11: Generated scripts now wrap their call to the script entry point in the standard "if name == 'main'"
- * Added the 'DONT_PATCH_SETUPTOOLS' environment variable, so virtualenv can drive an installation that doesn't patch a global setuptools.
- * Reviewed unladen-swallow specific change from <http://code.google.com/p/unladen-swallow/source/detail?spec=svn875&r=719> and determined that it no longer applies. Distribute should work fine with Unladen Swallow 2009Q3.
- * Distribute #21: Allow PackageIndex.open_url to gracefully handle all cases of a httplib.HTTPException instead of just InvalidURL and BadStatusLine.
- * Removed virtual-python.py from this distribution and updated documentation to point to the actively maintained virtualenv instead.
- * Distribute #64: use_setuptools no longer rebuilds the distribute egg every time it is run
- * use_setuptools now properly respects the requested version
- * use_setuptools will no longer try to import a distribute egg for the wrong Python version
- * Distribute #74: no_fake should be True by default.
- * Distribute #72: avoid a bootstrapping issue with easy_install -U

0.6.6

- * Unified the bootstrap file so it works on both py2.x and py3k without 2to3

(patch by Holger Krekel)

0.6.5

- * Distribute #65: cli.exe and gui.exe are now generated at build time, depending on the platform in use.
- * Distribute #67: Fixed doc typo (PEP 381/382)
- * Distribute no longer shadows setuptools if we require a 0.7-series setuptools. And an error is raised when installing a 0.7 setuptools with distribute.
- * When run from within buildout, no attempt is made to modify an existing setuptools egg, whether in a shared egg directory or a system setuptools.
- * Fixed a hole in sandboxing allowing builtin file to write outside of the sandbox.

0.6.4

- * Added the generation of `distribute_setup_3k.py` during the release. This closes Distribute #52.
- * Added an upload_docs command to easily upload project documentation to PyPI's <https://pythonhosted.org>. This close issue Distribute #56.
- * Fixed a bootstrap bug on the use_setuptools() API.

0.6.3

setuptools
=====

- * Fixed a bunch of calls to file() that caused crashes on Python 3.

bootstrapping
=====

- * Fixed a bug in sorting that caused bootstrap to fail on Python 3.

0.6.2

setuptools

=====

* Added Python 3 support; see docs/python3.txt.

This closes Old Setuptools #39.

* Added option to run 2to3 automatically when installing on Python 3.

This closes issue Distribute #31.

* Fixed invalid usage of requirement.parse, that broke develop -d.

This closes Old Setuptools #44.

* Fixed script launcher for 64-bit Windows.

This closes Old Setuptools #2.

* KeyError when compiling extensions.

This closes Old Setuptools #41.

bootstrapping

=====

* Fixed bootstrap not working on Windows. This closes issue Distribute #49.

* Fixed 2.6 dependencies. This closes issue Distribute #50.

* Make sure setuptools is patched when running through easy_install

This closes Old Setuptools #40.

0.6.1

setuptools

=====

*

package_index.urlopen now catches BadStatusLine and malformed url errors.

This closes Distribute #16 and Distribute #18.

* zip_ok is now False by default. This closes Old Setuptools #33.

* Fixed invalid URL error catching. Old Setuptools #20.

* Fixed invalid bootstrapping with easy_install installation (Distribute #40).

Thanks to Florian Schulze for the help.

* Removed buildout/bootstrap.py. A new repository will create a specific bootstrap.py script.

bootstrapping

=====

* The bootstrap process leave setuptools alone if detected in the system and --root or --prefix is provided, but is not in the same location.

This closes Distribute #10.

0.6

setuptools

=====

* Packages required at build time where not fully present at install time.

This closes Distribute #12.

* Protected against failures in tarfile extraction. This closes Distribute #10.

* Made Jython api_tests.txt doctest compatible. This closes Distribute

#7.

* sandbox.py replaced builtin type file with builtin function open. This closes Distribute #6.

* Immediately close all file handles. This closes Distribute #3.

* Added compatibility with Subversion 1.6. This references Distribute #1.

pkg_resources

=====

* Avoid a call to /usr/bin/sw_vers on OSX and use the official platform API instead. Based on a patch from ronaldoussoren. This closes issue #5.

* Fixed a SandboxViolation for mkdir that could occur in certain cases.

This closes Distribute #13.

* Allow to find_on_path on systems with tight permissions to fail gracefully.

This closes Distribute #9.

* Corrected inconsistency between documentation and code of add_entry.

This closes Distribute #8.

* Immediately close all file handles. This closes Distribute #3.

easy_install

=====

* Immediately close all file handles. This closes Distribute #3.

0.6c9

* Fixed a missing files problem when using Windows source distributions on non-Windows platforms, due to distutils not handling manifest file line endings correctly.

* Updated Pyrex support to work with Pyrex 0.9.6 and higher.

* Minor changes for Jython compatibility, including skipping tests that can't work on Jython.

* Fixed not installing eggs in ``install_requires`` if they were also used for ``setup_requires`` or ``tests_require``.

* Fixed not fetching eggs in ``install_requires`` when running tests.

* Allow ``ez_setup.use_setuptools()`` to upgrade existing setuptools installations when called from a standalone ``setup.py``.

* Added a warning if a namespace package is declared, but its parent package is not also declared as a namespace.

* Support Subversion 1.5

* Removed use of deprecated ``md5`` module if ``hashlib`` is available

* Fixed ``bdist_wininst upload`` trying to upload the ``.exe`` twice

* Fixed ``bdist_egg`` putting a ``native_libs.txt`` in the source package's ``.egg-info``, when it should only be in the built egg's ``EGG-INFO``.

* Ensure that `_full_name` is set on all shared libs before extensions are checked for shared lib usage. (Fixes a bug in the experimental shared library build support.)

* Fix to allow unpacked eggs containing native libraries to fail more gracefully under Google App Engine (with an `ImportError` loading the C-based module, instead of getting a `NameError`).

0.6c7

* Fixed `distutils.filelist.findall()` crashing on broken symlinks, and `egg_info` command failing on new, uncommitted SVN directories.

* Fix import problems with nested namespace packages installed via `--root` or `--single-version-externally-managed`, due to the parent package not having the child package as an attribute.

0.6c6

* Added `--egg-path` option to `develop` command, allowing you to force `egg-link` files to use relative paths (allowing them to be shared across platforms on a networked drive).

* Fix not building binary RPMs correctly.

* Fix "eggsecutables" (such as `setuptools`' own egg) only being runnable with bash-compatible shells.

* Fix `#!` parsing problems in Windows `.exe` script wrappers, when there was whitespace inside a quoted argument or at the end of the `#!` line (a regression introduced in 0.6c4).

* Fix `test` command possibly failing if an older version of the project being tested was installed on `sys.path` ahead of the test source directory.

* Fix `find_packages()` treating `ez_setup` and directories with `.` in their names as packages.

0.6c5

* Fix uploaded `bdist_rpm` packages being described as `bdist_egg` packages under Python versions less than 2.5.

* Fix uploaded `bdist_wininst` packages being described as suitable for

"any" version by Python 2.5, even if a ``--target-version`` was specified.

0.6c4

- * Overhauled Windows script wrapping to support ``bdist_wininst`` better. Scripts installed with ``bdist_wininst`` will always use ``#!python.exe`` or ``#!pythonw.exe`` as the executable name (even when built on non-Windows platforms!), and the wrappers will look for the executable in the script's parent directory (which should find the right version of Python).
- * Fix ``upload`` command not uploading files built by ``bdist_rpm`` or ``bdist_wininst`` under Python 2.3 and 2.4.
- * Add support for "eggexecutable" headers: a ``#!/bin/sh`` script that is prepended to an ``.egg`` file to allow it to be run as a script on Unix-ish platforms. (This is mainly so that setuptools itself can have a single-file installer on Unix, without doing multiple downloads, dealing with firewalls, etc.)
- * Fix problem with empty revision numbers in Subversion 1.4 ``entries`` files
- * Use cross-platform relative paths in ``easy-install.pth`` when doing ``develop`` and the source directory is a subdirectory of the installation target directory.
- * Fix a problem installing eggs with a system packaging tool if the project contained an implicit namespace package; for example if the ``setup()`` listed a namespace package ``foo.bar`` without explicitly listing ``foo`` as a namespace package.

0.6c3

- * Fixed breakages caused by Subversion 1.4's new "working copy" format

0.6c2

- * The ``ez_setup`` module displays the conflicting version of setuptools (and its installation location) when a script requests a version that's not available.

* Running `setup.py develop` on a setuptools-using project will now install setuptools if needed, instead of only downloading the egg.

0.6c1

* Fixed `AttributeError` when trying to download a `setup_requires` dependency when a distribution lacks a `dependency_links` setting.

* Made `zip-safe` and `not-zip-safe` flag files contain a single byte, so as to play better with packaging tools that complain about zero-length files.

* Made `setup.py develop` respect the `--no-deps` option, which it previously was ignoring.

* Support `extra_path` option to `setup()` when `install` is run in backward-compatibility mode.

* Source distributions now always include a `setup.cfg` file that explicitly sets `egg_info` options such that they produce an identical version number to the source distribution's version number. (Previously, the default version number could be different due to the use of `--tag-date`, or if the version was overridden on the command line that built the source distribution.)

0.6b4

* Fix `register` not obeying name/version set by `egg_info` command, if `egg_info` wasn't explicitly run first on the same command line.

* Added `--no-date` and `--no-svn-revision` options to `egg_info` command, to allow suppressing tags configured in `setup.cfg`.

* Fixed redundant warnings about missing `README` file(s); it should now appear only if you are actually a source distribution.

0.6b3

* Fix `bdist_egg` not including files in subdirectories of `.egg-info`.

* Allow `.py` files found by the `include_package_data` option to be automatically included. Remove duplicate data file matches if both `include_package_data` and `package_data` are used to refer to the same files.

0.6b1

* Strip `module` from the end of compiled extension modules when computing the name of a `.py` loader/wrapper. (Python's import machinery ignores this suffix when searching for an extension module.)

0.6a11

* Added `test_loader` keyword to support custom test loaders

* Added `setuptools.file_finders` entry point group to allow implementing revision control plugins.

* Added `--identity` option to `upload` command.

* Added `dependency_links` to allow specifying URLs for `--find-links`.

* Enhanced test loader to scan packages as well as modules, and call `additional_tests()` if present to get non-unittest tests.

* Support namespace packages in conjunction with system packagers, by omitting the installation of any `__init__.py` files for namespace packages, and adding a special `.pth` file to create a working package in `sys.modules`.

* Made `--single-version-externally-managed` automatic when `--root` is used, so that most system packagers won't require special support for `setuptools`.

* Fixed `setup_requires`, `tests_require`, etc. not using `setup.cfg` or other configuration files for their option defaults when installing, and also made the install use `--multi-version` mode so that the project directory doesn't need to support `.pth` files.

* `MANIFEST.in` is now forcibly closed when any errors occur while reading it. Previously, the file could be left open and the actual error would be masked by problems trying to remove the open file on Windows systems.

0.6a10

* Fixed the ``develop`` command ignoring ``--find-links``.

0.6a9

* The ``sdist`` command no longer uses the traditional ``MANIFEST`` file to create source distributions. ``MANIFEST.in`` is still read and processed, as are the standard defaults and pruning. But the manifest is built inside the project's ``.egg-info`` directory as ``SOURCES.txt``, and it is rebuilt every time the ``egg_info`` command is run.

* Added the ``include_package_data`` keyword to ``setup()``, allowing you to automatically include any package data listed in revision control or ``MANIFEST.in``

* Added the ``exclude_package_data`` keyword to ``setup()``, allowing you to trim back files included via the ``package_data`` and ``include_package_data`` options.

* Fixed ``--tag-svn-revision`` not working when run from a source distribution.

* Added warning for namespace packages with missing ``declare_namespace()``

* Added ``tests_require`` keyword to ``setup()``, so that e.g. packages requiring ``nose`` to run unit tests can make this dependency optional unless the ``test`` command is run.

* Made all commands that use ``easy_install`` respect its configuration options, as this was causing some problems with ``setup.py install``.

* Added an ``unpack_directory()`` driver to ``setuptools.archive_util``, so that you can process a directory tree through a processing filter as if it were a zipfile or tarfile.

* Added an internal ``install_egg_info`` command to use as part of old-style ``install`` operations, that installs an ``.egg-info`` directory with the package.

* Added a ``--single-version-externally-managed`` option to the ``install`` command so that you can more easily wrap a "flat" egg in a system package.

* Enhanced ``bdist_rpm`` so that it installs single-version eggs that

don't rely on a `.pth` file. The `--no-egg` option has been removed, since all RPMs are now built in a more backwards-compatible format.

- * Support full roundtrip translation of eggs to and from `bdist_wininst` format. Running `bdist_wininst` on a setuptools-based package wraps the egg in an `.exe` that will safely install it as an egg (i.e., with metadata and entry-point wrapper scripts), and `easy_install` can turn the `.exe` back into an `.egg` file or directory and install it as such.

0.6a8

- * Fixed some problems building extensions when Pyrex was installed, especially with Python 2.4 and/or packages using SWIG.
- * Made `develop` command accept all the same options as `easy_install`, and use the `easy_install` command's configuration settings as defaults.
- * Made `egg_info --tag-svn-revision` fall back to extracting the revision number from `PKG-INFO` in case it is being run on a source distribution of a snapshot taken from a Subversion-based project.
- * Automatically detect `.dll`, `.so` and `.dylib` files that are being installed as data, adding them to `native_libs.txt` automatically.
- * Fixed some problems with fresh checkouts of projects that don't include `.egg-info/PKG-INFO` under revision control and put the project's source code directly in the project directory. If such a package had any requirements that get processed before the `egg_info` command can be run, the setup scripts would fail with a "Missing 'Version:' header and/or PKG-INFO file" error, because the egg runtime interpreted the unbuilt metadata in a directory on `sys.path` (i.e. the current directory) as being a corrupted egg. Setuptools now monkeypatches the distribution metadata cache to pretend that the egg has valid version information, until it has a chance to make it actually be so (via the `egg_info` command).

0.6a5

- * Fixed missing gui/cli `.exe` files in distribution. Fixed bugs in tests.

0.6a3

- * Added `gui_scripts` entry point group to allow installing GUI scripts on Windows and other platforms. (The special handling is only for Windows; other platforms are treated the same as for `console_scripts`.)

0.6a2

- * Added `console_scripts` entry point group to allow installing scripts without the need to create separate script files. On Windows, console scripts get an `.exe` wrapper so you can just type their name. On other platforms, the scripts are written without a file extension.

0.6a1

- * Added support for building "old-style" RPMs that don't install an egg for the target package, using a `--no-egg` option.
- * The `build_ext` command now works better when using the `--inplace` option and multiple Python versions. It now makes sure that all extensions match the current Python version, even if newer copies were built for a different Python version.
- * The `upload` command no longer attaches an extra `.zip` when uploading eggs, as PyPI now supports egg uploads without trickery.
- * The `ez_setup` script/module now displays a warning before downloading the setuptools egg, and attempts to check the downloaded egg against an internal MD5 checksum table.
- * Fixed the `--tag-svn-revision` option of `egg_info` not finding the latest revision number; it was using the revision number of the directory containing `setup.py`, not the highest revision number in the project.
- * Added `eager_resources` setup argument
- * The `sdist` command now recognizes Subversion "deleted file" entries and does not include them in source distributions.
- * `setuptools` now embeds itself more thoroughly into the distutils, so that other distutils extensions (e.g. `py2exe`, `py2app`) will subclass setuptools' versions of things, rather than the native distutils ones.

* Added `entry_points` and `setup_requires` arguments to `setup()`;
`setup_requires` allows you to automatically find and download packages
that are needed in order to
build your project (as opposed to running it).

* `setuptools` now finds its commands, `setup()` argument validators, and
metadata writers using entry points, so that they can be extended by
third-party packages. See `Creating distutils Extensions`
<<http://pythonhosted.org/setuptools/setuptools.html#creating-distutils-extensions>>`_
for more details.

* The vestigial `depends` command has been removed. It was never finished
or documented, and never would have worked without EasyInstall - which it
pre-dated and was never compatible with.

0.5a12

* The zip-safety scanner now checks for modules that might be used with
`python -m`, and marks them as unsafe for zipping, since Python 2.4 can't
handle `-m` on zipped modules.

0.5a11

* Fix breakage of the "develop" command that was caused by the addition of
`--always-unzip` to the `easy_install` command.

0.5a9

* Include `svn:externals` directories in
source distributions as well as
normal subversion-controlled files and directories.

* Added `exclude=patternlist` option to `setuptools.find_packages()`

* Changed `--tag-svn-revision` to include an "r" in front of the revision number
for better readability.

* Added ability to build eggs without including source files (except for any
scripts, of course), using the `--exclude-source-files` option to
`bdist_egg`.

* `setup.py install` now automatically detects when an "unmanaged" package

or module is going to be on `sys.path` ahead of a package being installed, thereby preventing the newer version from being imported. If this occurs, a warning message is output to `sys.stderr`, but installation proceeds anyway. The warning message informs the user what files or directories need deleting, and advises them they can also use EasyInstall (with the `--delete-conflicting` option) to do it automatically.

- * The `egg_info` command now adds a `top_level.txt` file to the metadata directory that lists all top-level modules and packages in the distribution. This is used by the `easy_install` command to find possibly-conflicting "unmanaged" packages when installing the distribution.
- * Added `zip_safe` and `namespace_packages` arguments to `setup()`. Added package analysis to determine zip-safety if the `zip_safe` flag is not given, and advise the author regarding what code might need changing.
- * Fixed the swapped `-d` and `-b` options of `bdist_egg`.

0.5a8

- * The `egg_info` command now always sets the distribution metadata to "safe" forms of the distribution name and version, so that distribution files will be generated with parseable names (i.e., ones that don't include '-' in the name or version). Also, this means that if you use the various `--tag` options of `egg_info`, any distributions generated will use the tags in the version, not just egg distributions.
- * Added support for defining command aliases in distutils configuration files, under the "[aliases]" section. To prevent recursion and to allow aliases to call the command of the same name, a given alias can be expanded only once per command-line invocation. You can define new aliases with the `alias` command, either for the local, global, or per-user configuration.
- * Added `rotate` command to delete old distribution files, given a set of patterns to match and the number of files to keep. (Keeps the most recently-modified distribution files matching each pattern.)
- * Added `saveopts` command that saves all command-line options for the current invocation to the local, global, or per-user configuration file. Useful for setting defaults without having to hand-edit a configuration file.
- * Added a `setopt` command that sets a single option in a specified distutils configuration file.

0.5a7

* Added "upload" support for egg and source distributions, including a bug fix for "upload" and a temporary workaround for lack of .egg support in PyPI.

0.5a6

* Beefed up the "sdist" command so that if you don't have a MANIFEST.in, it will include all files under revision control (CVS or Subversion) in the current directory, and it will regenerate the list every time you create a source distribution, not just when you tell it to. This should make the default "do what you mean" more often than the distutils' default behavior did, while still retaining the old behavior in the presence of MANIFEST.in.

* Fixed the "develop" command always updating .pth files, even if you specified ``-n`` or ``--dry-run``.

* Slightly changed the format of the generated version when you use ``--tag-build`` on the "egg_info" command, so that you can make tagged revisions compare *lower* than the version specified in setup.py (e.g. by using ``--tag-build=dev``).

0.5a5

* Added ``develop`` command to ``setuptools``-based packages. This command installs an ``.egg-link`` pointing to the package's source directory, and script wrappers that ``execfile()`` the source versions of the package's scripts. This lets you put your development checkout(s) on sys.path without having to actually install them. (To uninstall the link, use ``setup.py develop --uninstall``.)

* Added ``egg_info`` command to ``setuptools``-based packages. This command just creates or updates the "projectname.egg-info" directory, without building an egg. (It's used by the ``bdist_egg``, ``test``, and ``develop`` commands.)

* Enhanced the ``test`` command so that it doesn't install the package, but instead builds any C extensions in-place, updates the ``.egg-info`` metadata, adds the source directory to ``sys.path``, and runs the tests directly on the source. This avoids an "unmanaged" installation of the

package to `site-packages` or elsewhere.

* Made `easy_install`

a standard `setuptools` command, moving it from the `easy_install` module to `setuptools.command.easy_install`. Note that if you were importing or extending it, you must now change your imports accordingly. `easy_install.py` is still installed as a script, but not as a module.

0.5a4

* Setup scripts using `setuptools` can now list their dependencies directly in the `setup.py` file, without having to manually create a `depends.txt` file. The `install_requires` and `extras_require` arguments to `setup()` are used to create a dependencies file automatically. If you are manually creating `depends.txt` right now, please switch to using these setup arguments as soon as practical, because `depends.txt` support will be removed in the 0.6 release cycle. For documentation on the new arguments, see the `setuptools.dist.Distribution` class.

* Setup scripts using `setuptools` now always install using `easy_install` internally, for ease of uninstallation and upgrading.

0.5a1

* Added support for "self-installation" bootstrapping. Packages can now include `ez_setup.py` in their source distribution, and add the following to their `setup.py`, in order to automatically bootstrap installation of `setuptools` as part of their setup process::

```
from ez_setup import use_setuptools
use_setuptools()
```

```
from setuptools import setup
# etc...
```

0.4a2

* Added `ez_setup.py` installer/bootstrap script to make initial `setuptools` installation easier, and to allow distributions using `setuptools` to avoid having to include `setuptools` in their source distribution.

* All downloads are now managed by the `PackageIndex` class (which is now subclassable and replaceable), so that embedders can more easily override download logic, give download progress reports, etc. The class has also been moved to the new `setuptools.package_index` module.

* The `Installer` class no longer handles downloading, manages a temporary directory, or tracks the `zip_ok` option. Downloading is now handled by `PackageIndex`, and `Installer` has become an `easy_install` command class based on `setuptools.Command`.

* There is a new `setuptools.sandbox.run_setup()` API to invoke a setup script in a directory sandbox, and a new `setuptools.archive_util` module with an `unpack_archive()` API. These were split out of `EasyInstall` to allow reuse by other tools and applications.

* `setuptools.Command` now supports reinitializing commands using keyword arguments to set/reset options. Also, `Command` subclasses can now set their `command_consumes_arguments` attribute to `True` in order to receive an `args` option containing the rest of the command line.

0.3a2

* Added new options to `bdist_egg` to allow tagging the egg's version number with a subversion revision number, the current date, or an explicit tag value. Run `setup.py bdist_egg --help` to get more information.

* Misc. bug fixes

0.3a1

* Initial release.

Found in path(s):

* `/opt/cola/permits/174431683_1695325757.7531395/0/setuptools-18-2-tar-gz/setuptools-18.2/CHANGES.txt`

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

=====
Building and Distributing Packages with Setuptools
=====

`Setuptools` is a collection of enhancements to the Python `distutils` (for Python 2.6 and up) that allow developers to more easily build and distribute Python packages, especially ones that have dependencies on other

packages.

Packages built and distributed using ``setuptools`` look to the user like ordinary Python packages based on the ``distutils``. Your users don't need to install or even know about setuptools in order to use them, and you don't have to include the entire setuptools package in your distributions. By including just a single `bootstrap module`_ (a 12K .py file), your package will automatically download and install ``setuptools`` if the user is building your package from source and doesn't have a suitable version already installed.

.. _bootstrap

module: https://bootstrap.pypa.io/ez_setup.py

Feature Highlights:

- * Automatically find/download/install/upgrade dependencies at build time using the `EasyInstall tool <[easy_install.html](#)>`_, which supports downloading via HTTP, FTP, Subversion, and SourceForge, and automatically scans web pages linked from PyPI to find download links. (It's the closest thing to CPAN currently available for Python.)
- * Create `Python Eggs <<http://peak.telecommunity.com/DevCenter/PythonEggs>>`_ - a single-file importable distribution format
- * Enhanced support for accessing data files hosted in zipped packages.
- * Automatically include all packages in your source tree, without listing them individually in setup.py
- * Automatically include all relevant files in your source distributions, without needing to create a ``MANIFEST.in`` file, and without having to force regeneration of the ``MANIFEST`` file when your source tree changes.
- * Automatically generate wrapper scripts or Windows (console and GUI) .exe files for any number of "main" functions in your project. (Note: this is not a py2exe replacement; the .exe files rely on the local Python installation.)
- * Transparent Pyrex support, so that your setup.py can list ``.pyx`` files and still work even when the end-user doesn't have Pyrex installed (as long as you include the Pyrex-generated C in your source distribution)
- * Command aliases - create project-specific, per-user, or site-wide shortcut names for commonly used commands and options
- * PyPI upload support - upload your source distributions and eggs to PyPI
- * Deploy your project in "development mode", such that it's available on

`sys.path`, yet can still be edited directly from its source checkout.

* Easily extend the distutils with new commands or `setup()` arguments, and distribute/reuse your extensions for multiple projects, without copying code.

* Create extensible applications and frameworks that automatically discover extensions, using simple "entry points" declared in a project's setup script.

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>

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

`.._ez_setup.py`: `bootstrap module`

Developer's Guide

Installing `setuptools`

=====

Please follow the `EasyInstall Installation Instructions` to install the current stable version of `setuptools`. In particular, be sure to read the section on `Custom Installation Locations` if you are installing anywhere other than Python's `site-packages` directory.

`.._EasyInstall Installation Instructions`: easy_install.html#installation-instructions

`.._Custom Installation Locations`: easy_install.html#custom-installation-locations

If you want the current in-development version of `setuptools`, you should first install a stable version, and then run:

```
ez_setup.py setuptools==dev
```

This will download and install the latest development (i.e. unstable) version of `setuptools` from the Python Subversion sandbox.

Basic Use

=====

For basic use of setuptools, just import things from setuptools instead of the distutils. Here's a minimal setup script using setuptools::

```
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
)
```

As you can see, it doesn't take much to use setuptools in a project. Just by doing the above, this project will be able to produce eggs, upload to PyPI, and automatically include all packages in the directory where the setup.py lives. See the `Command Reference`_ section below to see what commands you can give to this setup script.

Of course, before you release your project to PyPI, you'll want to add a bit more information to your setup script to help people find or learn about your project. And maybe your project will have grown by then to include a few dependencies, and perhaps some data files and scripts::

```
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
    scripts = ['say_hello.py'],

    # Project uses reStructuredText, so ensure that the docutils get
    # installed or upgraded on the target machine
    install_requires = ['docutils>=0.3'],

    package_data = {
        # If any package contains *.txt or *.rst files, include them:
        "": ['*.txt', '*.rst'],
        # And include any *.msg files found in the 'hello' package, too:
        'hello': ['*.msg'],
    },

    # metadata for upload to PyPI
    author = "Me",
    author_email = "me@example.com",
    description = "This is an Example Package",
```

```

license = "PSF",
keywords = "hello world example examples",
url = "http://example.com/HelloWorld/", # project home page, if any

# could also include long_description, download_url, classifiers, etc.
)

```

In the sections that follow, we'll explain what most of these `setup()` arguments do (except for the metadata ones), and the various ways you might use them in your own project(s).

Specifying Your Project's Version

Setuptools can work well with most versioning schemes; there are, however, a few special things to watch out for, in order to ensure that setuptools and EasyInstall can always tell what version of your package is newer than another version. Knowing these things will also help you correctly specify what versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release or post-release tags. A release number is a series of digits punctuated by dots, such as `2.4` or `0.5`. Each series of digits is treated numerically, so releases `2.1` and `2.1.0` are different ways to spell the same release number, denoting the first subrelease of release 2. But `2.10` is the *tenth* subrelease of release 2, and so is a different and newer release from `2.1` or `2.1.0`. Leading zeros within a series of digits are also ignored, so `2.01` is the same as `2.1`, and different from `2.0.1`.

Following a release number, you can have either a pre-release or post-release tag. Pre-release tags make a version be considered *older* than the version they are appended to. So, revision `2.4` is *newer* than revision `2.4c1`, which in turn is newer than `2.4b1` or `2.4a1`. Postrelease tags make a version be considered *newer* than the version they are appended to. So, revisions like `2.4-1` and `2.4pl3` are newer than `2.4`, but are *older* than `2.4.1` (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before "final". Some examples of prerelease tags would include `alpha`, `beta`, `a`, `c`, `dev`, and so on. You do not have to place a dot or dash before the prerelease tag if it's immediately after a number, but it's okay to do so if you prefer. Thus, `2.4c1` and `2.4.c1` and `2.4-c1` all represent release candidate 1 of version `2.4`, and are treated as identical by setuptools.

In addition, there are three special prerelease tags that are treated as if they were the letter `c`: `pre`, `preview`, and `rc`. So, version `2.4rc1`, `2.4pre1` and `2.4preview1` are all the exact same version as `2.4c1`, and are treated as identical by `setuptools`.

A post-release tag is either a series of letters that are alphabetically greater than or equal to "final", or a dash (`-`). Post-release tags are generally used to separate patch numbers, port numbers, build numbers, revision numbers, or date stamps from the release number. For example, the version `2.4-r1263` might denote Subversion revision 1263 of a post-release patch of version `2.4`. Or you might use `2.4-20051127` to denote a date-stamped post-release.

Notice that after each pre or post-release tag, you are free to place another release number, followed again by more pre- or post-release tags. For example, `0.6a9.dev-r41475` could denote Subversion revision 41475 of the in-development version of the ninth alpha of release 0.6. Notice that `dev` is a pre-release tag, so this version is a *lower* version number than `0.6a9`, which would be the actual ninth alpha of release 0.6. But the `-r41475` is a post-release tag, so this version is *newer* than `0.6a9.dev`.

For the most part, `setuptools`' interpretation of version numbers is intuitive, but here are a few tips that will keep you out of trouble in the corner cases:

*

Don't stick adjoining pre-release tags together without a dot or number between them. Version `1.9adev` is the `adev` prerelease of `1.9`, *not* a development pre-release of `1.9a`. Use `.dev` instead, as in `1.9a.dev`, or separate the prerelease tags with a number, as in `1.9a0dev`. `1.9a.dev`, `1.9a0dev`, and even `1.9.a.dev` are identical versions from `setuptools`' point of view, so you can use whatever scheme you prefer.

* If you want to be certain that your chosen numbering scheme works the way you think it will, you can use the `pkg_resources.parse_version()` function to compare different version numbers::

```
>>> from pkg_resources import parse_version
>>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
True
>>> parse_version('2.1-rc2') < parse_version('2.1')
True
>>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
True
```

Once you've decided on a version numbering scheme for your project, you

can

have `setuptools` automatically tag your in-development releases with various pre- or post-release tags. See the following sections for more details:

- * `Tagging and "Daily Build" or "Snapshot" Releases`_``
- * `Managing "Continuous Releases" Using Subversion`_``
- * The `egg_info`_`` command

New and Changed `setup()` Keywords

=====

The following keyword arguments to `setup()` are added or changed by `setuptools`. All of them are optional; you do not have to supply them unless you need the associated `setuptools` feature.

`include_package_data`_``

If set to `True`_``, this tells `setuptools`_`` to automatically include any data files it finds inside your package directories, that are either under CVS or Subversion control, or which are specified by your `MANIFEST.in`_`` file. For more information, see the section below on `Including Data Files`_``.

`exclude_package_data`_``

A dictionary mapping package names to lists of glob patterns that should be *excluded`_`* from your package directories. You can use this to trim back any excess files included by `include_package_data`_``. For a complete description and examples, see the section below on `Including Data Files`_``.

`package_data`_``

A dictionary mapping package names to lists of glob patterns. For a complete description and examples, see the section below on `Including Data Files`_``. You do not need to use this option if you are using `include_package_data`_``, unless you need to add e.g. files that are generated by your setup script and build process. (And are therefore not in source control or are files that you don't want to include in your source distribution.)

`zip_safe`_``

A boolean (True or False) flag specifying whether the project can be safely installed and run from a zip file. If this argument is not supplied, the `bdist_egg`_`` command will have to analyze all of your project's contents for possible problems each time it builds an egg.

`install_requires`_``

A string or list of strings specifying what other distributions need to

be installed when this one is. See the section below on `Declaring Dependencies`_`` for details and examples of the format of this argument.

```entry_points```

A dictionary mapping entry point group names to strings or lists of strings defining the entry points. Entry points are used to support dynamic discovery of services or plugins provided by a project. See `Dynamic Discovery of Services and Plugins`_`` for details and examples of the format of this argument. In addition, this keyword is used to support `Automatic Script Creation`_``.

```extras_require```

A dictionary mapping names of "extras" (optional features of your project) to strings or lists of strings specifying what other distributions must be installed to support those features. See the section below on `Declaring Dependencies`_`` for details and examples of the format of this argument.

```setup_requires```

A string or list of strings specifying what other distributions need to be present in order for the `*setup script*` to run. ```setuptools``` will attempt to obtain these (even going so far as to download them using ```EasyInstall```) before processing the rest of the setup script or commands. This argument is needed if you are using distutils extensions as part of your build process; for example, extensions that process `setup()` arguments and turn them into EGG-INFO metadata files.

(Note: projects listed in ```setup_requires``` will NOT be automatically installed on the system where the setup script is being run. They are simply downloaded to the `./eggs` directory if they're not locally available already. If you want them to be installed, as well as being available when the setup script is run, you should add them to ```install_requires``` `**and**` ```setup_requires```.)

```dependency_links```

A list of strings naming URLs to be searched when satisfying dependencies. These links will be used if needed to install packages specified by ```setup_requires``` or ```tests_require```. They will also be written into the egg's metadata for use by tools like EasyInstall to use when installing an ```.egg``` file.

```namespace_packages```

A list of strings naming the project's "namespace packages". A namespace package is a package that may be split across multiple project distributions. For example, Zope 3's ```zope``` package is a namespace package, because subpackages like ```zope.interface``` and ```zope.publisher``` may be distributed separately. The egg runtime system can automatically merge such subpackages into a single parent package at runtime, as long

as you declare them in each project that contains any subpackages of the namespace package, and as long as the namespace package's `__init__.py` does not contain any code other than a namespace declaration. See the section below on `Namespace Packages` for more information.

`test_suite`

A string naming a `unittest.TestCase` subclass (or a package or module containing one or more of them, or a method of such a subclass), or naming a function that can be called with no arguments and returns a `unittest.TestSuite`. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the results are added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test_` command to run the specified test suite, e.g. via `setup.py test`. See the section on the `test_` command below for more details.

`tests_require`

If your project's tests need one or more additional packages besides those needed to install it, you can use this option to specify them. It should be a string or list of strings specifying what other distributions need to be present for the package's tests to run. When you run the `test` command, `setuptools` will attempt to obtain these (even going so far as to download them using `EasyInstall`). Note that these required projects will *not* be installed on the system where the tests are run, but only downloaded to the project's setup directory if they're not already installed locally.

`.. _test_loader:`

`test_loader`

If you would like to use a different way of finding tests to run than what `setuptools` normally uses, you can specify a module name and class name in this argument. The named class must be instantiable with no arguments, and its instances must support the `loadTestsFromNames()` method as defined in the Python `unittest` module's `TestLoader` class. `Setuptools` will pass only one test "name" in the `names` argument:

the value supplied for

the `test_suite` argument. The loader you specify may interpret this string in any way it likes, as there are no restrictions on what may be contained in a `test_suite` string.

The module name and class name must be separated by a `:`. The default value of this argument is `setuptools.command.test:ScanningLoader`. If you want to use the default `unittest` behavior, you can specify

`unittest:TestLoader` as your `test_loader` argument instead. This will prevent automatic scanning of submodules and subpackages.

The module and class you specify here may be contained in another package, as long as you use the `tests_require` option to ensure that the package containing the loader class is available when the `test` command is run.

`eager_resources`

A list of strings naming resources that should be extracted together, if any of them is needed, or if any C extensions included in the project are imported. This argument is only useful if the project will be installed as a zipfile, and there is a need to have all of the listed resources be extracted to the filesystem *as a unit*. Resources listed here should be `'`-separated paths, relative to the source root, so to list a resource `foo.png` in package `bar.baz`, you would include the string `bar/baz/foo.png` in this argument.

If you only need to obtain resources one at a time, or you don't have any C extensions that access other files in the project (such as data files or shared libraries), you probably do NOT need this argument and shouldn't mess with it. For more details on how this argument works, see the section below on `Automatic Resource Extraction`.

`use_2to3`

Convert the source code from Python 2 to Python 3 with 2to3 during the build process. See `:doc:python3` for more details.

`convert_2to3_doctests`

List of doctest source files that need to be converted with 2to3. See `:doc:python3` for more details.

`use_2to3_fixers`

A list of modules to search for additional fixers to be used during the 2to3 conversion. See `:doc:python3` for more details.

Using `find_packages()`

For simple projects, it's usually easy enough to manually add packages to the `packages` argument of `setup()`. However, for very large projects (Twisted, PEAK, Zope, Chandler, etc.), it can be a big burden to keep the package list updated. That's what `setuptools.find_packages()` is for.

`find_packages()` takes a source directory and two lists of package name patterns to exclude and include. If omitted, the source directory defaults to

the same directory as the setup script. Some projects use a `src` or `lib` directory as the root of their source tree, and those projects would of course use `src` or `lib` as the first argument to `find_packages()`. (And such projects also need something like `package_dir = {'src'}` in their `setup()` arguments, but that's just a normal distutils thing.)

Anyway, `find_packages()` walks the target directory, filtering by inclusion patterns, and finds Python packages (any directory). On Python 3.2 and earlier, packages are only recognized if they include an `__init__.py` file. Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including wildcards. For example, `find_packages(exclude=["*.tests"])` will exclude all packages whose last name part is `tests`. Or, `find_packages(exclude=["*.tests", "*.tests.*"])` will also exclude any subpackages of packages named `tests`, but it still won't exclude a top-level `tests` package or the children thereof. In fact, if you really want no `tests` packages at all, you'll need something like this::

```
find_packages(exclude=["*.tests", "*.tests.*", "tests.*", "tests"])
```

in order to cover all the bases. Really, the exclusion patterns are intended to cover simpler use cases than this, like excluding a single, specified package and its subpackages.

Regardless of the parameters, the `find_packages()` function returns a list of package names suitable for use as the `packages` argument to `setup()`, and so is usually the easiest way to set that argument in your setup script. Especially since it frees you from having to remember to modify your setup script whenever your project grows additional top-level packages or subpackages.

Automatic Script Creation

=====

Packaging and installing scripts can be a bit awkward with the distutils. For one thing, there's no easy way to have a script's filename match local conventions on both Windows and POSIX platforms. For another, you often have to create a separate file just for the "main" script, when your actual "main" is a function in a module somewhere. And even in Python 2.4, using the `-m` option only works for actual `.py` files that aren't installed in a package.

`setuptools` fixes all of these problems by automatically generating scripts for you with the correct extension, and on Windows it will even create an `.exe` file so that users don't have to change their `PATHEXT` settings. The way to use this feature is to define "entry points" in your setup script that indicate what function the generated script should import and run. For example, to create two console scripts called `foo` and `bar`, and a GUI script called `baz`, you might do something like this::

```
setup(
    # other arguments here...
    entry_points={
        'console_scripts': [
            'foo = my_package.some_module:main_func',
            'bar = other_module:some_func',
        ],
        'gui_scripts': [
            'baz = my_package_gui:start_func',
        ]
    }
)
```

When this project is installed on non-Windows platforms (using `setup.py install`, `setup.py develop`, or by using EasyInstall), a set of `foo`, `bar`, and `baz` scripts will be installed that import `main_func` and `some_func` from the specified modules. The functions you specify are called with no arguments, and their return value is passed to `sys.exit()`, so you can return an errorlevel or message to print to stderr.

On Windows, a set of `foo.exe`, `bar.exe`, and `baz.exe` launchers are created, alongside a set of `foo.py`, `bar.py`, and `baz.pyw` files. The `.exe` wrappers find and execute the right version of Python to run the `.py` or `.pyw` file.

You may define as many "console script" and "gui script" entry points as you like, and each one can optionally specify "extras" that it depends on, that will be added to `sys.path` when the script is run. For more information on "extras", see the section below on `Declaring Extras`. For more information on "entry points" in general, see the section below on `Dynamic Discovery of Services and Plugins`.

"Eggsecutable" Scripts

Occasionally, there are situations where it's desirable to make an `.egg` file directly executable. You can do this by including an entry point such

as the following::

```
setup(  
    # other arguments here...  
    entry_points = {  
        'setuptools.installation': [  
            'eggsecutable = my_package.some_module:main_func',  
        ]  
    }  
)
```

Any eggs built from the above setup script will include a short executable prelude that imports and calls `main_func()` from `my_package.some_module`. The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with `/bin/sh`, or by enabling execute permissions on the `.egg` file. For the executable prelude to run, the appropriate version of Python must be available via the `PATH` environment variable, under its "long" name. That is, if the egg is built for Python 2.3, there must be a `python2.3` executable present in a directory on `PATH`.

This feature is primarily intended to support `ez_setup` the installation of `setuptools` itself on non-Windows platforms, but may also be useful for other projects as well.

IMPORTANT NOTE: Eggs with an "eggsecutable" header cannot be renamed, or invoked via symlinks. They *must* be invoked using their original filename, in order to ensure that, once running, `pkg_resources` will know what project and version is in use. The header script will check this and exit with an error if the `.egg` file has been renamed or is invoked via a symlink that changes its base name.

Declaring Dependencies

=====

`setuptools` supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that package management tools like EasyInstall can use the information).

`setuptools` and `pkg_resources` use a common syntax for specifying a project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version specifiers. A version specifier is one of the operators `<`, `>`, `<=`, `>=`, `==` or `!=`, followed by a version identifier. Tokens may be separated by whitespace, but any whitespace or nonstandard characters within a

project name or version identifier must be replaced with ``-``.

Version specifiers for a given project are internally sorted into ascending version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. ``>1, >2`` becomes ``>1``, and ``<2, <3`` becomes ``<3``). ``!=`` versions are excised from the ranges they fall within. A project's version is then checked for membership in the resulting ranges. (Note that providing conflicting conditions for the same version (e.g. ``<2, >=2`` or ``==2, !=2``) is meaningless and may therefore produce bizarre results.)

Here are some example requirement specifiers::

```
docutils >= 0.3
```

```
# comment lines and \ continuations are allowed in requirement strings
BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, \
    ==1.6, ==1.7 # and so are line-end comments
```

```
PEAK[FastCGI, reST]>=0.5a4
```

```
setuptools==0.5a7
```

The simplest way to include requirement specifiers is to use the ``install_requires`` argument to ``setup()``. It takes a string or list of strings containing requirement specifiers. If you include more than one requirement in a string, each requirement must begin on a new line.

This has three effects:

1. When your project is installed, either by using EasyInstall, ``setup.py install``, or ``setup.py develop``, all of the dependencies not already installed will be located (via PyPI), downloaded, built (if necessary), and installed.
2. Any scripts in your project will be installed with wrappers that verify the availability of the specified dependencies at runtime, and ensure that the correct versions are added to ``sys.path`` (e.g. if multiple versions have been installed).
3. Python Egg distributions will include a metadata file listing the dependencies.

Note, by the way, that if you declare your dependencies in ``setup.py``, you do *not* need to use the ``require()`` function in your scripts or modules, as long as you either install the project or use ``setup.py develop`` to do development work on it. (See "Development Mode" below for more details on

using `setup.py develop`.)

Dependencies that aren't in PyPI

If your project depends on packages that aren't registered in PyPI, you may still be able to depend on them, as long as they are available for download as:

- an egg, in the standard distutils `sdist` format,
- a single `.py` file, or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the `dependency_links` argument to `setup()`.

The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or
3. the repository's URL

In general, it's better to link to web pages, because it is usually less complex to update a web page than to release a new version of your project. You can also use a SourceForge `showfiles.php` link in the case where a package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single `.py` file, you must include an `"#egg=project-version"` suffix to the URL, to give a project name and version number. (Be sure to escape any dashes in the name or version by replacing them with underscores.) EasyInstall will recognize this suffix and automatically create a trivial `setup.py` to wrap the single `.py` file as an egg.

In the case of a VCS checkout, you should also append `#egg=project-version` in order to identify for what package that checkout should be used. You can append `@REV` to the URL's path (before the fragment) to specify a revision. Additionally, you can also force the VCS being used by prepending the URL with a certain prefix. Currently available are:

- `svn+URL` for Subversion,
- `git+URL` for Git, and
- `hg+URL` for Mercurial

A more complete example would be:

```
``vcs+proto://host/path@revision#egg=project-version``
```

Be careful with the version. It should match the one inside the project files. If you want to disregard the version, you have to omit it both in the ``requires`` and in the URL's fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a temporary folder and run ``setup.py bdist_egg``.

The ``dependency_links`` option takes the form of a list of URL strings. For example, the below will cause EasyInstall to search the specified page for eggs or source distributions, if the package's dependencies aren't already installed::

```
setup(  
    ...  
  
    dependency_links = [  
        "http://peak.telecommunity.com/snapshots/"  
    ],  
)
```

.. _Declaring Extras:

Declaring "Extras" (optional features with their own dependencies)

Sometimes a project has "recommended" dependencies, that are not required for all uses of the project. For example, a project might offer optional PDF output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and setuptools allows you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their ``install_requires``.

For example, let's say that Project A offers optional PDF and reST support::

```
setup(  
    name="Project-A",  
    ...  
    extras_require = {  
        'PDF': ["ReportLab>=1.2", "RXP"],  
  
        'reST': ["docutils>=0.3"],  
    }  
)
```

)

As you can see, the ``extras_require`` argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry points`_ to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run::

```
setup(
    name="Project-A",
    ...
    entry_points = {
        'console_scripts': [
            'rst2pdf = project_a.tools.pdfgen [PDF]',
            'rst2html = project_a.tools.htmlgen',

            # more script entry points ...
        ],
    }
)
```

Projects can also use another project's extras when specifying dependencies. For example, if project B needs "project A" with PDF support installed, it might declare the dependency like this::

```
setup(
    name="Project-B",
    install_requires = ["Project-A[PDF]"],
    ...
)
```

This will cause ReportLab to be installed along with project A, if project B is installed -- even if project A was already installed. In this way, a project can encapsulate groups of optional "downstream dependencies" under a feature name, so that packages that depend on it don't have to know what the downstream dependencies are. If a later version of Project A builds in PDF support and no longer needs ReportLab, or if it ends up needing other dependencies besides ReportLab in order to provide PDF support, Project B's setup information does not need to change, but the right packages will still be installed if needed.

Note,

by the way, that if a project ends up not needing any other packages to support a feature, it should keep an empty requirements list for that feature in its `extras_require` argument, so that packages depending on that feature don't break (due to an invalid feature name). For example, if Project A above builds in PDF support and no longer needs ReportLab, it could change its setup to this::

```
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': [],
        'reST': ["docutils>=0.3"],
    }
)
```

so that Package B doesn't have to remove the `[PDF]` from its requirement specifier.

Including Data Files

=====

The distutils have traditionally allowed installation of "data files", which are placed in a platform-specific location. However, the most common use case for data files distributed with a package is for use *by* the package, usually by including the data files in the package directory.

Setuptools offers three ways to specify data files to be included in your packages. First, you can simply use the `include_package_data` keyword, e.g.:

```
from setuptools import setup, find_packages
setup(
    ...
    include_package_data = True
)
```

This tells setuptools to install any data files it finds in your packages. The data files must be under CVS or Subversion control, or else they must be specified via the distutils' `MANIFEST.in` file. (They can also be tracked by another revision control system, using an appropriate plugin. See the section below on `Adding Support for Other Revision Control Systems` for information on how to write such plugins.)

If the data files are not under version control, or are not in a supported version control system, or if you want finer-grained control over what files

are included (for example, if you have documentation files in your package directories and want to exclude them from installation), then you can also use the ``package_data`` keyword, e.g.::

```
from setuptools import setup, find_packages
setup(
    ...
    package_data = {
        # If any package contains *.txt or *.rst files, include them:
        '': ['*.txt', '*.rst'],
        # And include any *.msg files found in the 'hello' package, too:
        'hello': ['*.msg'],
    }
)
```

The ``package_data`` argument is a dictionary that maps from package names to lists of glob patterns. The globs may include subdirectory names, if the data files are contained in a subdirectory of the package. For example, if the package tree looks like this::

```
setup.py
src/
  mypkg/
    __init__.py
    mypkg.txt
  data/
    somefile.dat
    otherdata.dat
```

The setuptools setup file might look like this::

```
from setuptools import setup, find_packages
setup(
    ...
    packages = find_packages('src'), # include all packages under src
    package_dir = {'': 'src'},
    # tell distutils packages are under src

    package_data = {
        # If any package contains *.txt files, include them:
        '': ['*.txt'],
        # And include any *.dat files found in the 'data' subdirectory
        # of the 'mypkg' package, also:
        'mypkg': ['data/*.dat'],
    }
)
```

Notice that if you list patterns in `package_data` under the empty string, these patterns are used to find files in every package, even ones that also have their own patterns listed. Thus, in the above example, the `mypkg.txt` file gets included even though it's not listed in the patterns for `mypkg`.

Also notice that if you use paths, you *must* use a forward slash (`/`) as the path separator, even if you are on Windows. Setuptools automatically converts slashes to appropriate platform-specific separators at build time.

(Note: although the `package_data` argument was previously only available in `setuptools`, it was also added to the Python `distutils`

package as of

Python 2.4; there is some documentation for the feature `__` available on the python.org website. If using the setuptools-specific `include_package_data` argument, files specified by `package_data` will *not* be automatically added to the manifest unless they are tracked by a supported version control system, or are listed in the MANIFEST.in file.)

`__` <http://docs.python.org/dist/node11.html>

Sometimes, the `include_package_data` or `package_data` options alone aren't sufficient to precisely define what files you want included. For example, you may want to include package README files in your revision control system and source distributions, but exclude them from being installed. So, setuptools offers an `exclude_package_data` option as well, that allows you to do things like this::

```
from setuptools import setup, find_packages
setup(
    ...
    packages = find_packages('src'), # include all packages under src
    package_dir
    = {'src': ''}, # tell distutils packages are under src

    include_package_data = True, # include everything in source control

    # ...but exclude README.txt from all packages
    exclude_package_data = { '': ['README.txt'] },
)
```

The `exclude_package_data` option is a dictionary mapping package names to lists of wildcard patterns, just like the `package_data` option. And, just as with that option, a key of `''` will apply the given pattern(s) to all packages. However, any files that match these patterns will be *excluded* from installation, even if they were listed in `package_data` or were included as a result of using `include_package_data`.

In summary, the three options allow you to:

```include_package_data```

Accept all data files and directories matched by ```MANIFEST.in``` or found in source control.

```package_data```

Specify additional patterns to match files and directories that may or may not be matched by ```MANIFEST.in``` or found in source control.

```exclude_package_data```

Specify patterns for data files and directories that should *\*not\** be included when a package is installed, even if they would otherwise have been included due to the use of the preceding options.

NOTE: Due to the way the distutils build process works, a data file that you include in your project and then stop including may be "orphaned" in your project's build directories, requiring you to run ```setup.py clean --all``` to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run ```setup.py clean --all```.

#### Accessing Data Files at Runtime

-----

Typically, existing programs manipulate a package's ```__file__``` attribute in order to find the location of data files. However, this manipulation isn't compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files, you should use the Resource Management API of ```pkg_resources``` to access them. The ```pkg_resources``` module is distributed as part of `setuptools`, so if you're using `setuptools` to distribute your package, there is no reason not to use its resource management API. See also `Accessing Package Resources`_` for a quick example of converting code that uses ```__file__``` to use ```pkg_resources``` instead.

.. `_Resource Management API`: <http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management>

.. `_Accessing Package Resources`: <http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources>

#### Non-Package Data Files

-----

The ```distutils``` normally install general "data files" to a platform-specific

location (e.g. ```/usr/share```). This feature intended to be used for things like documentation, example configuration files, and the like. ```setuptools``` does not install these data files in a separate location, however. They are bundled inside the egg file or directory, alongside the Python modules and packages. The data files can also be accessed using the `Resource Management API_`, by specifying a ```Requirement``` instead of a package name::

```
from pkg_resources import Requirement, resource_filename
filename = resource_filename(Requirement.parse("MyProject"), "sample.conf")
```

The above code will obtain the filename of the "sample.conf" file in the data root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't actually install data files to some arbitrary location on a user's machine; this is a feature, not a bug. You can always include a script in your distribution that extracts and copies your the documentation or data files to a user-specified location, at their discretion. If you put related data files in a single directory,

you can use ```resource_filename()``` with the directory name to get a filesystem directory that then can be copied with the ```shutil``` module. (Even if your package is installed as a zipfile, calling ```resource_filename()``` on a directory will return an actual filesystem directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your data files or directories inside one of your packages, rather than using the distutils' approach. However, if you're updating an existing application, it may be simpler not to change the way it currently specifies these data files.)

#### Automatic Resource Extraction

-----

If you are using tools that expect your resources to be "real" files, or your project includes non-extension native libraries or other files that your C extensions expect to be able to access, you may need to list those files in the ```eager_resources``` argument to ```setup()```, so that the files will be extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared libraries *other* than distutils-built C extensions, and those shared libraries use file extensions other than ```.dll```, ```.so```, or ```.dylib```, which are the extensions that setuptools 0.6a8 and higher automatically detects as shared libraries and adds to the ```native_libs.txt``` file for you. Any shared libraries whose names do not end with one of those extensions should be listed

as ```eager_resources```, because they need to be present in the filesystem when the C extensions that link to them are used.

The ```pkg_resources``` runtime for compressed packages will automatically extract *\*all\** C extensions and ```eager_resources``` at the same time, whenever *\*any\** C extension or eager resource is requested via the ```resource_filename()``` API. (C extensions are imported using ```resource_filename()``` internally.) This ensures that C extensions will see all of the "real" files that they expect to see.

Note also that you can list directory resource names in ```eager_resources``` as well, in which case the directory's contents (including subdirectories) will be extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you don't! It's really intended to support projects with lots of non-Python dependencies and as a last resort for crufty projects that can't otherwise handle being compressed. If your package is pure Python, Python plus data files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of ```eager_resources``` being relevant to your project.

## Extensible Applications and Frameworks

=====

.. `_Entry Points`:

### Dynamic Discovery of Services and Plugins

-----

```setuptools```

supports creating libraries that "plug in" to extensible applications and frameworks, by letting you register "entry points" in your project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins that provide translation for various file types to the blog's output format. The framework might define an "entry point group" called ```blogtool.parsers```, and then allow plugins to register entry points for the file extensions they support.

This would allow people to create distributions that contain one or more parsers for different file types, and then the blogging tool would be able to find the parsers at runtime by looking up an entry point for the file extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it can register these as entry points in its own setup script, which means it doesn't have to special-case its built-in formats. They can just be treated the same as any other plugin's entry points would be.

If you're creating a project that plugs in to an existing application or framework, you'll need to know what entry points or entry point groups are defined by that application or framework. Then, you can register entry points in your setup script. Here are a few examples of ways you might register an `.rst` file parser entry point in the `blogtool.parsers` entry point group, for our hypothetical blogging tool::

```
setup(
    # ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)
```

```
setup(
    # ...
    entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
)
```

```
setup(
    # ...
    entry_points = """
    [blogtool.parsers]
    .rst = some.nested.module:SomeClass.some_classmethod [reST]
    """
    extras_require = dict(reST = "Docutils>=0.3.5")
)
```

The `entry_points` argument to `setup()` accepts either a string with `.ini`-style sections, or a dictionary mapping entry point group names to either strings or lists of strings containing entry point specifiers. An entry point specifier consists of a name and value, separated by an `=` sign. The value consists of a dotted module name, optionally followed by a `:` and a dotted identifier naming an object within the module. It can also include a bracketed list of "extras" that are required for the entry point to be used. When the invoking application or framework requests loading of an entry point, any requirements implied by the associated extras will be passed to `pkg_resources.require()`, so that an appropriate error message can be displayed if the needed package(s) are missing. (Of course, the invoking app or framework can ignore such errors if it wants to make an entry point optional if a requirement isn't installed.)

Defining Additional Metadata

Some extensible applications and frameworks may need to define their own kinds of metadata to include in eggs, which they can then access using the `pkg_resources` metadata APIs. Ordinarily, this is done by having plugin developers include additional files in their `ProjectName.egg-info` directory. However, since it can be tedious to create such files by hand, you may want to create a `distutils` extension that will create the necessary files from arguments to `setup()`, in much the same way that `setuptools` does for many of the `setup()` arguments it adds. See the section below on `Creating distutils Extensions` for more details, especially the subsection on `Adding new EGG-INFO Files`.

"Development Mode"

=====

Under normal circumstances, the `distutils` assume that you are going to build a distribution of your project, not use it in its "raw" or "unbuilt" form. If you were to use the `distutils` that way, you would have to rebuild and reinstall your project every time you made a change to it during development.

Another problem that sometimes comes up with the `distutils` is that you may need to do development on two related projects at the same time. You may need to put both projects' packages in the same directory to run them, but need to keep them separate for revision control purposes. How can you do this?

`Setuptools` allows you to deploy your projects for use in a common directory or staging area, but without copying any files. Thus, you can edit each project's code in its checkout directory, and only need to run build commands when you change a project's C extensions or similarly compiled files. You can even deploy a project into another project's checkout directory, if that's your preferred way of working (as opposed to using a common independent staging area or the `site-packages` directory).

To do this, use the `setup.py develop` command. It works very similarly to `setup.py install` or the `EasyInstall` tool, except that it doesn't actually install anything. Instead, it creates a special `.egg-link` file in the deployment directory, that links to your project's source code. And, if your deployment directory is Python's `site-packages` directory, it will also update the `easy-install.pth` file to include your project's source code, thereby making it available on `sys.path` for all programs using that Python

installation.

If you have enabled the `use_2to3` flag, then of course the `.egg-link` will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the `setup.py develop` will build Python 3 code under the `build` directory, and link there. This means that after doing code changes you will have to run `setup.py build` before these changes are picked up by your Python 3 installation.

In addition, the `develop` command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your `install_requires` packages are available on `sys.path`.

You can deploy the same project to multiple staging areas, e.g. if you have multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using `setup.py develop --uninstall`, specifying the desired staging area if it's not the default.

There are several options to control the precise behavior of the `develop` command; see the section on the `develop`_`` command below for more details.

Note that you can also apply `setuptools` commands to non-`setuptools` projects, using commands like this::

```
python -c "import setuptools; execfile('setup.py')" develop
```

That is, you can simply list the normal `setup` commands and options following the quoted part.

Distributing a `setuptools`-based project

=====

Using

`setuptools`... Without bundling it!

Your users might not have `setuptools` installed on their machines, or even if they do, it might not be the right version. Fixing this is easy; just download `ez_setup.py`_``, and put it in the same directory as your `setup.py`_`` script. (Be sure to add it to your revision control system, too.) Then add these two lines to the very top of your `setup` script, before the script imports anything from `setuptools`:


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

```
import ez_setup
ez_setup.use_setuptools()
```

That's it. The `ez_setup` module will automatically download a matching version of `setuptools` from PyPI, if it isn't present on the target system. Whenever you install an updated version of `setuptools`, you should also update your projects' `ez_setup.py` files, so that a matching version gets installed on the target machine(s).

By the way, `setuptools` supports the new PyPI "upload" command, so you can use `setup.py sdist upload` or `setup.py bdist_egg upload` to upload your source or egg distributions respectively. Your project's current version must be registered with PyPI first, of course; you can use `setup.py register` to do that. Or you can do it all in one step, e.g. `setup.py register sdist bdist_egg upload` will register the package, build source and egg distributions, and then upload them both to PyPI, where they'll be easily found by other projects that depend on them.

(By the way, if you need to distribute a specific version of `setuptools`, you can specify the exact version and base download URL as parameters to the `use_setuptools()` function. See the function's docstring for details.)

What Your Users Should Know

In general, a `setuptools`-based project looks just like any `distutils`-based project -- as long as your users have an internet connection and are installing to `site-packages`, that is. But for some users, these conditions don't apply, and they may become frustrated if this is their first encounter with a `setuptools`-based project. To keep these users happy, you should review the following topics in your project's installation instructions, if they are relevant to your project and your target audience isn't already familiar with `setuptools` and `easy_install`.

Network Access

If your project is using `ez_setup`, you should inform users of the need to either have network access, or to preinstall the correct version of `setuptools` using the `EasyInstall` installation instructions. Those instructions also have tips for dealing with firewalls as well as how to manually download and install `setuptools`.

Custom Installation Locations

You should inform your users that if they are installing your project to somewhere other than the main `site-packages` directory, they should first install `setuptools` using the instructions for `Custom Installation Locations`, before installing your project.

Your Project's Dependencies

If your project depends on other projects that may need to be downloaded from PyPI or elsewhere, you should list them in your installation instructions, or tell users how to find out what they are. While most users will not need this information, any users who don't have unrestricted internet access may have to find, download, and install the other projects manually. (Note, however, that they must still install those projects using `easy_install`, or your project will not know they are installed, and your setup script will try to download them again.)

If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited network access can manually download all the eggs to a single directory, then use the `-f` option of `easy_install` to specify the directory to find eggs in. Users who have full network access can just use `-f` with the URL of your download page, and `easy_install` will find all the needed eggs using your links directly. This is also useful when your target audience isn't able to compile packages (e.g. most Windows users) and your package or some of its dependencies include C code.

Subversion or CVS Users and Co-Developers

Users and co-developers who are tracking your in-development code using CVS, Subversion, or some other revision control system should probably read this manual's sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use `setup.py develop` when tracking your in-development code, you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to run `setup.py clean --all` and delete any obsolete `.pyc` or `.pyo`. (This tip applies to the distutils in general, not just `setuptools`, but not everybody knows about them; be kind to your users by spelling out your project's best practices rather than leaving them guessing.)

Creating System Packages

Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn't `easy_install`! Setuptools currently supports `bdist_rpm`, `bdist_wininst`, and `bdist_dumb` formats for system packaging. If a user has a locally-installed "bdist" packaging tool that internally uses the `distutils` `install` command, it should be able to work with `setuptools`. Some examples of "bdist" formats that this should work with include the `bdist_nsi` and `bdist_msi` formats for Windows.

However, packaging tools that build binary distributions by running `setup.py install` on the command line or as a subprocess will require modification to work with setuptools. They should use the `--single-version-externally-managed` option to the `install` command, combined with the standard `--root` or `--record` options. See the `install` command documentation below for more details. The `bdist_deb` command is an example of a command that currently requires this kind of patching to work with setuptools.

If you or your users have a problem building a usable system package for your project, please report the problem via the mailing list so that either the "bdist" tool in question or setuptools can be modified to resolve the issue.

Setting the `zip_safe` flag

For maximum performance, Python packages are best installed as zip files. Not all packages, however, are capable of running in compressed form, because they may expect to be able to access either source code or data files as normal operating system files. So, `setuptools` can install your project as a zipfile or a directory, and its default choice is determined by the project's `zip_safe` flag.

You can pass a True or False value for the `zip_safe` argument to the `setup()` function, or you can omit it. If you omit it, the `bdist_egg` command will analyze your project's contents to see if it can detect any conditions that would prevent it from working in a zipfile. It will output notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the project unsafe if it contains any C extensions or datafiles whatsoever. This does *not* mean that the project can't or won't work as a zipfile! It just means that the `bdist_egg` authors aren't yet comfortable asserting that the project *will* work. If the project contains no C or data files, and does

no `__file__` or `__path__` introspection or source code manipulation, then there is an extremely solid chance the project will work when installed as a zipfile. (And if the project uses `pkg_resources` for all its data file access, then C extensions and other data files shouldn't be a problem at all. See the ``Accessing Data Files at Runtime`_` section above for more information.)

However, if `bdist_egg` can't be *sure* that your package will work, but you've checked over all the warnings it issued, and you are either satisfied it *will* work (or if you want to try it for yourself), then you should set `zip_safe` to `True` in your `setup()` call. If it turns out that it doesn't work, you can always change it to `False`, which will force `setuptools` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using EasyInstall to install your package. And, if you want to override for testing purposes, you can just run `setup.py easy_install --zip-ok .` or `setup.py easy_install --always-unzip .` in your project directory. to install the package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become more satisfied with the robustness of the `pkg_resources` runtime, the "zip safety" analysis may become less conservative. However, we strongly recommend that you determine for yourself whether your project functions correctly when installed as a zipfile, correct any problems if you can, and then make an explicit declaration of `True` or `False` for the `zip_safe` flag, so that it will not be necessary for `bdist_egg` or `EasyInstall` to try to guess whether your project can work as a zipfile.

Namespace Packages

Sometimes, a large package is more useful if distributed as a collection of smaller eggs. However, Python does not normally allow the contents of a package to be retrieved from more than one location. "Namespace packages" are a solution for this problem. When you declare a package to be a namespace package, it means that the package has no meaningful contents in its `__init__.py`, and that it is merely a container for modules and subpackages.

The `pkg_resources` runtime will then automatically ensure that the contents of namespace packages that are spread over multiple eggs or directories are combined into a single "virtual" package.

The `namespace_packages` argument to `setup()` lets you declare your project's namespace packages, so that they will be included in your project's metadata. The argument should list the namespace packages that the egg

participates in. For example, the ZopeInterface project might do this::

```
setup(  
    # ...  
    namespace_packages = ['zope']  
)
```

because it contains a ``zope.interface`` package that lives in the ``zope`` namespace package. Similarly, a project for a standalone ``zope.publisher`` would also declare the ``zope`` namespace package. When these projects are installed and used, Python will see them both as part of a "virtual" ``zope`` package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's ``zope.app`` package is a namespace package, and in the future PEAK's ``peak.util`` package will be too.

Note, by the way, that your project's source tree must include the namespace packages' ``__init__.py`` files (and the ``__init__.py`` of any parent packages), in a normal Python package layout. These ``__init__.py`` files *must* contain the line::

```
__import__('pkg_resources').declare_namespace(__name__)
```

This code ensures that the namespace package machinery is operating and that the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's ``__init__.py``. Even though it may appear to work during development, or when projects are installed as ``.egg`` files, it will not work when the projects are installed using "system" packaging tools -- in such cases the ``__init__.py`` files will not be installed, let alone executed.

You must include the ``declare_namespace()`` line in the ``__init__.py`` of *every* project that has contents for the namespace package in question, in order to ensure that the namespace will be declared regardless of which project's copy of ``__init__.py`` is loaded first. If the first loaded ``__init__.py`` doesn't declare it, it will never *be* declared, because no other copies will ever be loaded!

TRANSITIONAL NOTE

~~~~~

Setuptools automatically calls ``declare\_namespace()`` for you at runtime, but future versions may *not*. This is because the automatic declaration

feature has some negative side effects, such as needing to import all namespace packages

during the initialization of the `pkg_resources` runtime, and also the need for `pkg_resources` to be explicitly imported before any namespace packages work at all. In some future releases, you'll be responsible for including your own declaration lines, and the automatic declaration feature will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, `setuptools` will warn you about missing `declare_namespace()` calls in your `__init__.py` files, and you should correct these as soon as possible before the compatibility support is removed.

Namespace packages without declaration lines will not work correctly once a user has upgraded to a later version, so it's important that you make this change now in order to avoid having your code break in the field. Our apologies for the inconvenience, and thank you for your patience.

#### Tagging and "Daily Build" or "Snapshot" Releases

-----

##### When

a set of related projects are under development, it may be important to track finer-grained version increments than you would normally use for e.g. "stable" releases. While stable releases might be measured in dotted numbers with alpha/beta/etc. status codes, development versions of a project often need to be tracked by revision or build number or even build date. This is especially true when projects in development need to refer to one another, and therefore may literally need an up-to-the-minute version of something!

To support these scenarios, `setuptools` allows you to "tag" your source and egg distributions by adding one or more of the following to the project's "official" version identifier:

- \* A manually-specified pre-release tag, such as "build" or "dev", or a manually-specified post-release tag, such as a build or revision number (`--tag-build=STRING, -bSTRING`)
- \* A "last-modified revision number" string generated automatically from Subversion's metadata (assuming your project is being built from a Subversion "working copy") (`--tag-svn-revision, -r`)
- \* An 8-character representation of the build date (`--tag-date, -d`), as a postrelease tag

You can add these tags by adding `egg_info` and the desired options to

the command line ahead of the ```sdist``` or ```bdist``` commands that you want to generate a daily build or snapshot for. See the section below on the ```egg_info``` command for more details.

(Also, before you release your project, be sure to see the section above on ```Specifying Your Project's Version``` for more information about how pre- and post-release tags affect how `setuptools` and `EasyInstall` interpret version numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a downloadable location or are copying them to a distribution server, you should probably

also check out the ```rotate``` command, which lets you automatically delete all but the `N` most-recently-modified distributions matching a glob pattern. So, you can use a command line like::

```
setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3
```

to build an egg whose version info includes `'DEV-rNNNN'` (where `NNNN` is the most recent Subversion revision that affected the source tree), and then delete any egg files from the distribution directory except for the three that were built most recently.

If you have to manage automated builds for multiple packages, each with different tagging and rotation policies, you may also want to check out the ```alias``` command, which would let each package define an alias like ```daily``` that would perform the necessary tag, build, and rotate commands. Then, a simpler script or cron job could just run ```setup.py daily``` in each project directory. (And, you could also define sitewide or per-user default versions of the ```daily``` alias, so that projects that didn't define their own would use the appropriate defaults.)

## Generating Source Distributions

-----

```setuptools``` enhances the `distutils`' default algorithm for source file selection, so that all files managed by CVS or Subversion in your project tree are included in any source distribution you build. This is a big improvement over having to manually write a ```MANIFEST.in``` file and try to keep it in sync with your project. So, if you are using CVS or Subversion, and your source distributions only need to include files that you're tracking in revision control, don't create a ```MANIFEST.in``` file for your project. (And, if you already have one, you might consider deleting it the next time you would otherwise have to change it.)

(NOTE: other revision control systems besides CVS and Subversion can be supported using plugins; see the section below on `Adding Support for Other Revision Control Systems`\_ for information on how to write such plugins.)

If

you need to include automatically generated files, or files that are kept in an unsupported revision control system, you'll need to create a ``MANIFEST.in`` file to specify any files that the default file location algorithm doesn't catch. See the distutils documentation for more information on the format of the ``MANIFEST.in`` file.

But, be sure to ignore any part of the distutils documentation that deals with ``MANIFEST`` or how it's generated from ``MANIFEST.in``; setuptools shields you from these issues and doesn't work the same way in any case. Unlike the distutils, setuptools regenerates the source distribution manifest file every time you build a source distribution, and it builds it inside the project's ``.egg-info`` directory, out of the way of your main project directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools' approach to determining the contents of a source distribution is so much simpler, its ``sdist`` command omits nearly all of the options that the distutils' more complex ``sdist`` process requires. For all practical purposes, you'll probably use only the ``--formats`` option, if you use any option at all.

(By the way, if you're using some other revision control system, you might consider creating and publishing a `revision control plugin for setuptools`\_.)

.. \_revision control plugin for setuptools: `Adding Support for Other Revision Control Systems`\_

Making your package available for EasyInstall

-----  
If you use the ``register`` command (`setup.py register`) to register your package with PyPI, that's most of the battle right there. (See the `docs for the register command`\_ for more details.)

.. \_docs for the register command: <http://docs.python.org/dist/package-index.html>

If you also use the `upload`\_ command to upload actual distributions of your package, that's even better, because EasyInstall will be able to find and download them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to



PyPI, and just want your existing distributions (or perhaps a Subversion checkout) to be used instead.

So here's what you need to do before running the `register` command. There are three `setup()` arguments that affect EasyInstall:

`url` and `download_url`

These become links on your project's PyPI page. EasyInstall will examine them to see if they link to a package ("primary links"), or whether they are HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the page for primary links

`long_description`

EasyInstall will check any URLs contained in this argument to see if they are primary links.

A URL is considered a "primary link" if it is a link to a .tar.gz, .tgz, .zip, .egg, .egg.zip, .tar.bz2, or .exe file, or if it has an `#egg=project` or `#egg=project-version` fragment identifier attached to it. EasyInstall attempts to determine a project name and optional version number from the text of a primary link *without* downloading it. When it has found all the primary links, EasyInstall will select the best match based on requested version, platform compatibility, and other criteria.

So, if your `url` or `download_url` point either directly to a downloadable source distribution, or to HTML page(s) that have direct links to such, then EasyInstall will be able to locate downloads automatically. If you want to make Subversion checkouts available, then you should create links with either `#egg=project` or `#egg=project-version` added to the URL. You should replace `project` and `version` with the values they would have in an egg filename. (Be sure to actually generate an egg and then use the initial part of the filename, rather than trying to guess what the escaped form of the project name and version number will be.)

Note that Subversion checkout links are of lower precedence than other kinds of distributions, so EasyInstall will not select a Subversion checkout for downloading unless it has a version included in the `#egg=` suffix, and it's a higher version than EasyInstall has seen in any other links for your project.

As a result, it's a common practice to use mark checkout URLs with a version of "dev" (i.e., `#egg=projectname-dev`), so that users can do something like this::

```
easy_install --editable projectname==dev
```

in order to check out the in-development version of ``projectname``.

## Managing "Continuous Releases" Using Subversion

-----

If you expect your users to track in-development versions of your project via Subversion, there are a few additional steps you should take to ensure that things work smoothly with EasyInstall. First, you should add the following to your project's ``setup.cfg`` file:

```
.. code-block:: ini
```

```
[egg_info]
tag_build = .dev
tag_svn_revision = 1
```

This will tell ``setuptools`` to generate package version numbers like ``1.0a1.dev-r1263``, which will be considered to be an *older* release than ``1.0a1``. Thus, when you actually release ``1.0a1``, the entire egg infrastructure (including ``setuptools``, ``pkg\_resources`` and EasyInstall) will know that ``1.0a1`` supersedes any interim snapshots from Subversion, and handle upgrades accordingly.

(Note: the project version number you specify in ``setup.py`` should always be the *next* version of your software, not the last released version. Alternately, you can leave out the ``tag\_build=.dev``, and always use the *last* release as a version number, so that your post-1.0 builds are labelled ``1.0-r1263``, indicating a post-1.0 patchlevel. Most projects so far, however, seem to prefer to think of their project as being a future version still under development, rather than a past version being patched. It is of course possible for a single project to have both situations, using post-release numbering on release branches, and pre-release numbering on the trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to their checkout URL (as described in the previous section) with an ``#egg=projectname-dev`` suffix. This allows users to request EasyInstall to download ``projectname==dev`` in order to get the latest in-development code. Note that if your project depends on such in-progress code, you may wish to specify your ``install\_requires`` (or other requirements) to include ``==dev``, e.g.:

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

```
install_requires = ["OtherProject>=0.2a1.dev-r143,==dev"]
```

The above example says, "I really want at least this particular development revision number, but feel free to follow and use an ```#egg=OtherProject-dev``` link if you find one". This avoids the need to have actual source or binary distribution snapshots of in-development code available, just to be able to depend on the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags as described in this section, it's a good idea to run ```setup.py develop``` after each Subversion checkin or update, because your project's version number will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the ```develop``` command will take care of fetching the updated dependencies, building changed extensions, etc. Be sure to also remind any of your users who check out your project from Subversion that they need to run ```setup.py develop``` after every update in order to keep their checkout completely in sync.

#### Making "Official" (Non-Snapshot) Releases

~~~~~

When you make an official release, creating source or binary distributions, you will need to override the tag settings from ```setup.cfg```, so that you don't end up registering versions like ```foobar-0.7a1.dev-r34832```.

This is easy to do if you are developing on the trunk and using tags or branches for your releases - just make the change to ```setup.cfg``` after branching or tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the default version options on the command line, using something like::

```
python setup.py egg_info -RDb "" sdist bdist_egg register upload
```

The first part of this command (```egg_info -RDb ""```) will override the configured tag information, before creating source and binary eggs, registering the project with PyPI, and uploading the files. Thus, these commands will use the plain version from your ```setup.py```, without adding the Subversion revision number or build designation string.

Of course, if you will be doing this a lot, you may wish to create a personal alias for this operation, e.g.::

```
python setup.py alias -u release egg_info -RDb ""
```

You can then use

it like this::

```
python setup.py release sdist bdist_egg register upload
```

Or of course you can create more elaborate aliases that do all of the above. See the sections below on the ``egg_info`_` and ``alias`_` commands for more ideas.

Distributing Extensions compiled with Pyrex

``setuptools`` includes transparent support for building Pyrex extensions, as long as you define your extensions using ``setuptools.Extension``, **not** ``distutils.Extension``. You must also not import anything from Pyrex in your setup script.

If you follow these rules, you can safely list ``.pyx`` files as the source of your ``Extension`` objects in the setup script. ``setuptools`` will detect at build time whether Pyrex is installed or not. If it is, then ``setuptools`` will use it. If not, then ``setuptools`` will silently change the ``Extension`` objects to refer to the ``.c`` counterparts of the ``.pyx`` files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C code generated by Pyrex, as well as your original ``.pyx`` files. This means that you will probably want to include current ``.c`` files in your revision control system, rebuilding them whenever you check changes in for the ``.pyx`` source files. This will ensure that people tracking your project in CVS or Subversion will be able to build it even if they don't have Pyrex installed, and that your source releases will be similarly usable with or without Pyrex.

----- Command Reference -----

.. `_alias``:

``alias`` - Define shortcuts for commonly used commands

=====

Sometimes, you need to use the same commands over and over, but you can't necessarily set them as defaults. For example, if you produce both development snapshot releases and "stable" releases of a project, you may want to put the distributions in different places,

or use different ``egg_info`` tagging options, etc. In these cases, it doesn't make sense to set the options in a distutils configuration file, because the values of the options changed based on what you're trying to do.

Setuptools therefore allows you to define "aliases" - shortcut names for an arbitrary string of commands and options, using ``setup.py alias aliasname expansion``, where aliasname is the name of the new alias, and the remainder of the command line supplies its expansion. For example, this command defines a sitewide alias called "daily", that sets various ``egg_info`` tagging options::

```
setup.py alias --global-config daily egg_info --tag-svn-revision \  
--tag-build=development
```

Once the alias is defined, it can then be used with other setup commands, e.g.::

```
setup.py daily bdist_egg # generate a daily-build .egg file  
setup.py daily sdist # generate a daily-build source distro  
setup.py daily sdist bdist_egg # generate both
```

The

above commands are interpreted as if the word ``daily`` were replaced with ``egg_info --tag-svn-revision --tag-build=development``.

Note that setuptools will expand each alias *at most once* in a given command line. This serves two purposes. First, if you accidentally create an alias loop, it will have no effect; you'll instead get an error message about an unknown command. Second, it allows you to define an alias for a command, that uses that command. For example, this (project-local) alias::

```
setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg
```

redefines the ``bdist_egg`` command so that it always runs the ``rotate`` command afterwards to delete all but the newest egg file. It doesn't loop indefinitely on ``bdist_egg`` because the alias is only expanded once when used.

You can remove a defined alias with the ``--remove`` (or ``-r``) option, e.g.::

```
setup.py alias --global-config --remove daily
```

would delete the "daily" alias we defined above.

Aliases can be

defined on a project-specific, per-user, or sitewide basis. The default is to define or remove a project-specific alias, but you can use any of

the `configuration file options` (listed under the `saveopts` command, below) to determine which distutils configuration file an aliases will be added to (or removed from).

Note that if you omit the "expansion" argument to the `alias` command, you'll get output showing that alias' current definition (and what configuration file it's defined in). If you omit the alias name as well, you'll get a listing of all current aliases along with their configuration file locations.

`bdist_egg` - Create a Python Egg for the project

=====

This command generates a Python Egg (`.egg` file) for the project. Python Eggs are the preferred binary distribution format for EasyInstall, because they are cross-platform (for "pure" packages), directly importable, and contain project metadata including scripts and information about the project's dependencies. They can be simply downloaded and added to `sys.path` directly, or they can be placed in a directory on `sys.path` and then automatically discovered by the egg runtime system.

This command runs the `egg_info` command (if it hasn't already run) to update the project's metadata (`egg-info`) directory. If you have added any extra metadata files to the `egg-info` directory, those files will be included in the new egg file's metadata directory, for use by the egg runtime system or by any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just use `bdist_egg` and you're done. But there are a few options that may be occasionally useful:

`--dist-dir=DIR, -d DIR`

Set the directory where the `.egg` file will be placed. If you don't supply this, then the `--dist-dir` setting of the `bdist` command will be used, which is usually a directory named `dist` in the project directory.

`--plat-name=PLATFORM, -p PLATFORM`

Set the platform name string that will be embedded in the egg's filename (assuming the egg contains C extensions). This can be used to override the distutils default platform name with something more meaningful. Keep in mind, however, that the egg runtime system expects to see eggs with distutils platform names, so it may ignore or reject eggs with non-standard platform names. Similarly, the EasyInstall program may ignore them when searching web pages for download links. However, if you are

cross-compiling or doing some other unusual things, you might find a use for this option.

`--exclude-source-files`

Don't include any modules' `.py` files in the egg, just compiled Python, C, and data files. (Note that this doesn't affect any `.py` files in the EGG-INFO directory or its subdirectories, since for example there may be scripts with a `.py` extension which must still be retained.) We don't recommend that you use this option except for packages that are being bundled for proprietary end-user applications, or for "embedded" scenarios where space is at an absolute premium. On the other hand, if your package is going to be installed and used in compressed form, you might as well exclude the source because Python's `traceback` module doesn't currently understand how to display zipped source code anyway, or how to deal with files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there because they were copied from similar `bdist` commands used as an example for creating this one. They may be useful for testing and debugging, however, which is why we kept them:

`--keep-temp, -k`

Keep the contents of the `--bdist-dir` tree around after creating the `.egg` file.

`--bdist-dir=DIR, -b DIR`

Set the temporary directory for creating the distribution. The entire contents of this directory are zipped to create the `.egg` file, after running various installation commands to copy the package's modules, data, and extensions here.

`--skip-build`

Skip doing any "build" commands; just go straight to the `install-and-compress` phases.

`.. _develop:`

`develop` - Deploy the project source in "Development Mode"

=====

This command allows you to deploy your project's source for use in one or more "staging areas" where it will be available for importing. This deployment is done in such a way that changes to the project source are immediately available in the staging area(s), without needing to run a build or install step after each change.

The `develop` command works by creating an `.egg-link` file (named for the project) in the given staging area. If the staging area is Python's `site-packages` directory, it also updates an `easy-install.pth` file so that the project is on `sys.path` by default for all programs run using that Python installation.

The `develop` command also installs wrapper scripts in the staging area (or a separate directory, as specified) that will ensure the project's dependencies are available on `sys.path` before running the project's source scripts. And, it ensures that any missing project dependencies are available in the staging area, by downloading and installing them if necessary.

Last, but not least, the `develop` command invokes the `build_ext -i` command to ensure any C extensions in the project have been built and are up-to-date, and the `egg_info` command to ensure the project's metadata is updated (so that the runtime and wrappers know what the project's dependencies are). If you make any changes to the project's setup script or C extensions, you should rerun the `develop` command against all relevant staging areas to keep the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning `develop`, but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the `develop` or `test` commands to keep the distribution updated.

Here are some of the options that the `develop` command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use `--exclude-scripts` (for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the `develop` command, if you need finer control over the installation options for dependencies.

`--uninstall, -u`

Un-deploy the current project. You may use the `--install-dir` or `-d` option to designate the staging area. The created `.egg-link` file will be removed, if present and it is still pointing to the project directory. The project directory will be removed from `easy-install.pth` if the staging area is Python's `site-packages` directory.

Note that this option currently does *not* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to activate a different version of the package. You can also avoid installing script wrappers in the first place, if you use the `--exclude-scripts` (aka `-x`) option when you run `develop` to deploy the project.

`--multi-version, -m`

"Multi-version" mode. Specifying this option prevents `develop` from adding an `easy-install.pth` entry for the project(s) being deployed, and if an entry for any version of a project already exists, the entry will be removed upon successful deployment. In multi-version mode, no specific version of

the package is available for importing, unless you use

`pkg_resources.require()` to put it on `sys.path`, or you are running a wrapper script generated by `setuptools` or `EasyInstall`. (In which case the wrapper script calls `require()` for you.)

Note that if you install to a directory other than `site-packages`, this option is automatically in effect, because `.pth` files can only be used in `site-packages` (at least in Python 2.3 and 2.4). So, if you use the `--install-dir` or `-d` option (or they are set via configuration file(s)) your project and its dependencies will be deployed in multi-version mode.

`--install-dir=DIR, -d DIR`

Set the installation directory (staging area). If this option is not directly specified on the command line or in a `distutils` configuration file, the `distutils` default installation location is used. Normally, this will be the `site-packages` directory, but if you are using `distutils` configuration files, setting things like `prefix` or `install_lib`, then those settings are taken into account when computing the default staging area.

`--script-dir=DIR, -s DIR`

Set the script installation directory. If you don't supply this option (via the command line or a configuration file), but you *have* supplied an `--install-dir` (via command line or config file), then this option defaults to the same directory, so that the scripts will be able to find their associated package installation. Otherwise, this setting defaults to the location where the `distutils` would normally install scripts, taking any `distutils` configuration file settings into account.

`--exclude-scripts, -x`

Don't deploy script wrappers. This is useful if you don't want to disturb existing versions of the scripts in the staging area.

`--always-copy, -a`

Copy all needed distributions to the staging area, even if they are already present

in another directory on `sys.path`. By default, if

a requirement can be met using a distribution that is already available in a directory on `sys.path`, it will not be copied to the staging area.

`--egg-path=DIR`

Force the generated ``.egg-link`` file to use a specified relative path to the source directory. This can be useful in circumstances where your installation directory is being shared by code running under multiple platforms (e.g. Mac and Windows) which have different absolute locations for the code under development, but the same *relative* locations with respect to the installation directory. If you use this option when installing, you must supply the same relative path when uninstalling.

In addition to the above options, the ``develop`` command also accepts all of the same options accepted by ``easy_install``. If you've configured any ``easy_install`` settings in your ``setup.cfg`` (or other distutils config files), the ``develop`` command will use them as defaults, unless you override them in a ``[develop]`` section or on the command line.

``easy_install`` - Find and install packages

=====

This command runs the `EasyInstall` tool `<easy_install.html>`_` for you. It is exactly equivalent to running the ``easy_install`` command. All command line arguments following this command are consumed and not processed further by the distutils, so this must be the last command listed on the command line. Please see the EasyInstall documentation for the options reference and usage examples. Normally, there is no reason to use this command via the command line, as you can just use ``easy_install`` directly. It's only listed here so that you know it's a distutils command, which means that you can:`

- * create command aliases that use it,
- * create distutils extensions that invoke it as a subcommand, and
- * configure options for it in your ``setup.cfg`` or other distutils config files.

.. `_egg_info`:

``egg_info`` - Create egg metadata and set build tags

=====

This command performs two operations: it updates a project's ``.egg-info`` metadata directory (used by the ``bdist_egg``, ``develop``, and ``test`` commands), and it allows you to temporarily change a project's version string, to support "daily builds" or "snapshot" releases. It is run automatically by the ``sdist``, ``bdist_egg``, ``develop``, ``register``, and ``test`` commands in order to update the project's metadata, but you can also specify it explicitly in order to temporarily change the project's version string while executing other commands. (It also generates the ``.egg-info/SOURCES.txt``

manifest file, which is used when you are building source distributions.)

In addition to writing the core egg metadata defined by `setuptools` and required by `pkg_resources`, this command can be extended to write other metadata files as well, by defining entry points in the `egg_info.writers` group. See the section on `Adding new EGG-INFO Files` below for more details. Note that using additional metadata writers may require you to include a `setup_requires` argument to `setup()` in order to ensure that the desired writers are available on `sys.path`.

Release Tagging Options

The following options can be used to modify the project's version string for all remaining commands on the setup command line. The options are processed in the order shown, so if you use more than one, the requested tags will be added in the following order:

`--tag-build=NAME, -b NAME`

Append NAME to the project's version string. Due to the way `setuptools` processes "pre-release" version suffixes beginning with the letters "a" through "e" (like "alpha", "beta", and "candidate"), you will usually want to use a tag like ".build" or ".dev", as this will cause the version number to be considered *lower* than the project's default version. (If you want to make the version number *higher* than the default version, you can always leave off `--tag-build` and then use one or both of the following options.)

If you have a default build tag set in your `setup.cfg`, you can suppress it on the command line using `-b ""` or `--tag-build=""` as an argument to the `egg_info` command.

`--tag-svn-revision, -r`

If the current directory is a Subversion checkout (i.e. has a `.svn` subdirectory, this appends a string of the form "-rNNNN" to the project's version string, where NNNN is the revision number of the most recent modification to the current directory, as obtained from the `svn info` command.

If the current directory is not a Subversion checkout, the command will look for a `PKG-INFO` file instead, and try to find the revision number from that, by looking for a "-rNNNN" string at the end of the version number. (This is so

that building a package from a source distribution of a Subversion snapshot will produce a binary with the correct version

number.)

If there is no ``PKG-INFO`` file, or the version number contained therein does not end with ``-r`` and a number, then ``-r0`` is used.

``--no-svn-revision, -R``

Don't include the Subversion revision in the version number. This option is included so you can override a default setting put in ``setup.cfg``.

``--tag-date, -d``

Add a date stamp of the form "-YYYYMMDD" (e.g. "-20050528") to the project's version number.

``--no-date, -D``

Don't include a date stamp in the version number. This option is included so you can override a default setting in ``setup.cfg``.

(Note: Because these options modify the version number used for source and binary distributions of your project, you should first make sure that you know how the resulting version numbers will be interpreted by automated tools like EasyInstall. See the section above on `Specifying Your Project's Version`_ for an explanation of pre- and post-release tags, as well as tips on how to choose and verify a versioning scheme for your your project.)

For advanced uses, there is one other option that can be set, to change the location of the project's ``.egg-info`` directory. Commands that need to find the project's source directory or metadata should get it from this setting:

Other ``egg_info`` Options

``--egg-base=SOURCEDIR, -e SOURCEDIR``

Specify the directory that should contain the .egg-info directory. This should normally be the root of your project's source tree (which is not necessarily the same as your project directory; some projects use a ``src`` or ``lib`` subdirectory as the source root). You should not normally need to specify this directory, as it is normally determined from the ``package_dir`` argument to the ``setup()`` function, if any. If there is no ``package_dir`` set, this option defaults to the current directory.

``egg_info`` Examples

Creating a dated "nightly build" snapshot egg::

```
python setup.py egg_info --tag-date --tag-build=DEV bdist_egg
```

Creating and uploading a release with no version tags, even if some default tags are specified in ``setup.cfg``::

```
python setup.py egg_info -RDb "" sdist bdist_egg register upload
```

(Notice that ``egg_info`` must always appear on the command line *before* any commands that you want the version changes to apply to.)

.. _install command:

```
``install`` - Run ``easy_install`` or old-style installation
```

=====

The `setuptools` `install` command is basically a shortcut to run the `easy_install` command on the current project. However, for convenience in creating "system packages" of `setuptools`-based projects, you can also use this option:

```
``--single-version-externally-managed``
```

This boolean option tells the `install` command to perform an "old style" installation, with the addition of an `.egg-info` directory so that the installed project will still have its metadata available and operate normally. If you use this option, you *must* also specify the `--root` or `--record` options (or both), because otherwise you will have no way to identify and remove the installed files.

This option is automatically in effect when `install` is invoked by another `distutils` command, so that commands like `bdist_wininst` and `bdist_rpm` will create system packages of eggs. It is also automatically in effect if you specify the `--root` option.

```
``install_egg_info`` - Install an ``.egg-info`` directory in ``site-packages``
```

=====

`Setuptools` runs this command as part of `install` operations that use the `--single-version-externally-managed` options. You should not invoke it directly; it is documented

here for completeness and so that `distutils` extensions such as system package builders can make use of it. This command has only one option:

`--install-dir=DIR, -d DIR`

The parent directory where the `.egg-info` directory will be placed. Defaults to the same as the `--install-dir` option specified for the `install_lib` command, which is usually the system `site-packages` directory.

This command assumes that the `egg_info` command has been given valid options via the command line or `setup.cfg`, as it will invoke the `egg_info` command and use its options to locate the project's source `.egg-info` directory.

.. `_rotate`:

`rotate` - Delete outdated distribution files

=====

As you develop new versions of your project, your distribution (`dist`) directory will gradually fill up with older source and/or binary distribution files. The `rotate` command lets you automatically clean these up, keeping only the N most-recently modified files matching a given pattern.

`--match=PATTERNLIST, -m PATTERNLIST`

Comma-separated list of glob patterns to match. This option is *required*. The project name and `-*` is prepended to the supplied patterns, in order to match only distributions belonging to the current project (in case you have a shared distribution directory for multiple projects). Typically, you will use a glob pattern like `.zip` or `.egg` to match files of the specified type. Note that each supplied pattern is treated as a distinct group of files for purposes of selecting files to delete.

`--keep=COUNT, -k COUNT`

Number of matching distributions to keep. For each group of files identified by a pattern specified with the `--match` option, delete all but the COUNT most-recently-modified files in that group. This option is *required*.

`--dist-dir=DIR, -d DIR`

Directory where the distributions are. This defaults to the value of the `bdist` command's `--dist-dir` option, which will usually be the project's `dist` subdirectory.

Example 1: Delete all `.tar.gz` files from the distribution directory, except for the 3 most recently modified ones::

```
setup.py rotate --match=.tar.gz --keep=3
```

****Example 2****: Delete all Python 2.3 or Python 2.4 eggs from the distribution directory, except the most recently modified one for each Python version::

```
setup.py rotate --match=-py2.3*.egg,-py2.4*.egg --keep=1
```

.. `_saveopts`:

```saveopts``` - Save used options to a configuration file

=====

Finding and editing ```distutils``` configuration files can be a pain, especially since you also have to translate the configuration options from command-line form to the proper configuration file format. You can avoid these hassles by using the ```saveopts``` command. Just add it to the command line to save the options you used. For example, this command builds the project using the ```mingw32``` C compiler, then saves the `--compiler` setting as the default for future builds (even those run implicitly by the ```install``` command)::

```
setup.py build --compiler=mingw32 saveopts
```

The ```saveopts``` command saves all options for every command specified on the command line to the project's local ```setup.cfg``` file, unless you use one of the `configuration file options`_` to change where the options are saved. For example, this command does the same as above, but saves the compiler setting to the site-wide (global) `distutils` configuration::

```
setup.py build --compiler=mingw32 saveopts -g
```

Note that it doesn't matter where you place the ```saveopts``` command on the command line; it will still save all the options specified for all commands. For example, this is another valid way to spell the last example::

```
setup.py saveopts -g build --compiler=mingw32
```

Note, however, that all of the commands specified are always run, regardless of where ```saveopts``` is placed on the command line.

## Configuration File Options

-----

Normally, settings such as options and aliases are saved to the project's local ```setup.cfg``` file. But you can override this and save them to the global or per-user configuration files, or to a manually-specified filename.

`--global-config, -g`

Save settings to the global `distutils.cfg` file inside the `distutils` package directory. You must have write access to that directory to use this option. You also can't combine this option with `-u` or `-f`.

`--user-config, -u`

Save settings to the current user's `~/pydistutils.cfg` (POSIX) or `~/pydistutils.cfg` (Windows) file. You can't combine this option with `-g` or `-f`.

`--filename=FILENAME, -f FILENAME`

Save settings to the specified configuration file to use. You can't combine this option with `-g` or `-u`. Note that if you specify a non-standard filename, the `distutils` and `setuptools` will not use the file's contents. This option is mainly included for use in testing.

These options are used by other `setuptools` commands that modify configuration files, such as the `alias` and `setopt` commands.

.. `_setopt`:

`setopt` - Set a distutils or setuptools option in a config file

=====

This command is mainly for use by scripts, but it can also be used as a quick and dirty way to change a distutils configuration option without having to remember what file the options are in and then open an editor.

**Example 1**. Set the default C compiler to `mingw32` (using long option names)::

```
setup.py setopt --command=build --option=compiler --set-value=mingw32
```

**Example 2**. Remove any setting for the distutils default package installation directory (short option names)::

```
setup.py setopt -c install -o install_lib -r
```

Options for the `setopt` command:

`--command=COMMAND,`

`-c COMMAND`

Command to set the option for. This option is required.



`--option=OPTION, -o OPTION`

The name of the option to set. This option is required.

`--set-value=VALUE, -s VALUE`

The value to set the option to. Not needed if `--r` or `--remove` is set.

`--remove, -r`

Remove (unset) the option, instead of setting it.

In addition to the above options, you may use any of the configuration file options `_` (listed under the `saveopts`_`` command, above) to determine which distutils configuration file the option will be added to (or removed from).

`.. _test:`

`test` - Build package and run a unittest suite`

=====

When doing test-driven development, or running automated builds that need testing before they are deployed for downloading or use, it's often useful to be able to run a project's unit tests without actually deploying the project anywhere, even using the `develop`` command. The `test`` command runs a project's unit tests without actually deploying it, by temporarily putting the project's source on `sys.path``, after first running `build_ext -i`` and `egg_info`` to ensure that any C extensions and project metadata are up-to-date.

To use this command, your project's tests must be wrapped in a `unittest`` test suite by either a function, a `TestCase`` class or method, or a module or package containing `TestCase`` classes. If the named suite is a module, and the module has an `additional_tests()`` function, it is called and the result (which must be a `unittest.TestSuite``) is added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite. (Note: if your project specifies a `test_loader``, the rules for processing the chosen `test_suite`` may differ; see the `test_loader`_`` documentation for more details.)

Note that many test systems including `doctest`` support wrapping their non-`unittest`` tests in `TestSuite`` objects. So, if you are using a test package that does not support this, we suggest you encourage its developers to implement test suite support, as this is a convenient and standard way to aggregate a collection of tests to be run under a common test harness.

By default, tests will be run in the "verbose" mode of the `unittest` package's text test runner, but you can get the "quiet" mode (just dots) if you supply the `-q` or `--quiet` option, either as a global option to the setup script (e.g. `setup.py -q test`) or as an option for the `test` command itself (e.g. `setup.py test -q`). There is one other option available:

`--test-suite=NAME, -s NAME`

Specify the test suite (or module, class, or method) to be run (e.g. `some_module.test_suite`). The default for this option can be set by giving a `test_suite` argument to the `setup()` function, e.g.:

```
setup(
 # ...
 test_suite
= "my_package.tests.test_all"
)
```

If you did not set a `test_suite` in your `setup()` call, and do not provide a `--test-suite` option, an error will occur.

.. `_upload`:

`_upload` - Upload source and/or egg distributions to PyPI

PyPI now supports uploading project files for redistribution; uploaded files are easily found by EasyInstall, even if you don't have download links on your project's home page.

Although Python 2.5 will support uploading all types of distributions to PyPI, `setuptools` only supports source distributions and eggs. (This is partly because PyPI's upload support is currently broken for various other file types.) To upload files, you must include the `_upload` command *after* the `sdist` or `bdist_egg` commands on the setup command line. For example::

```
setup.py bdist_egg upload # create an egg and upload it
setup.py sdist upload # create a source distro
and upload it
setup.py sdist bdist_egg upload # create and upload both
```

Note that to upload files for a project, the corresponding version must already be registered with PyPI, using the `distutils register` command. It's usually a good idea to include the `register` command at the start of the command line, so that any registration problems can be found and fixed before building and uploading the distributions, e.g.:

```
setup.py register sdist bdist_egg upload
```

This will update PyPI's listing for your project's current version.

Note, by the way, that the metadata in your `setup()` call determines what will be listed in PyPI for your package. Try to fill out as much of it as possible, as it will save you a lot of trouble manually adding and updating your PyPI listings. Just put it in `setup.py` and use the `register` command to keep PyPI up to date.

The `upload` command has a few options worth noting:

```
--sign, -s
```

Sign each uploaded file using GPG (GNU Privacy Guard). The `gpg` program must be available for execution on the system `PATH`.

```
--identity=NAME, -i NAME
```

Specify the identity or key name for GPG to use when signing. The value of this option will be passed through the `--local-user` option of the `gpg` program.

```
--show-response
```

Display the full response text from server; this is useful for debugging PyPI problems.

```
--repository=URL, -r URL
```

The URL of the repository to upload to. Defaults to <https://pypi.python.org/pypi> (i.e., the main PyPI installation).

```
.. _upload_docs:
```

```
upload_docs - Upload package documentation to PyPI
```

```
=====
```

PyPI now supports uploading project documentation to the dedicated URL <https://pythonhosted.org/<project>/>.

The `upload_docs` command will create the necessary zip file out of a documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version must already be registered with PyPI, using the distutils `register` command -- just like the `upload` command.

Assuming there is an `Example` project with documentation in the subdirectory `docs`, e.g.:

```

Example/
|-- example.py
|-- setup.cfg
|-- setup.py
|-- docs
| |-- build
| | |-- html
| | | |-- index.html
| | | |-- tips_tricks.html
| |-- conf.py
| |-- index.txt
| |-- tips_tricks.txt

```

You can simply pass the documentation directory path to the `upload_docs` command::

```
python setup.py upload_docs --upload-dir=docs/build/html
```

If no `--upload-dir` is given, `upload_docs` will attempt to run the `build_sphinx` command to generate uploadable documentation.

For the command to become available, Sphinx <<http://sphinx.pocoo.org/>> must be installed in the same environment as distribute.

As with other `setuptools`-based commands, you can define useful defaults in the `setup.cfg` of your Python project, e.g.:

```
.. code-block:: ini
```

```
[upload_docs]
upload-dir = docs/build/html
```

The `upload_docs` command has the following options:

```
--upload-dir
```

The directory to be uploaded to the repository.

```
--show-response
```

Display the full response text from server; this is useful for debugging PyPI problems.

```
--repository=URL, -r URL
```

The URL of the repository to upload to. Defaults to <https://pypi.python.org/pypi> (i.e., the main PyPI installation).

-----

## Extending and Reusing Setuptools

### Creating ``distutils`` Extensions

It can be hard to add new commands or setup arguments to the distutils. But the ``setuptools`` package makes it a bit easier, by allowing you to distribute a distutils extension as a separate project, and then have projects that need the extension just refer to it in their ``setup\_requires`` argument.

With ``setuptools``, your distutils extension projects can hook in new commands and ``setup()`` arguments just by defining "entry points". These are mappings from command or argument names to a specification of where to import a handler from. (See the section on `Dynamic Discovery of Services and Plugins`\_ above for some more background on entry points.)

### Adding Commands

You can add new ``setup`` commands by defining entry points in the ``distutils.commands`` group. For example, if you wanted to add a ``foo`` command, you might add something like this to your distutils extension project's setup script::

```
setup(
 # ...
 entry_points = {
 "distutils.commands": [
 "foo = mypackage.some_module:foo",
],
 },
)
```

(Assuming, of course, that the ``foo`` class in ``mypackage.some\_module`` is a ``setuptools.Command`` subclass.)

Once a project containing such entry points has been activated on ``sys.path``, (e.g. by running "install" or "develop" with a site-packages installation directory) the command(s) will be available to any ``setuptools``-based setup scripts. It is not necessary to use the ``--command-packages`` option or to monkeypatch the ``distutils.command`` package to install your commands; ``setuptools`` automatically adds a wrapper to the distutils to search for entry points in the active distributions on ``sys.path``. In fact, this is how setuptools' own commands are installed: the setuptools project's setup

script defines entry points for them!

## Adding ``setup()`` Arguments

-----

Sometimes, your commands may need additional arguments to the ``setup()`` call. You can enable this by defining entry points in the ``distutils.setup\_keywords`` group. For example, if you wanted a ``setup()`` argument called ``bar\_baz``, you might add something like this to your distutils extension project's setup script::

```
setup(
 # ...
 entry_points = {
 "distutils.commands":
 [
 "foo = mypackage.some_module:foo",
],
 "distutils.setup_keywords": [
 "bar_baz = mypackage.some_module:validate_bar_baz",
],
 },
)
```

The idea here is that the entry point defines a function that will be called to validate the ``setup()`` argument, if it's supplied. The ``Distribution`` object will have the initial value of the attribute set to ``None``, and the validation function will only be called if the ``setup()`` call sets it to a non-None value. Here's an example validation function::

```
def assert_bool(dist, attr, value):
 """Verify that value is True, False, 0, or 1"""
 if bool(value) != value:
 raise DistutilsSetupError(
 "%r must be a boolean value (got %r)" % (attr,value)
)
```

Your function should accept three arguments: the ``Distribution`` object, the attribute name, and the attribute value. It should raise a ``DistutilsSetupError`` (from the ``distutils.errors`` module) if the argument is invalid. Remember, your function will only be called with non-None values, and the default value of arguments defined this way is always None. So, your commands should always be prepared for the possibility that the attribute will be ``None`` when they access it later.

If more than one active distribution defines an entry point for the same

`setup()` argument, \*all\* of them will be called. This allows multiple distutils extensions to define a common argument, as long as they agree on what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch the distutils `Distribution` class in order to add your arguments; it is sufficient to define the entry points in your extension, as long as any setup script using your extension lists your project in its `setup_requires` argument.

#### Adding new EGG-INFO Files

-----

Some extensible applications or frameworks may want to allow third parties to develop plugins with application or framework-specific metadata included in the plugins' EGG-INFO directory, for easy access via the `pkg_resources` metadata API. The easiest way to allow this is to create a distutils extension to be used from the plugin projects' setup scripts (via `setup_requires`) that defines a new setup keyword, and then uses that data to write an EGG-INFO file when the `egg_info` command is run.

The `egg_info` command looks for extension points in an `egg_info.writers` group, and calls them to write the files. Here's a simple example of a distutils extension defining a setup argument `foo_bar`, which is a list of lines that will be written to `foo_bar.txt` in the EGG-INFO directory of any project that uses the argument::

```
setup(
 # ...
 entry_points = {
 "distutils.setup_keywords": [
 "foo_bar = setuptools.dist:assert_string_list",
],
 "egg_info.writers":
 [
 "foo_bar.txt = setuptools.command.egg_info:write_arg",
],
 },
)
```

This simple example makes use of two utility functions defined by `setuptools` for its own use: a routine to validate that a setup keyword is a sequence of strings, and another one that looks up a setup argument and writes it to a file. Here's what the writer utility looks like::

```
def write_arg(cmd, basename, filename):
```

```

argname = os.path.splitext(basename)[0]
value = getattr(cmd.distribution, argname, None)
if value is not None:
 value = '\n'.join(value)+'\n'
cmd.write_or_delete_file(argname, filename, value)

```

As you can see, ``egg\_info.writers`` entry points must be a function taking three arguments: a ``egg\_info`` command instance, the basename of the file to write (e.g. ``foo\_bar.txt``), and the actual full filename that should be written to.

In general, writer functions should honor the command object's ``dry\_run`` setting

when writing files, and use the ``distutils.log`` object to do any console output. The easiest way to conform to this requirement is to use the ``cmd`` object's ``write\_file()``, ``delete\_file()``, and ``write\_or\_delete\_file()`` methods exclusively for your file operations. See those methods' docstrings for more details.

## Adding Support for Other Revision Control Systems

-----

If you would like to create a plugin for ``setuptools`` to find files in other source control systems besides CVS and Subversion, you can do so by adding an entry point to the ``setuptools.file\_finders`` group. The entry point should be a function accepting a single directory name, and should yield all the filenames within that directory (and any subdirectories thereof) that are under revision control.

For example, if you were going to create a plugin for a revision control system called "foobar", you would write a function something like this:

```

.. code-block::
python

def find_files_for_foobar(dirname):
 # loop to yield paths that start with `dirname`

```

And you would register it in a setup script using something like this::

```

entry_points = {
 "setuptools.file_finders": [
 "foobar = my_foobar_module:find_files_for_foobar"
]
}

```

Then, anyone who wants to use your plugin can simply install it, and their



local `setuptools` installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that simply use the other source control system, or to specify the plugins in ```setup_requires```. When you create a source distribution with the ```sdist``` command, `setuptools` automatically records what files were found in the ```SOURCES.txt``` file. That way, recipients of source distributions don't need to have revision control at all. However, if someone is working on a package by checking out with that system, they will need the same plugin(s) that the original author is using.

A few important points for writing revision control file finders:

- \* Your finder function **MUST** return relative paths, created by appending to the passed-in directory name. Absolute paths are **NOT** allowed, nor are relative paths that reference a parent directory of the passed-in directory.
- \* Your finder function **MUST** accept an empty string as the directory name, meaning the current directory. You **MUST NOT** convert this to a dot; just yield relative paths. So, yielding a subdirectory named ```some/dir``` under the current directory should **NOT** be rendered as ```./some/dir``` or ```~/somewhere/some/dir```, but *\*always\** as simply ```some/dir```
- \* Your finder function **SHOULD NOT** raise any errors, and **SHOULD** deal gracefully with the absence of needed programs (i.e., ones belonging to the revision control system itself). It *\*may\**, however, use ```distutils.log.warn()``` to inform the user of the missing program(s).

Subclassing ```Command```

-----

Sorry,  
this section isn't written yet, and neither is a lot of what's below this point, except for the change log. You might want to `subscribe to changes in this page <setuptools?action=subscribe>`\_ to see when new documentation is added or updated.

XXX

Reusing ```setuptools``` Code

=====

```ez_setup```

XXX

``setuptools.archive_util``

XXX

``setuptools.sandbox``

XXX

``setuptools.package_index``

XXX

Mailing List and Bug Tracker

=====

Please use the `distutils-sig mailing list`_ for questions and discussion about setuptools, and the `setuptools bug tracker`_ ONLY for issues you have confirmed via the list are actual bugs, and which you have reduced to a minimal set of steps to reproduce.

- .. _distutils-sig mailing list: <http://mail.python.org/pipermail/distutils-sig/>
- .. _setuptools bug tracker: <https://bitbucket.org/pypa/setuptools/>

Found

in path(s):

* /opt/cola/permits/174431683_1695325757.7531395/0/setuptools-18-2-tar-gz/setuptools-18.2/docs/setuptools.txt

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

Metadata-Version: 1.1

Name: setuptools

Version: 18.2

Summary: Easily download, build, install, upgrade, and uninstall Python packages

Home-page: <https://bitbucket.org/pypa/setuptools>

Author: Python Packaging Authority

Author-email: distutils-sig@python.org

License: PSF or ZPL

Description: =====

Installing and Using Setuptools

=====

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

`<https://pythonhosted.org/setuptools/history.html>`_.`

Installation Instructions

The recommended way to bootstrap setuptools on any system is to download `ez_setup.py`_`` and run it using the target Python environment. Different operating systems have different recommended techniques to accomplish this basic routine, so below are some examples to get you started.

Setuptools requires Python 2.6 or later. To install setuptools on Python 2.4 or Python 2.5, use the `bootstrap`_`` script for Setuptools 1.x `<https://bitbucket.org/pypa/setuptools/raw/bootstrap-py24/ez_setup.py>`_.`

The link provided to `ez_setup.py`_`` is a bookmark to bootstrap script for the latest known stable release.

.. `_ez_setup.py`_``: `https://bootstrap.pypa.io/ez_setup.py`_``

Windows (Powershell 3 or later)
=====

For best results, uninstall previous versions FIRST (see `Uninstalling`_``).

Using Windows 8 (which includes PowerShell 3) or earlier versions of Windows with PowerShell 3 installed, it's possible to install with one simple Powershell command. Start up Powershell and paste this command::

```
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python -
```

You must start the Powershell with Administrative privileges or you may choose to install a user-local installation::

```
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python - --user
```

If you have Python 3.3 or later, you can use the `py`_`` command to install to different Python versions. For example, to install to Python 3.3 if you have Python 2.7 installed::

```
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | py -3 -
```

The recommended way to install setuptools on Windows is to download `ez_setup.py`_`` and run it. The script will download the appropriate distribution file and install it for you.

Once installation is complete, you will find an `easy_install` ``` program in your Python `Scripts` ``` subdirectory. For simple invocation and best results, add this directory to your `PATH` ``` environment variable, if it is not already present. If you did a user-local install, the `Scripts` ``` subdirectory is `$env:APPDATA\Python\Scripts` ```.

Windows (simplified)

=====

For Windows without PowerShell 3 or for installation without a command-line, download `ez_setup.py`_`` using your preferred web browser or other technique and "run" that file.

Unix (wget)

=====

Most Linux distributions come with wget.

Download `ez_setup.py`_`` and run it using the target Python version. The script will download the appropriate version and install it for you::

```
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python
```

Note that you may need to invoke the command with superuser privileges to install to the system Python::

```
> wget https://bootstrap.pypa.io/ez_setup.py
-O - | sudo python
```

Alternatively, Setuptools may be installed to a user-local path::

```
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python --user
```

Note that on some older systems (noted on Debian 6 and CentOS 5 installations), `wget` ``` may refuse to download `ez_setup.py`_``, complaining that the certificate common name `*.c.ssl.fastly.net` ``` does not match the host name `bootstrap.pypa.io` ```. In addition, the `ez_setup.py`_`` script may then encounter similar problems using

`wget` ``` internally to download `setuptools-x.y.zip`_``, complaining that the certificate common name of `www.python.org` ``` does not match the

host name `python.org` ```. Those are known issues, related to a bug in the older versions of `wget` ``` (see `Issue 59 <https://bitbucket.org/pypa/pypi/issue/59#comment-5881915>`_``). If you happen to encounter

them,

install Setuptools as follows::

```
> wget --no-check-certificate https://bootstrap.pypa.io/ez_setup.py
> python ez_setup.py --insecure
```

Unix including Mac OS X (curl)

=====

If your system has curl installed, follow the ``wget`` instructions but replace ``wget`` with ``curl`` and ``-O`` with ``-o``. For example::

```
> curl https://bootstrap.pypa.io/ez_setup.py -o - | python
```

Advanced Installation

=====

For more advanced installation options, such as installing to custom locations or prefixes, download and extract the source tarball from `Setuptools on PyPI` <<https://pypi.python.org/pypi/setuptools>> and run setup.py with any supported distutils and Setuptools options. For example::

```
setuptools-x.x$ python setup.py install --prefix=/opt/setuptools
```

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: <https://pythonhosted.org/setuptools/EasyInstall>
.. _the section on custom installation locations: <https://pythonhosted.org/setuptools/EasyInstall#custom-installation-locations>

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: <https://pypi.python.org/pypi/setuptools>

In addition to the PyPI downloads, the development version of ``setuptools`` is available from the `Bitbucket repo`_, and in-development versions of the

`0.6 branch`_ are available as well.

.. _Bitbucket

repo: <https://bitbucket.org/pypa/setuptools/get/default.tar.gz#egg=setuptools-dev>

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

Uninstalling

=====

On Windows, if Setuptools was installed using an ``.exe`` or ``.msi`` installer, simply use the uninstall feature of "Add/Remove Programs" in the Control Panel.

Otherwise, to uninstall Setuptools or Distribute, regardless of the Python version, delete all ``setuptools*`` and ``distribute*`` files and directories from your system's ``site-packages`` directory (and any other ``sys.path`` directories) FIRST.

If you are upgrading or otherwise plan to re-install Setuptools or Distribute, nothing further needs to be done. If you want to completely remove Setuptools, you may also want to remove the 'easy_install' and 'easy_install-x.x' scripts and associated executables installed to the Python scripts directory.

Using Setuptools and EasyInstall

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`_
- * `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: <https://bitbucket.org/pypa/setuptools/issues>

.. _The Internal Structure of Python Eggs: <https://pythonhosted.org/setuptools/formats.html>

.. _The setuptools Developer's Guide: <https://pythonhosted.org/setuptools/setuptools.html>

.. _The pkg_resources API reference: https://pythonhosted.org/setuptools/pkg_resources.html

.. _The EasyInstall user's guide and reference manual: https://pythonhosted.org/setuptools/easy_install.html

.._distutils-sig mailing list: <http://mail.python.org/pipermail/distutils-sig/>

Credits

- * The original design for the ``.egg`` format and the ``pkg_resources`` API was co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first version of ``pkg_resources``, and supplied the OS X operating system version compatibility algorithm.
- * Ian Bicking implemented many early "creature comfort" features of `easy_install`, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and `setuptools`.
- * Jim Fulton contributed time and effort to build automated tests of various aspects of ``easy_install``, and supplied the doctests for the command-line ``.exe`` wrappers on Windows.
- * Phillip J. Eby is the seminal author of `setuptools`, and first proposed the idea of an importable binary distribution format for Python application plug-ins.
- * Significant parts of the implementation of `setuptools` were funded by the Open Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application. In addition, many OSAF staffers (such as Mike "Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and `setuptools`, even before eggs were "cool". (Thanks, guys!)
- * Tarek Ziade is the principal author of the Distribute fork, which re-invigorated the community on the project, encouraged renewed innovation, and addressed many defects.
- * Since the merge with Distribute, Jason R. Coombs is the maintainer of `setuptools`. The project is maintained in coordination with the Python Packaging Authority (PyPA) and the larger Python community.

.._files:

Keywords: CPAN PyPI distutils eggs package management

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers
Classifier:
License :: OSI Approved :: Python Software Foundation License
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Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.1
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: System :: Archiving :: Packaging
Classifier: Topic :: System :: Systems Administration
Classifier: Topic :: Utilities

Found in path(s):

* /opt/cola/permits/174431683_1695325757.7531395/0/setuptools-18-2-tar-gz/setuptools-18.2/setuptools.egg-info/PKG-INFO

* /opt/cola/permits/174431683_1695325757.7531395/0/setuptools-18-2-tar-gz/setuptools-18.2/PKG-INFO

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Found in path(s):

* /opt/cola/permits/174431683_1695325757.7531395/0/setuptools-18-2-tar-gz/setuptools-18.2/pkg_resources/_vendor/packaging/__about__.py

* /opt/cola/permits/174431683_1695325757.7531395/0/setuptools-18-2-tar-gz/setuptools-18.2/pkg_resources/_vendor/packaging/_compat.py

* /opt/cola/permits/174431683_1695325757.7531395/0/setuptools-18-2-tar-gz/setuptools-18.2/pkg_resources/_vendor/packaging/specifiers.py

* /opt/cola/permits/174431683_1695325757.7531395/0/setuptools-18-2-tar-gz/setuptools-18.2/pkg_resources/_vendor/packaging/version.py

* /opt/cola/permits/174431683_1695325757.7531395/0/setuptools-18-2-tar-gz/setuptools-18.2/pkg_resources/_vendor/packaging/__init__.py

*

1.196 python-urlgrabber 3.9.1 r1.0

1.196.1 Available under license :

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Version 2.1, February 1999

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@c ispell-local-pdict: "ispell-dict"  
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Modemu Version 0.0.1

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1.201 ncurses 5.9 r15.1.0

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

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```

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```
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```

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1.203 netbase 5.3 r0.0

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1.204 libnettle6 3.1.1 r0.0

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```

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

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less

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

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

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

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

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

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

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If 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

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the object code for the work under the terms of Section 6.

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

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

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a)

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

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

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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

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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.

^L

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

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

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

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^L

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END OF TERMS AND CONDITIONS

^L

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

It is safest to attach them to the start of each source

file to most

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

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

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

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

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

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

That's all there is to it!
This package was debianized by Jean Pierre LeJacq <jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt <martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner <jandd@debian.org>.

It was downloaded from <http://sourceforge.net/projects/cracklib>

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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

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Copyright information:

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

EFFECTIVE

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

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

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
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GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

=2Dmike

Re: [Cracklib-devel] cracklib license

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

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

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

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> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

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GPL-2 ... it was a modified artistic license ... i didnt notice the license=

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change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless the
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applications are also GPL-2 which imo is just wrong. it isn't the place of a
library to dictate to application what license they should be using.

thus LGPL-2.1 enters to fill this void.

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=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

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> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan

>

Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

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> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

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> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would

like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro
>> maintainers to get together with Alec in a conversation and come to a
>> decision as to what licensing scheme y'all want. I haven't really done
>> much other than cleaning up the packaging and patches

and a small

>> bit of
>> additional code, so whatever licensing y'all come up with is fine
>> by me.

>

> I am sympathetic. Guys, what do you reckon?

>

> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro
>>> maintainers to get together with Alec in a conversation and come to a
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> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message

as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

>>> In any case, I thank you both for working on sorting this out.

>>

>> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
>> make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use
nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct
2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)

In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status:
RO
Content-Length: 585
Lines: 21

>
> ----- Forwarded message -----
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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

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

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

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GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license

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-- Nathan

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Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

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Re: [Cracklib-devel] cracklib license

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Attachments: Message as HTML

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cracklib license

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> Cc: cracklib-devel@li...; Alec Muffett
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Re: [Cracklib-devel] cracklib license

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> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I
think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and

will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro
>> maintainers to get together with Alec in a conversation and come to a
>> decision as to what licensing scheme y'all want. I haven't really done
>> much other than cleaning up the packaging and patches and a small
>> bit of
>> additional

code, so whatever licensing y'all come up with is fine

>> by me.

>

> I am sympathetic. Guys, what do you reckon?

>

> What I am hearing so far is that LGPL makes sense, since it can be

> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro
>>> maintainers to get together with Alec in a conversation and come to a
>>> decision as to what licensing scheme y'all want. I haven't really done
>>> much other than cleaning up the packaging and patches and a small
>>> bit of
>>> additional code, so whatever licensing y'all come up with is fine
>>> by me.

>>

>> I am sympathetic. Guys, what do you reckon?

>>

>> What I am hearing so far is that LGPL makes sense, since it can be
>> linked with any code, not just GPL...

>

> My apologies for not chiming in in anything resembling a reasonable
> timeframe.

>

> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using

the library under a later version of the

> GPL would permit applications which were released under version 3 of the

> GPL to use the library, too, which would be sufficient for the packages

> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make

> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October

2008, Alec Muffett wrote:

>>> In any case, I thank you both for working on sorting this out.
>>
>> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
>> make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From

alecm@crypticide.com Mon Oct 1 12:26:03 2007

Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:03 -0500

Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:02 -0500

Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000

Received: from smtp1.srv.mst.edu (131.151.1.43)

by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000

Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])

by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623

for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500

Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
[82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

>
> ----- Forwarded message -----
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

1.208 libpkit 0.20.7 3.e17

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1.209 openssh 7.1p1 r0.2.0

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*

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[Tatu continues]

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these restrictively licenced software components which he talks about
have been removed from OpenSSH, i.e.,

- RSA is no longer included, found in the OpenSSL library
- IDEA is no longer included, its use is deprecated
- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- 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

[The licence continues]

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```
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*
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*
* Ariel Futoransky <futo@core-sdi.com>
* <http://www.core-sdi.com>
```

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and Paulo Barreto is in the public domain and distributed
with the following license:

* @version 3.0 (December 2000)

*

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

*

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

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

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

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-----
$OpenBSD: LICENCE,v 1.19
2004/08/30 09:18:08 markus Exp $
/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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*/

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifdef _COMPAT_POLL_H
#define _COMPAT_POLL_H

typedef struct pollfd {
int fd;
short events;

```

```

short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not
standard */

int poll(struct pollfd *, nfd_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
/* $Id: bsd-setres_id.h,v 1.1 2012/11/05 06:04:37 dtucker Exp $ */

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 */

#ifdef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif

#ifdef HAVE_SETRESUID

```

```

int setresuid(uid_t, uid_t, uid_t);
#endif
/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */

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 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w)) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w)

```

```
((_W_INT(w)) & WCOREFLAG)
```

```
/* Prototype */
```

```
pid_t waitpid(int, int *, int);
```

```
#endif /* !HAVE_WAITPID */
```

```
#endif /* _BSD_WAITPID_H */
```

1.210 attr 2.4.47 r0.0

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

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Schulze <joe@debian.org> and then by Siggy Brentrup <bsb@winnegan.de>,
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In August 2009 the upstream development and Debian packaging were taken over
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Schulze <joe@debian.org> and then by Siggy Brentrup <bsb@winnegan.de>,
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I would like to thank the following people (in alphabetical order):

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- ARM Ltd, for donating a copy of "ARM Architecture Reference Manual".
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- FSF France, for providing me with access to the GCC Compile Farm.
- SourceForge, for their excellent open source development platform.

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Go support for Protocol Buffers - Google's data interchange format

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<https://github.com/golang/protobuf>

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- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
- e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no

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`/* Miscellaneous error functions`

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```
#include <system.h>
```

```
#include <paxlib.h>
```

```
void
```

```
pax_exit ()
```

```
{
```

```
    exit (exit_status);
```

```
}
```

1.222 cracklib 2.9.5 r0.0

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

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

That's all there is to it!

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

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

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

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

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
=>20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan

wrote:

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

the original license (before moving to sourceforge -- aka, 2.7) was not=>20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=>20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=>20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=>20
library to dictact to application writes what license they should be using.=
=>20
thus LGPL-2.1 enters to fill this void.
=>2Dmike

Re: [Cracklib-devel]
cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done

much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan

> Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

> > I understand that, and you're welcome to bring it up with Alec

> directly

> > and see if he wants to relicense his code as LGPL... but at this

> point,

> > it was enough to just get it consistent and documented as to what

> it was

> > released under. This wasn't actually a license change, just a

> > clarification of the licensing that was already in place.

>=20

> the original license (before moving to sourceforge -- aka, 2.7) was

> not

> GPL-2 ... it was a modified artistic license ... i didnt notice the

> license

> change until it was mentioned in the latest notes.

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> unlike the old license, GPL-2 prevents people from using cracklib

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> applications are also GPL-2 which imo is just wrong. it isnt the

> place of a

> library

to dictact to application writes what license they should

> be using.

> thus LGPL-2.1 enters to fill this void.

> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I

think it is in everyone's

best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro
>> maintainers to get together with Alec in a conversation and come to a
>> decision as to what licensing scheme y'all want. I haven't really done
>> much other than cleaning up the packaging and patches and a small
>> bit of
>> additional
code, so whatever licensing y'all come up with is fine
>> by me.

>

> I am sympathetic. Guys, what do you reckon?

>

> What I am hearing so far is that LGPL makes sense, since it can be

> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro
>>> maintainers to get together with Alec in a conversation and come to a
>>> decision as to what licensing scheme y'all want. I haven't really done
>>> much other than cleaning up the packaging and patches and a small
>>> bit of
>>> additional code, so whatever licensing y'all come up with is fine
>>> by me.

>>

>> I am sympathetic. Guys, what do you reckon?

>>

>> What I am hearing so far is that LGPL makes sense, since it can be
>> linked with any code, not just GPL...

>

> My apologies for not chiming in in anything resembling a reasonable
> timeframe.

>

> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using

the library under a later version of the

> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October

2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From
alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
[82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:

585

Lines: 21

>

> ----- Forwarded message -----

> From: Neulinger, Nathan <nneul@umr.edu>

> Date: Sep 27, 2007 2:58 PM

> Subject: RE: cracklib license

> To: alecm@crypto.dircon.co.uk

>

> Any chance you could write me a self-contained email stating clearly

> that the license is being changed to GPL, so I could include that

> email

> in the repository and clean up the repository/tarballs? I have all the

> original discussion, but something succinct and self contained

> would be

> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.223 createrepo 0.4.11 r9.0

1.223.1 Available under license :

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Version 2, June 1991

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1.226 dhcp-server 4.3.2 r0.0

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

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

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

Author: Julio Merino <jmmv84@gmail.com>

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

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=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<!-- \$Id: copyright.xml,v 1.8 2009/07/10 23:47:58 tbox Exp \$ -->

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

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '#10;'))"/>

<xsl:text>#10;</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '#10;')"/>

<xsl:if test="translate(\$rest, '#9;#32;', '')">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text" select="\$rest"/>

</xsl:call-template>

</xsl:if>

</xsl:template>

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

<xsl:text>

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```
</xsl:text>
</xsl:variable>

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

</xsl:stylesheet>

<!--
```

```
- Local variables:
- mode: sgml
- End:
-->
```

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1.227 diffutils 3.3 r0.0

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/* diff - compare files line by line

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```

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

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1.230 docker

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

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<signature of Ty Coon>, 1 April 1989
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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Support for streaming Protocol Buffer messages for the Go language (golang).

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1.231 e2fsprogs 1.42.9 r0.0

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*/

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>.

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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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Gadi Oxman, August 1995

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```

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```
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```

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Theodore Ts'o
23-June-2007

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a modified

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

That's all there is to it!

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

all:: image

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

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

image: \$(BSD_LIB)

```
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LD_FLAGS) $(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)/$(BSD_LIB)
@-$(LD_CONFIG)
```

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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

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

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This package was put together by Yann Dirson <dirson@debian.org>,

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

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

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```
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```

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

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```
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1.239 libgcc 5.2.0 r0.0

1.239.1 Available under license :

```
.\" Automatically generated by Pod::Man 2.22 (Pod::Simple 3.13)
.\"
.\" Standard preamble:
.\" =====
.de Sp \" Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
..
.de Vb \" Begin verbatim text
.ft CW
.nf
.ne \\$1
..
.de Ve \" End verbatim text
.ft R
.fi
..
.\" Set up some character translations and predefined strings. \*(-- will
.\" give an unbreakable dash, \*(PI will give pi, \*(L" will give a left
.\" double quote, and \*(R" will give a right double quote. \*(C+ will
.\" give a nicer C++. Capital omega is used to do unbreakable dashes and
.\" therefore won't be available. \*(C` and \*(C' expand to ` in nroff,
.\" nothing in troff, for use with C<>.
.tr \*(W-
.ds C+ C\v'-1v'h'-1p's-2+h'-1p'+\s0\v'.1v'h'-1p'
.ie n \{\
. ds -- \*(W-
. ds PI pi
```

```

. if (\n(.H=4u)&(1m=24u) .ds -- \(*W\h'-12u\(*W\h'-12u'-\ " diablo 10 pitch
. if (\n(.H=4u)&(1m=20u) .ds -- \(*W\h'-12u\(*W\h'-8u'-\ " diablo 12
pitch
. ds L" ""
. ds R" ""
. ds C` ""
. ds C' ""
"br\}
.el\{\
. ds -- \\\(em\|
. ds PI \(*p
. ds L" ``
. ds R" "
"br\}
.\"
.\" Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(.g .ds Aq \(\aq
.el .ds Aq '
.\"
.\" If the F register is turned on, we'll generate index entries on stderr for
.\" titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
.\" entries marked with X<> in POD. Of course, you'll have to process the
.\" output yourself in some meaningful fashion.
.ie \nF \{\
. de IX
. tm Index:\$1\t\n%t"\$2"
..
. nr % 0
. rr F
.\}
.el \{\
. de IX
..
.\}
.\"
.\" Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
.\" Fear. Run. Save yourself. No user-serviceable parts.
. \ " fudge factors for nroff and troff
.if n \{\
. ds #H 0
. ds #V .8m
. ds #F .3m
. ds #[ \f1
. ds #] \fP
.\}
.if t \{\
. ds #H ((1u-(\\n(.fu%2u))*).13m)
. ds #V .6m

```

```

. ds #F
0
. ds #[ \&
. ds #] \&
.\}
. \" simple accents for nroff and troff
.if n {\
. ds ' \&
. ds ` \&
. ds ^ \&
. ds , \&
. ds ~ ~
. ds /
.\}
.if t {\
. ds ' \k:k:h'-(\n(.wu*8/10-\*(#H)^\h''\n:u"
. ds ` \k:k:h'-(\n(.wu*8/10-\*(#H)^\`h''\n:u'
. ds ^ \k:k:h'-(\n(.wu*10/11-\*(#H)'^h''\n:u'
. ds , \k:k:h'-(\n(.wu*8/10)',h''\n:u'
. ds ~ \k:k:h'-(\n(.wu-\*(#H-.1m)~\h''\n:u'
. ds / \k:k:h'-(\n(.wu*8/10-\*(#H)\z\slh''\n:u'
.\}
. \" troff and (daisy-wheel) nroff accents
.ds : \k:k:h'-(\n(.wu*8/10-\*(#H+.1m+\*(#F)\v'-\*(#V\z.h'.2m+\*(#F'.h''\n:u'\v''\*(#V'
.ds 8 \h''\*(#H'(\*b'h'-\*(#H'
.ds o \k:k:h'-(\n(.wu+\w'\(de'u-\*(#H)/2u'\v'-.3n''\*(#[z\z\de\v'.3n'h''\n:u''\*(#)
.ds d- \h''\*(#H'\(pd|h'-\w'~'u'\v'-.25m'\f2\(\hy\fp\v'.25m'h'-\*(#H'
.ds D- D\k:k:h'-'w'D'u'\v'-.11m'\z\(\hy\v'.11m'h''\n:u'
.ds th \*(#[v'.3m'\s+1I\s-1\v'-.3m'h'-(\w'Tu*2/3)\s-1o\s+1\*(#)
.ds Th \*(#[\s+2I\s-2|h'-\w'Tu*3/5\v'-.3m'o\v'.3m''\*(#)
.ds ae a|h'-(\w'a'u*4/10)'e
.ds
Ae A|h'-(\w'A'u*4/10)'E
. \" corrections for vroff
.if v .ds ~ \k:k:h'-(\n(.wu*9/10-\*(#H)\s-2\u~\d\s+2|h''\n:u'
.if v .ds ^ \k:k:h'-(\n(.wu*10/11-\*(#H)\v'-.4m'^\v'.4m'h''\n:u'
. \" for low resolution devices (crt and lpr)
.if \n(.H>23 .if \n(.V>19 \
{\
. ds : e
. ds 8 ss
. ds o a
. ds d- d|h'-1'\(ga
. ds D- D|h'-1'\(hy
. ds th \o'bp'
. ds Th \o'LP'
. ds ae ae
. ds Ae AE

```



```

.\}
.rm #[ #] #H #V #F C
.\" =====
.\"
.IX Title "GPL 7"
.TH GPL 7 "2015-07-16" "gcc-5.2.0" "GNU"
.\" For nroff, turn off justification. Always turn off hyphenation; it makes
.\" way too many mistakes in technical documents.
.if n .ad l
.nh
.SH "NAME"
gpl \- GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.SS "\s-1GNU\s0 General Public License"
.IX Subsection "GNU General Public License"
.SS "Version 3, 29 June 2007"
.IX Subsection "Version 3, 29 June 2007"
.Vb 1
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    Copyright (c) 2007 Free Software Foundation, Inc. <http://fsf.org/>
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\&     license document, but changing it is not allowed.
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can apply it to your programs, too.
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want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.
.PP
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```

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.PP

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

.PP

Developers that use the `\s-1GNU\s0 \s-1GPL\s0` protect your rights with two steps:

(1) assert copyright

on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

.PP

For the developers' and authors' protection, the `\s-1GPL\s0` clearly explains that there is no warranty for this free software. For both users' and authors' sake, the `\s-1GPL\s0` requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

.PP

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the `\s-1GPL\s0` to prohibit the practice for those products. If such problems arise substantially in other domains,

we stand ready to extend this provision to those domains in future versions of the `\s-1GPL\s0`, as needed to protect the freedom of users.

.PP

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the `\s-1GPL\s0` assures that patents cannot be used to render the program non-free.

.PP

The precise terms and conditions for copying, distribution and modification follow.

.SS "`\s-1TERMS\s0 \s-1AND\s0 \s-1CONDITIONS\s0`"

.IX Subsection "TERMS AND CONDITIONS"

.IP "0. Definitions." 4

.IX Item "0. Definitions."

\&*(L"This License*(R" refers to version 3 of the \s-1GNU\s0 General Public License.

.Sp

\&*(L"Copyright*(R" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

.Sp

\&*(L"The

Program*(R" refers to any copyrightable work licensed under this License. Each licensee is addressed as *(L"you*(R". *(L"Licensees*(R" and \&*(L"recipients*(R" may be individuals or organizations.

.Sp

To *(L"modify*(R" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a *(L"modified version*(R" of the earlier work or a work *(L"based on*(R" the earlier work.

.Sp

A *(L"covered work*(R" means either the unmodified Program or a work based on the Program.

.Sp

To *(L"propagate*(R" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

.Sp

To *(L"convey*(R" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

.Sp

An interactive user interface displays *(L"Appropriate Legal Notices*(R" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

.IP "1. Source Code." 4

.IX Item "1. Source Code."

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

.Sp

A *(L"Standard

Interface*(R" means an interface that either is an official standard defined by a recognized standards body, or, in the case of

interfaces specified for a particular programming language, one that is widely used among developers working in that language.

.Sp

The *(L"System Libraries*(R" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A \&*(L"Major Component*(R", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

.Sp

The *(L"Corresponding Source*(R" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

.Sp

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

.Sp

The Corresponding Source for a work in source code form is that same work.

.IP "2.

Basic Permissions." 4

.IX Item "2. Basic Permissions."

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.Sp

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

.IP "3. Protecting Users' Legal Rights From Anti-Circumvention Law." 4

.IX Item "3. Protecting Users' Legal Rights From Anti-Circumvention Law."

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the \s-1WIPO\s0 copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

.Sp

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.IP "4. Conveying Verbatim Copies." 4

.IX Item "4. Conveying Verbatim Copies."

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

.Sp

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

.IP "5. Conveying Modified Source Versions." 4

.IX Item "5. Conveying Modified Source Versions."

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

.RS 4

.IP "a." 4

.IX Item "a."

The work must carry prominent notices stating that you modified it, and giving a relevant date.

.IP "b." 4

.IX Item "b."

The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to *(L"keep intact all notices*(R".

.IP "c." 4

.IX Item "c."

You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

.IP "d." 4

.IX Item "d."

If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

.RE

.RS 4

.Sp

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an \&*(L"aggregate*(R" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

.RE

.IP "6. Conveying Non-Source Forms." 4

.IX Item "6. Conveying Non-Source Forms."

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

.RS 4

.IP "a." 4

.IX Item "a."

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

.IP "b." 4

.IX Item "b."

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost

of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

.IP "c." 4

.IX Item "c."

Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

.IP "d." 4

.IX Item "d."

Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next

to the object code saying where to find the Corresponding Source.

Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

.IP "e." 4

.IX Item "e."

Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

.RE

.RS 4

.Sp

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

.Sp

A *(L"User Product*(R" is either (1) a *(L"consumer product*(R", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, \&*(L"normally used*(R" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

.Sp

\&*(L"Installation Information*(R" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

.Sp

If

you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in \s-IROM\s0).

.Sp

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially

and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

.Sp

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

.RE

.IP "7. Additional Terms." 4

.IX Item "7. Additional Terms."

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.RS 4

.IP "a." 4

.IX Item "a."

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.IX Item "b."

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.IX Item "c."

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.IX Item "d."

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.IX Item "e."

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.IX Item "f."

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.RS 4

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.IP "8. Termination." 4

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.IX Item "9. Acceptance Not Required for Having Copies."

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.IP "11. Patents." 4

.IX Item "11. Patents."

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.IX Item "12. No Surrender of Others' Freedom."

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.IP "14. Revised Versions of this License." 4

.IX Item "14. Revised Versions of this License."

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.IP "15. Disclaimer of Warranty." 4

.IX Item "15. Disclaimer of Warranty."

& \s-1THERE\s0 \s-1IS\s0 \s-1NO\s0 \s-1WARRANTY\s0 \s-1FOR\s0 \s-1THE\s0 \s-1PROGRAM\s0, \s-1TO\s0 \s-1THE\s0 \s-1EXTENT\s0 \s-1PERMITTED\s0 \s-1BY\s0

& \s-1APPLICABLE\s0 \s-1LAW\s0. \s-1EXCEPT\s0 \s-1WHEN\s0 \s-1OTHERWISE\s0 \s-1STATED\s0 \s-1IN\s0 \s-1WRITING\s0 \s-1THE\s0 \s-1COPYRIGHT\s0

& \s-1HOLDERS\s0 \s-1AND/OR\s0 \s-1OTHER\s0 \s-1PARTIES\s0 \s-1PROVIDE\s0 \s-1THE\s0 \s-1PROGRAM\s0 *(L" \s-1AS\s0 \s-1IS\s0 *(R" \s-1WITHOUT\s0

& \s-1WARRANTY\s0 \s-1OF\s0 \s-1ANY\s0 \s-1KIND\s0, \s-1EITHER\s0 \s-1EXPRESSED\s0 \s-1OR\s0 \s-1IMPLIED\s0, \s-1INCLUDING\s0, \s-1BUT\s0 \s-1NOT\s0

& \s-1LIMITED\s0 \s-1TO\s0, \s-1THE\s0 \s-1IMPLIED\s0 \s-1WARRANTIES\s0 \s-1OF\s0 \s-1MERCHANTABILITY\s0 \s-1AND\s0 \s-1FITNESS\s0 \s-1FOR\s0

A \s-1PARTICULAR\s0 \s-1PURPOSE\s0. \s-1THE\s0 \s-1ENTIRE\s0 \s-1RISK\s0 \s-1AS\s0 \s-1TO\s0 \s-1THE\s0 \s-1QUALITY\s0 \s-1AND\s0

& \s-1PERFORMANCE\s0

\s-1OF\s0 \s-1THE\s0 \s-1PROGRAM\s0 \s-1IS\s0 \s-1WITH\s0 \s-1YOU\s0. \s-1SHOULD\s0 \s-1THE\s0 \s-1PROGRAM\s0 \s-1PROVE\s0

& \s-1DEFECTIVE\s0, \s-1YOU\s0 \s-1ASSUME\s0 \s-1THE\s0 \s-1COST\s0 \s-1OF\s0 \s-1ALL\s0 \s-

1NECESSARY\s0 \s-1SERVICING\s0, \s-1REPAIR\s0 \s-1OR\s0
 \&\s-1CORRECTION\s0.
 .IP "16. Limitation of Liability." 4
 .IX Item "16. Limitation of Liability."
 \&\s-1IN\s0 \s-1NO\s0 \s-1EVENT\s0 \s-1UNLESS\s0 \s-1REQUIRED\s0 \s-1BY\s0 \s-1APPLICABLE\s0 \s-
 1LAW\s0 \s-1OR\s0 \s-1AGREED\s0 \s-1TO\s0 \s-1IN\s0 \s-1WRITING\s0
 \&\s-1WILL\s0 \s-1ANY\s0 \s-1COPYRIGHT\s0 \s-1HOLDER\s0, \s-1OR\s0 \s-1ANY\s0 \s-1OTHER\s0 \s-
 1PARTY\s0 \s-1WHO\s0 \s-1MODIFIES\s0 \s-1AND/OR\s0
 \&\s-1CONVEYS\s0 \s-1THE\s0 \s-1PROGRAM\s0 \s-1AS\s0 \s-1PERMITTED\s0 \s-1ABOVE\s0, \s-1BE\s0 \s-
 1LIABLE\s0 \s-1TO\s0 \s-1YOU\s0 \s-1FOR\s0 \s-1DAMAGES\s0,
 \&\s-1INCLUDING\s0 \s-1ANY\s0 \s-1GENERAL\s0, \s-1SPECIAL\s0, \s-1INCIDENTAL\s0 \s-1OR\s0 \s-
 1CONSEQUENTIAL\s0 \s-1DAMAGES\s0
 \&\s-1ARISING\s0 \s-1OUT\s0 \s-1OF\s0
 \s-1THE\s0 \s-1USE\s0 \s-1OR\s0 \s-1INABILITY\s0 \s-1TO\s0 \s-1USE\s0 \s-1THE\s0 \s-1PROGRAM\s0 (\s-
 1INCLUDING\s0 \s-1BUT\s0
 \&\s-1NOT\s0 \s-1LIMITED\s0 \s-1TO\s0 \s-1LOSS\s0 \s-1OF\s0 \s-1DATA\s0 \s-1OR\s0 \s-1DATA\s0 \s-
 1BEING\s0 \s-1RENDERED\s0 \s-1INACCURATE\s0 \s-1OR\s0
 \&\s-1LOSSES\s0 \s-1SUSTAINED\s0 \s-1BY\s0 \s-1YOU\s0 \s-1OR\s0 \s-1THIRD\s0 \s-1PARTIES\s0 \s-1OR\s0
 A \s-1FAILURE\s0 \s-1OF\s0 \s-1THE\s0 \s-1PROGRAM\s0
 \&\s-1TO\s0 \s-1OPERATE\s0 \s-1WITH\s0 \s-1ANY\s0 \s-1OTHER\s0 \s-1PROGRAMS\s0), \s-1EVEN\s0 \s-
 1IF\s0 \s-1SUCH\s0 \s-1HOLDER\s0 \s-1OR\s0 \s-1OTHER\s0
 \&\s-1PARTY\s0 \s-1HAS\s0 \s-1BEEN\s0 \s-1ADVISED\s0 \s-1OF\s0 \s-1THE\s0 \s-1POSSIBILITY\s0 \s-
 1OF\s0 \s-1SUCH\s0 \s-1DAMAGES\s0.

.IP "17. Interpretation of Sections 15 and 16." 4

.IX Item "17. Interpretation of Sections 15 and 16."

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 above cannot be given local legal effect according to their terms,
 reviewing courts shall apply local law that most
 closely approximates

an absolute waiver of all civil liability in connection with the
 Program, unless a warranty or assumption of liability accompanies a
 copy of the Program in return for a fee.

.SS "\s-1END\s0 \s-1OF\s0 \s-1TERMS\s0 \s-1AND\s0 \s-1CONDITIONS\s0"

.IX Subsection "END OF TERMS AND CONDITIONS"

.SS "How to Apply These Terms to Your New Programs"

.IX Subsection "How to Apply These Terms to Your New Programs"

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

.PP

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

.PP

.Vb 2

\& <one line to give the program*(Aqs name and a brief

idea of what it does.>

```
\& Copyright (C) <year> <name of author>
```

```
\&
```

```
\& This program is free software: you can redistribute it and/or modify  
\& it under the terms of the GNU General Public License as published by  
\& the Free Software Foundation, either version 3 of the License, or (at  
\& your option) any later version.
```

```
\&
```

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

```
\&
```

```
\& You should have received a copy of the GNU General Public License  
\& along with this program. If not, see <http://www.gnu.org/licenses/>.
```

```
.Ve
```

```
.PP
```

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

```
.PP
```

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

```
.PP
```

```
.Vb 4
```

```
\& <program> Copyright (C) <year> <name of author>
```

```
\& This program 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.
```

```
.Ve
```

```
.PP
```

The hypothetical commands `\fBshow w\fR` and `\fBshow c\fR` should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a `\s-1GUI\s0` interface, you would use an `*(L"about box*(R"`.

```
.PP
```

You should also get your employer (if you work as a programmer) or school, if any, to sign a `*(L"copyright disclaimer*(R"` for the program, if necessary.

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```
.PP
```

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```
.SH "SEE ALSO"
```


.IX Header "SEE ALSO"

\&\fIgfdl\fR\|(7), \ffsf\ -funding\fR\|(7).

.SH "COPYRIGHT"

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1.240 gdb 7.10.1 r0.0

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

The hypothetical commands

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

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```
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```

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

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```
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```

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Version 3, 29 June 2007

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structure

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```
BEGIN {
  FS="\"";
  print "/* ==> Do not modify this file!! \" \
  \"-*- buffer-read-only: t -*- vi\" \
  \":set ro:\";
  print \" It is created automatically by copying.awk.\";
  print \" Modify copying.awk instead. <== */\";
  print \"\"
  print \"#include \\\"defs.h\\\"\"
  print \"#include \\\"command.h\\\"\"
  print \"#include \\\"gdbcmd.h\\\"\"
  print \"\"
  print \"static void show_copying_command (char *, int);\"
  print \"\"
  print \"static void show_warranty_command (char *, int);\"
  print \"\"
  print \"void _initialize_copying (void);\"
  print \"\"
  print \"static void\";
  print \"show_copying_command (char *ignore, int from_tty)\";
  print \"{\";
}
NR == 1,/^[ ]*15\\. Disclaimer of Warranty\\. [ ]*$/ {
  if ($0 ~ //)
  {
    printf \" printf_filtered (\\\"\\n\\\");\\n\";
  }
  else if ($0 !~ /^[ ]*15\\. Disclaimer of Warranty\\. [ ]*$/)
  {
    printf \" printf_filtered (\\\"\";
    for (i = 1; i < NF; i++)
    printf \"%s\\\"\", $i;
    printf \"%s\\n\\\");\\n\", $NF;
  }
}
/^[ ]*15\\.
Disclaimer of Warranty\\. [ ]*$/ {
  print \"}\";
  print \"\";
  print \"static void\";
  print \"show_warranty_command (char *ignore, int from_tty)\";
```

```

    print "{";
  }
/^[ ]*15\. Disclaimer of Warranty\.[ ]*$/, /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/ {
  if (! ($0 ~ /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/))
    {
      printf " printf_filtered (\\"";
      for (i = 1; i < NF; i++)
        printf "%s\\\"", $i;
      printf "%s\\n\\");\n", $NF;
    }
}
END {
  print "}";
  print "";
  print "void"
  print "_initialize_copying (void)";
  print "{";
  print " add_cmd (\\"copying\\", no_set_class, show_copying_command, ";
  print " _(\\"Conditions for redistributing copies of GDB.\");";
  print " &showlist);";
  print " add_cmd (\\"warranty\\", no_set_class, show_warranty_command, ";
  print " _(\\"Various kinds of warranty you do not have.\");";
  print " &showlist);";
  print "";
  print " /* For old-timers, allow \"info copying\", etc. */";
  print " add_info
(\\"copying\\", show_copying_command, ";
  print " _(\\"Conditions for redistributing copies of GDB.\");";
  print " add_info (\\"warranty\\", show_warranty_command, ";
  print " _(\\"Various kinds of warranty you do not have.\");";
  print "}";
}

```

@node Library Copying

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

@display

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

@end display

@appendixsubsec Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software---to make sure the software is free for all its users.

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

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

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

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

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library.

The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

system.

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

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

@iftex

@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end iftex

@ifinfo

@center GNU LESSER GENERAL PUBLIC LICENSE

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end ifinfo

@enumerate 0

@item

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

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@item

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

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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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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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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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@item

Accompany the work with a written offer, valid for at least three years, to give the same user the materials

specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

@item

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

@item

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

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@enumerate a

@item

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@end enumerate

@iftex

@heading END OF TERMS AND CONDITIONS

@end iftex

@ifinfo

@center END OF TERMS AND CONDITIONS

@end ifinfo

@page

@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

@smallexample

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

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

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

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

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have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

@end smallexample

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

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

@smallexample

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

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

Ty Coon, President of Vice

@end smallexample

That's all there is to it!

#!/usr/bin/env python

Copyright (C) 2011-2015 Free Software Foundation, Inc.

#

This file is part of GDB.

#

```

# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program. If not, see <http://www.gnu.org/licenses/>.

```

```

"""copyright.py

```

This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!

A useful command to review

the output is:

```

% filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff

```

This removes the bulk of the changes which are most likely to be correct.

```

"""

```

```

import datetime
import os
import os.path
import subprocess

```

```

def get_update_list():

```

```

    """Return the list of files to update.

```

```

    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!). The names of
    the files are relative to that root directory.

```

```

    """

```

```

    result = []

```

```

    for gdb_dir in ('gdb', 'sim', 'include/gdb'):

```

```

        for root, dirs, files in os.walk(gdb_dir, topdown=True):

```

```

            for dirname in dirs:

```

```

                reldirname = "%s/%s" % (root, dirname)

```

```

                if (dirname in EXCLUDE_ALL_LIST

```

```

                    or reldirname in EXCLUDE_LIST

```

```

                    or reldirname in NOT_FSF_LIST

```

```

    or reldirname in BY_HAND):
    # Prune this directory from our search list.
    dirs.remove(dirname)
for filename in files:
    relpath = "%s/%s" % (root, filename)
    if (filename in EXCLUDE_ALL_LIST
        or relpath in EXCLUDE_LIST
        or relpath in NOT_FSF_LIST
        or relpath in BY_HAND):
        # Ignore this file.
        pass
    else:
        result.append(relpath)
return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

    # Perform the update, and save the output in a string.
    update_cmd
= ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list

    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                          stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]

    # Process the output. Typically, a lot of files do not have
    # a copyright notice :-(. The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
    # For each of those, do a sanity check and see if they may in fact
    # have one. For the files that are found not to have one, we filter
    # the line out from the output, since there is nothing more to do,
    # short of looking at each file and seeing which notice is appropriate.
    # Too much work! (~4,000 files listed as of 2012-01-03).
    update_out = update_out.splitlines()
    warning_string = ': warning: copyright statement not found'
    warning_len = len(warning_string)

```

```

for line in update_out:
    if line.endswith('\n'):

        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
    else:
        # Unrecognized file format. !?!
        print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
    directory.

    The algorithm is fairly crude, meaning that it might return
    some false positives. I do not think it will return any false
    negatives... We might improve this function to handle more
    complex cases later...
    """
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
    if lineno > 50:
        return False
    return False

def main ():
    """The main subprogram."""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

```

```

update_list = get_update_list()
update_files (update_list)

# Remind the user that some files need to be updated by HAND...
if BY_HAND:
    print
    print "\033[31mREMINDER: The following files must be updated by hand." \
          "\033[0m"
    for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
        print " ", filename

#####
#
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the
# script.
#
#####

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (
    'gdb/nat/glibc_thread_db.h',
    'gdb/CONTRIBUTE',
    'gdb/gnulib/import'
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.

EXCLUDE_ALL_LIST = (
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",
    "fdl.texi", "gpl.texi", "aclocal.m4",
)

# The list of files to update by hand.
BY_HAND = (
    # These

```

```

files are sensitive to line numbering.
  "gdb/testsuite/gdb.base/step-line.inp",
  "gdb/testsuite/gdb.base/step-line.c",
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (
  "gdb/doc/gdb.texinfo",
  "gdb/doc/refcard.tex",
  "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
  "gdb/exc_request.defs",
  "gdb/gdbtk",
  "gdb/testsuite/gdb.gdbtk/",
  "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
  "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
  "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
  "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
  "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
  "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
  "sim/arm/bag.c",
  "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
  "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
  "sim/arm/arminit.c",
  "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
  "sim/common/cgen-accfp.c",
  "sim/mips/m16run.c", "sim/mips/sim-main.c",
  "sim/moxie/moxie-gdb.dts",
  # Not a single file in sim/ppc/ appears to be copyright FSF :-(.
  "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
  "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
  "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
  "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
  "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
  "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
  "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
  "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
  "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
  "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
  "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
  "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
  "sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",

```

```

"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
"sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/idecode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h",
"sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

```

```

if __name__ == "__main__":

```

```

    main()

```

```

@ignore

```

```

@c Set file name and title for man page.

```

```

@setfilename gpl

```

```

@settitle GNU General Public License

```

```

@c man begin SEEALSO

```

```

gfdl(7), fsf-funding(7).

```

```

@c man end

```

```

@c man begin COPYRIGHT

```

```

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```

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@end ignore
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@end enumerate

@heading END OF TERMS AND CONDITIONS

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@smallexample

@var{one line to give the program's name and a brief idea of what it does.}
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`@end smallexample`

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

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

The hypothetical commands `@samp{show w}` and `@samp{show c}` should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an ```about box''`.

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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```
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1.241 libgdbm4 1.11 r0.0

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1.242 libglib 2.44.1 r0.0

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

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

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

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

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

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

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1.243 glibc-binary-localedata-en-us 2.22 r0.0

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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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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.)

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@enumerate a

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@item

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

@item

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@item

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@item

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

@end enumerate

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@subheading END OF TERMS AND CONDITIONS

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

Ty Coon, President of Vice

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```

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Version 3, 29 June 2007

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Constant-time SSSE3 AES core implementation.

version 0.1

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By Mike Hamburg (Stanford University), 2009

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

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

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1.248 gpt-fdisk 0.8.10 r0.0

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```

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```
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```

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```
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```

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

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

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@v,"fAMcBt$9AvuHAF0fA~IFHE1E17@INJ)But
I;F DBAVAGI9~]HT$IV(MIJ)*
JHRPuLI~LI~HqE:2HAHHTf.HH9uEVff.AUATIUSHHIIHXHHtIHHu"1HHHX[]A\A]LLHH1HHH0t
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bDEBE#@!E@R@R!E).(P.0GU.2U.3

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HDr9^6&HN""bIHNBmDr9\[NnN]nN]V9\=NN]N]V'9R%^p&N'K#___f/L\,\$NN]K\,\$NO]Kb\$C\$R""Of9'O9\"5OJO]J
O'OO\]OO]LbQ cQ \"OO]JO ___nI\q(OO)nN___p m{ 'o'^)O ___a#O ___p#S)___n#)89\}
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irDirDirEitFT_tG_rHTTrTrJJeKnGSoUvntFSOuvoTshuhnF=ToUvoT_oQ
uhnhhToU_oT4uhn+RToU~uinhToT4vhoT4;Twtl)I.UVmmq.Vq.q.r/it09Ex
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::I82L::;IM.?:;I<NO.?:;I<P.?:;I<Q::;RIS.?:;I<T7IU
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h.ln@dBi1j1kB1l.G::;@dBmI4n1oBpB1q::;Ir4::;Is4::;It4::;Iu1v1w!I/x1XYy1XYZ{1RUXY|1}U~411RUXY1RUXY1
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4Gn4Gn4Gn4Gn.?<nn.?<nUUUSutUU^U^TVTVTQSQSRR1P0PP]1]1]012010_P_P000101000p \$0)v \$0)p
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v|"#v|"#v|"#v|"#]Vp|"#v|"#v|"#v|"#v|"#v|"#v|"#v|"#v|"#00SPSs0p0s0SWpWp#U]V0t]VtS
SSSSSWqWq#ULu &

/nobackup/ambtripa/h/806/build/satori/target-
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linux/5.2.0/include/nobackup/ambtripa/h/806/build/satori/target-
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base.hgptpart.hattributes.hnew_allocator.hiostreamstddef.htypes.hlibio.hstdio.hwchar.h<built-
in>stdint.hbasic_string.tccstringfwd.hcwcharchar_traits.hc++config.hlocaleallocator.hcwctypeostream.tccstl_iterat
or_base_types.hpostypes.hiosfwdostream_insert.hfunctexcept.hdebug.hpredefined_ops.hnumeric_traits.halloc_traits
.hstl_iterator.htime.hlocale.hatomic_word.hwctype.hsupport.htime.h uuid.h
guid.hparttypes.hdiskio.hbsd.hnew *uguuKif!W=YKKzfBYMY"mX.)tMZ./ .KH=Ku-K
tutJLgfY-KyJ]aOJhn+gu"ehXTMZ&YK1wv{utfmJ}XX}J}X~tf^
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XQM6*Txn<JJ ~p
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}Jwcpbrklconv_S_showpoint_ZNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE7replaceEmmPKcmlabelSt
artDiskSync_ZN8PartTypeaSEt_ZNK9__gnu_cxx17__normal_iteratorIPKcNSt7__cxx1112basic_stringIcSt11char_
traitsIcESaIcEEEEplEI_unused2_ZNK8PartType8TypeNameB5cxx11Ev_filenoIsUsedunitbuf_ZNSt7__cxx1112ba
sic_stringIcSt11char_traitsIcESaIcEE8_M_eraseEmm~Attributesnot_eofreverse_iteratorfirstInstancetm_secsetstate
_S_ios_iostate_endallocatefwideiostate_ZStIsISt11char_traitsIcEERSt13basic_ostreamIcT_ES5_PKcnew_allocatori
nt_p_sep_by_space_ZNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE7replaceEN9__gnu_cxx17__normal_i
teratorIPcS4_EES8_PKcSA__ZNK7GPTPart13GetUniqueGUIDEvchar_type_ZNSt8ios_base4setfES13_Ios_Fmtfl
agsnextgetwc_ZN8PartTypeaSEPkcreverse_iterator<__gnu_cxx::__normal_iterator<char*,
std::__cxx11::basic_string<char, std::char_traits<char>, std::allocator<char>>>>
>__opsunknown_ZNKSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE5emptyEv_ZNKSt7__cxx1112basic_st
ringIcSt11char_traitsIcESaIcEE5beginEv_ZNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE13_S_copy_cha
rsEPcS5_S5_Seek_Value_shortbuf_Tp1__gnu_cxx_ZStorSt12_Ios_IostateS_ZSteqIcSt11char_traitsIcESaIcEEbR
KNSt7__cxx1112basic_stringIT_T0_T1_EEPKS5_ZN9__gnu_cxx13new_allocatorIcE10deallocateEPcm_ZNKSt
7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE5rfindERKS4_mBlankPartition_ZNSt7__cxx1112basic_stringI
cSt11char_traitsIcESaIcEEC4ERKS3_ZNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE6insertEmRKS4_i
terator_traits<char
const*>capacity_S_ate_ZN9__gnu_cxx17__normal_iteratorIPcNSt7__cxx1112basic_stringIcSt11char_traitsIcESaI
cEEEEEmmEinumParts_ZNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE7replaceEN9__gnu_cxx17__norm
al_iteratorIPcS4_EES8_S7_S7_uint16_tTypeName_ZN9__gnu_cxx17__normal_iteratorIPcNSt7__cxx1112basic_st
ringIcSt11char_traitsIcESaIcEEEEEmmEvoverflow_arg_area_ZNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIc
EE12_Alloc_hiderC4EPcRKS3_ZNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEEC4ERKS4_ZNSt11cha
r_traitsIcE4findEPKcmRS1__flags_ZN8GUIDData9RandomizeEvwctrans_M_local_dataSetDefaultDescriptionisw
ctypelengthOperateOnAttributesreg_save_areabasefield__off_t_ZNSt7__cxx1112basic_stringIcSt11char_traitsIcES
aIcEEC4EPKcmRKS3_ZN7GPTPart7SetTypeE8PartType_ZdaPv_ZNKSt7__cxx1112basic_stringIcSt11char_trai
tsIcESaIcEE8_M_limitEmm_ZNKSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE4sizeEvconst_pointer__nu
meric_traits_integer<int>ReverseMetaBytes__alloc_traits<std::allocator<char>
>GNU C++ 5.2.0 -m64 -mtune=generic -march=x86-64
-g -O2 -fvisibility-inlines-hidden_M_check_lengthdeallocatetowctransoperator!=<char, std::char_traits<char>,
std::allocator<char>
>tm_isdstgrouping_lockallocatorallOK_ZN8GUIDDataaSERKNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIc
EEEWcstoll_ZNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE10_M_disposeEv_ZN7BSSDData11ReadBSD
DataEP6DiskIOmm_ZN7GPTPart11ShowSummaryEijmax_size_ZNSt7__cxx1112basic_stringIcSt11char_traitsIcE
SaIcEE5eraseEmm__fmtflbool_S_dec_ZNKSt9basic_iosIcSt11char_traitsIcEE5widenEc_ZNK9__gnu_cxx17__nor
mal_iteratorIPKcNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEEEE4baseEv_ZNSo9_M_insertImEERSoT_
_M_pGetNumSecsPerTrackwcssp_n_ZNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE6assignEPKc_S_mov
e_Ios_Openmodetemp16_ZN6DiskIO18GetNumSecsPerTrackEv_ZN9__gnu_cxx13new_allocatorIcEC4ERKS1_G

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_capacityEm_ZN8PartType7AddTypeEtPKcS1_i_ZNSaIcEC4ERKS_setlocaleOpenForWrite_ZNKSt7__cxx112b
asic_stringIcSt11char_traitsIcESaIcEE7compareEPKc_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE7re
placeEN9__gnu_cxx17__normal_iteratorIPcS4_EES8_PKcm_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaI
cEE12_Alloc_hiderD4Ev_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE6assignEmcreplace_S_showbas
e_ZN8GUIDDataC4ERKNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEEE__state_S_oct_ZNSt7__cxx112
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7__cxx112basic_stringIcSt11char_traitsIcESaIcEE7replaceEmmRKS4__ZNSt7__cxx112basic_stringIcSt11char_
traitsIcESaIcEE6insertEmPKcm_ZN9__gnu_cxx17__normal_iteratorIPcNSt7__cxx112basic_stringIcSt11char_tra
itsIcESaIcEEEEC4ERKS1__ZN10Attributes16GetAttributeNameB5cxx11Ej_ZN10AttributesaSEm_ZNSt11char_tr
aitsIcE11eq_int_typeERKiS2_ZN7GPTPartaSERKS__S_select_on_copy_S_internal_Z14IsLittleEndianvGetNum
Heads_ZN6DiskIO12OpenForWriteERKNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEEEEAddType_M_cre
ate~BSDDData_ZNSt11char_traitsIcE4copyEPcPKcm_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE7re
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IcESaIcEE6insertEmPKc_ZN6DiskIO12MakeRealNameEvrfind_ZNK9__gnu_cxx17__normal_iteratorIPcNSt7__c
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112basic_stringIcSt11char_traitsIcESaIcEEaSEPkc_S_copy__rhs_S_scientificMBRType_ZN9__gnu_cxx24__num
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erator
&operator*operator+operator-
__gnu_debugwmemsetoperator<operator=btowcboolalphaAddAllTypesShowAttributesputwchar_S_showpos_ZN10
Attributes17DisplayAttributesEv_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEED4Ev_ZNKSt7__cxx11
12basic_stringIcSt11char_traitsIcESaIcEE16find_last_not_ofEPKcmcurrency_symboluuid_t_ZN9__gnu_cxx13ne
w_allocatorIcED4Evoperator|operator~to_char_type_ZN9__gnu_cxx14__alloc_traitsISAIcEE17_S_select_on_copy
ERKS1_wcsrchr_ZNKSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE13find_first_ofEcm_ZNKSt7__cxx11
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ith_stdiousigned
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stringIcSt11char_traitsIcESaIcEE12find_last_ofEPKcmmyDisk_ZN7BSDDData9ShowStateEv_ZN6DiskIO11OpenF
orReaderERKNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEEE_ZN7GPTPart7GetTypeEv__basewcsxfrm_Z
N9__gnu_cxx17__normal_iteratorIPKcNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEEEEpLE1_IO_lock_t
wcslenShowSummaryfloat_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEEpLERKS4__ZN9__gnu_cxx2
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ypeEt_Znamtm_zoneuint64_tfwscanfwcsftimeswap_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE6rbeg
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unctEPKcoperator==<char,
std::char_traits<char>, std::allocator<char>
>_ZN9__gnu_cxx17__normal_iteratorIPcNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEEEEC4Evsize_type

```

```

openForWrite_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE13_S_copy_charsEPcN9__gnu_cxx17__no
rml_iteratorIS5_S4_EES8_ATypeskipws_Unwind_Resumewriterreverse_iterator<__gnu_cxx::__normal_iterator
<char const*, std::__cxx11::basic_string<char, std::char_traits<char>, std::allocator<char>>> >
>_ZN10Attributes14ShowAttributesEj_IO_write_ptr__builtin_unwind_resumenegative_sign_ZNSt7__cxx112basi
c_stringIcSt11char_traitsIcESaIcEE7_M_dataEPc~basic_stringwscat_ZN9__gnu_cxx17__normal_iteratorIPcNSt7
__cxx112basic_stringIcSt11char_traitsIcESaIcEEEEpLElotherDisplayAttributeswestod_ZN6DiskIOC4Ev_ZStoR
RSt13_Ios_FmtflagsS__ZNKSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE6lengthEvZero_ZStaNRSt13_Io
s_FmtflagsS__ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE10_M_destroyEm_ZNK9__gnu_cxx13new
_allocatorIcE7addressERcallTypes_ZNK8PartType5ValidEt__size_ZN7GTPPart11GetTypeNamesB5cxx11Ev_ZN
KSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE6beginEv_ZN7BSSDataD4Ev_ZNKSt7__cxx112basic_st
ringIcSt11char_traitsIcESaIcEE7compareEmmRKS4_mm_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcE
E7replaceEN9__gnu_cxx17__normal_iteratorIPcS4_EES8_RKS4_rightclearuserFilename_ZNSt11char_traitsIcE2t
ERKcS2_wcscspn_S_end__ioinit_ZN9__gnu_cxx24__numeric_traits_integerIcE5__maxEsectorOne_ZNKSt7__cx
x112basic_stringIcSt11char_traitsIcESaIcEE4findEPKcmm_size_t_ZSt3decRSt8ios_baseoperator!=__countuint8_t
_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE7_S_moveEPcPKcm_ZNSaIcED4Ev__const_iteratordest
royPartType_ZN10Attributes5SetupEv_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE9_S_assignEPcmc
~Init_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE6appendERKS4__M_current_M_widen_init_IO_sa
ve_base_ZN6DiskIO12GetBlockSizeEvwctobmon_thousands_sepsectorEndfwprintfAsString_M_assign_ZN9__gnu
_cxx13new_allocatorIcE9constructEPcRKc_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE6appendEPK
c_ZNKSt5ctypeIcE13_M_widen_initEv__wchb_ZN7GTPPart14GetDescriptionB5cxx11Ev_ZN9__gnu_cxx17__no
rml_iteratorIPKcNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEEEEppEifind_last_not_of_ZNSt7__cxx11
2basic_stringIcSt11char_traitsIcESaIcEE7replaceEN9__gnu_cxx17__normal_iteratorIPcS4_EES8_S8_S_S__bool
alpha~PartTypebigEnd_ZNSt9basic_iosIcSt11char_traitsIcEE8setstateESt12_Ios_IostatelabelFirstLBAoperator<<
<std::char_traits<char>
>vfwscanfwint_t_ZNKSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE17find_first_not_ofERKS4_mvfwprint
f__digits_ZNSt9basic_iosIcSt11char_traitsIcEE4fillEcsignature2_S_left__pad2rbeginwestoull__cxa_atexit_ZNSt8i
os_base4InitD4Evfill_ZNK8PartType12ShowAllTypesEiBSDValidity_S_ios_fmtflags_endwmemmoveattributesfp
utwc_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE9push_backEc__normal_iterator<char*,
std::__cxx11::basic_string<char, std::char_traits<char>, std::allocator<char>>> >
>fputws_ZNKSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE8capacityEv_ZNK9__gnu_cxx17__normal_ite
ratorIPcNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEEEEptEv_ZNKSt7__cxx112basic_stringIcSt11char_
traitsIcESaIcEE12find_last_ofEPKcmm_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE7replaceEN9__g
nu_cxx17__normal_iteratorIPcS4_EES8_NS6_IPKcS4_EESB__ZN7GTPPart11SetFirstLBAEmbaddbit_S_badbit_C
ontainerweschr_ZNK9__gnu_cxx17__normal_iteratorIPcNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEEE
EixEifind_S_out_nextget_allocator_S_right_ZN7BSSData5AsGPTEibasic_ostream<char, std::char_traits<char>
>_M_limit_S_basefielddecimal_point_ZN6DiskIO8DiskSyncEv_ZStcoSt13_Ios_Fmtflags_Atomic_word_ZNSt7__
cxx112basic_stringIcSt11char_traitsIcESaIcEE6insertEmRKS4_mm_ZNSt7__cxx112basic_stringIcSt11char_trai
tsIcESaIcEE13_M_set_lengthEm_ZNK9__gnu_cxx13new_allocatorIcE8max_sizeEvthis_ZNK9__gnu_cxx17__nor
mal_iteratorIPcNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEEEE4baseEv_ZNSt7__cxx112basic_stringIc
St11char_traitsIcESaIcEE6insertEN9__gnu_cxx17__normal_iteratorIPcS4_EEmc_ZStanSt13_Ios_FmtflagsS__open
mode_ZNSt11char_traitsIcE6lengthEPKc_ZNSt11char_traitsIcE12to_char_typeERKi_ZN8GUIDDataD4Ev__thro
w_bad_castGetFirstLBAfrac_digitsiterator_traits<char*>_M_construct_aux_2_ZNK7GTPPart12GetLengthLBAEv
operator[]_ZNSt11char_traitsIcE3eofEvallocator<char>_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE1
4_M_replace_auxEmmmlabelLastLBA_ZN9__gnu_cxx17__normal_iteratorIPKcNSt7__cxx112basic_stringIcSt1
1char_traitsIcESaIcEEEEC4ERKS2__ZNKSt5ctypeIcE5widenEc_ZStorSt13_Ios_FmtflagsS__wchar_t_allocator_typ
e_ZN9__gnu_cxx24__numeric_traits_integerIiE5__maxE__normal_iterator<char
const*, std::__cxx11::basic_string<char, std::char_traits<char>, std::allocator<char>>> >
>GetFirstSectorTempRecordsswscanf__numeric_traits_integer<short

```

```

int>wcsncpy_S_skipws_ZNKSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE16_M_get_allocatorEv_S_hex_
ZNK7GPTPart1tERKS__ZNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE13_S_copy_charsEPcPKcS7_na
men_sep_by_space_sbuf_ZNSt11char_traitsIcE6assignERcRKcendSectorSetFirstLBA_IO_save_endwprintftm_min
_M_is_localchar_traits<char>SetLastLBA_ZN9__gnu_cxx14__alloc_traitsISAIcEE10deallocateERS1_Pcmp_cs_pr
ecedes_GLOBAL__sub_I__ZN7BSDDataC2Evwscmp_ZNKSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE
7replaceEmmRKS4_mm_ZNK6DiskIO7GetNameB5cxx11EvIsSizedForMBRstdout~DiskIO_ZN7GPTPart11Show
DetailsEjfp_offset_ZN7GPTPart13SetUniqueGUIDE8GUIDDatambsrtowcsmon_groupinggp_offsetDeleteSpacesm
ovepointer_ZNKSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE9_M_appendEPKcm_ZNKSt7__cxx1112basic_
stringIcSt11char_traitsIcESaIcEEC4EPKcRKS3_Attributesstreamsize__numeric_traits_integer<long
unsigned
int>tm_ydaymbsinitfind_first_not_ofsizetypeReverseBytes_ZNKSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcE
EaSERKS4_typedef__va_list_tag
__va_list_tagshort unsigned int_ZN9__gnu_cxx13new_allocatorIcE8allocateEmPKvsigned
char_ZN8PartTypeC4Ev_ZNKSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE9_M_mutateEmmPKcmstream
GetDescription_ZNK9__gnu_cxx17__normal_iteratorIPKcNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE
EEdeEvgoodbitSetTypeptrdiff_tbinaryswprintf_ZN7GPTPart13DoTheyOverlapERKS__M_replace_aux_ZNKSt7__
_cxx1112basic_stringIcSt11char_traitsIcESaIcEE4findEcm_ZN6DiskIO11GetNumHeadsEv_ZN6DiskIO4ReadEPv
i__maskmy_uuid_t_ZN6DiskIO8DiskSizeEPIaddressstm_wday__off64_twscpyresizevswprintf_ZNKSt7__cxx1112b
asic_stringIcSt11char_traitsIcESaIcEEC4ERKS4_mmRKS3__ZN6DiskIO14IsOpenForWriteEvputwc_ZNKSt7__cxx
1112basic_stringIcSt11char_traitsIcESaIcEE13_M_local_dataEv_IO_read_basewiden_offsetstringstate_IO_buf_en
d_ZNKSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE8_M_checkEmPKc_ZNKSt7__cxx1112basic_stringIc
St11char_traitsIcESaIcEE15_M_check_lengthEmmPKcmbstate_t_ZN9__gnu_cxx17__normal_iteratorIPcNSt7__cx
x1112basic_stringIcSt11char_traitsIcESaIcEEEEmIEln_sign_posnClosewscrtombs_M_eraseoperator&=_S_in~new
_allocatorsectorSize_ZNSt11char_traitsIcE4moveEPcPKcm_mode__pf_ZNKSt7__cxx1112basic_stringIcSt11char_tr
aitsIcESaIcEE10_M_replaceEmmPKcm_IO_write_base_ZNKSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcE
E13_M_local_dataEv_M_data__wch_ZNSt11char_traitsIcE6assignEPcmctz_dsttime__dso_handle_ZNKSt7__cxx1
112basic_stringIcSt11char_traitsIcESaIcEE5rfindEPKcmm_ZN6DiskIO12OpenForWriteEv__max_ZNKSt7__cxx11
12basic_stringIcSt11char_traitsIcESaIcEE7reserveEmGUIDTypeappend_ZNKSt7__cxx1112basic_stringIcSt11char_
traitsIcESaIcEE6resizeEmcvswscanf_ZNKSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE13find_first_ofER
KS4_mtm_mon_S_failbit~_Alloc_hidercopy_ZStneIcSt11char_traitsIcESaIcEEbRKNS7__cxx1112basic_stringIT
_T0_T1_EEPKS5_eq_int_type_ZN7BSDData9GetLengthEi_ZN7GPTPart13IsSizedForMBREv_ZNKSt9basic_iosI
cSt11char_traitsIcEE7rdstateEv_ZN8GUIDDataC4EPKcGetNamedo_widenlong
int_ZN9__gnu_cxx14__alloc_traitsISAIcEE8allocateERS1_m__lhs_ZNK8GUIDDataneERKS__ZNK9__gnu_cxx1
3new_allocatorIcE7addressERKcvwprintfto_int_type_IO_markerint_p_sign_posn_S_uppercase_ZN8GUIDDataaaS
ERKS__ZNKS7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE16find_last_not_ofERKS4_mtm_year_ZNK7G
PTPart10GetHexTypeEv/nobackup/ambtripa/h/806/build/satori/target-n9000/bitbake_build/tmp/work/x86_64-wrs-
linux/gptfdisk/0.8.10-r0/gptfdisk-
0.8.10GUIDDataawscanf_ZN7GPTPart13GetAttributesEv_ZN7GPTPart10SetLastLBAEm_ZNKSt7__cxx1112basic
_stringIcSt11char_traitsIcESaIcEE13find_first_ofEPKcm_Ios_Iostate__numeric_traits_integer<char>_ZN7GPTPart
7SetNameERKNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEEEEGetLengthLBA__mbstate_t_ZNKSt7__cx
x1112basic_stringIcSt11char_traitsIcESaIcEE7compareEmmRKS4_mon_decimal_point_ZNSt8ios_base4setfES13
_Ios_FmtflagsS0__ZNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE6insertEmmcGetAttributesuint32_t_Z
NSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEEixEmGetNumParts_ZNK9__gnu_cxx17__normal_iteratorIP
cNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEEEEPIEl_ZNKSt7__cxx1112basic_stringIcSt11char_traitsIc
ESaIcEE4dataEv_ZN8GUIDData4ZeroEv_TraitsuniqueGUIDDiskIObasic_ios<char,
std::char_traits<char>
>__ostream_type_ZNKSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE6assignERKS4__ZNSt7__cxx1112basi
c_stringIcSt11char_traitsIcESaIcEE6appendERKS4_mm_ZNKSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcE

```

```

E17find_first_not_ofEcm_ZN6DiskIOD4Evreserve_ZN7BSDData14DisplayBSDDataEvShowDetailsDiskSize_ZN
K8PartType9UTypeNameB5cxx11Ev_ZNKSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE12find_last_ofER
KS4_m_ZNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE18_M_construct_aux_2Emcp_sep_by_spaceBSD
Data~GUIDData_ZN7BSDDataC2Evlong unsigned
int_S_on_swap_ZNSt11char_traitsIcE7compareEPKcS2_mShowAllTypesoperator+=cerr_Alloc_ZNKSt7__cxx111
2basic_stringIcSt11char_traitsIcESaIcEE7_M_dataEvoperator++bsd.cc_M_datapluswctype_t_ZN7GPTPart6IsUsed
Evchar_ZNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE4swapERS4_push_backwcstoldcoutstdininsertGet
AttributeName__static_initialization_and_destruction_0_ZN10AttributesC4Ev_ZN7BSDData11GetNumPartsEvnu
mAttrs_ZN7GPTPartC4Ev_S_ios_openmode_end_IO_buf_base_ZN7BSDData14GetFirstSectorEioperator--
ios_baseListAttributes_ZNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEEC4ERKS4_mmoperator-
=operator-
>_ZNKSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE4findERKS4_m_ZN8PartTypeC4ERK8GUIDDataGe
tUniqueGUID_IO_read_endSetUniqueGUID_ZN8PartTypeD4Evpcpg_IO_FILEWmemchroperator
new
[]_ZN10Attributes14ListAttributesEv_S_refcounttm_hourbufferlastType_M_append_ZN6DiskIO11OpenForReadE
vwcsncmpIsOpenForWrite__min_ZN9__gnu_cxx17__normal_iteratorIPKcNS7__cxx1112basic_stringIcSt11char_
traitsIcESaIcEEEEC4Ev_ZNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE5clearEvconst_reverse_iterorb
asic_string<char, std::char_traits<char>, std::allocator<char>
>getwchar_ZN9__gnu_cxx17__normal_iteratorIPKcNS7__cxx1112basic_stringIcSt11char_traitsIcESaIcEEEEppE
vSetupint_n_sign_posnfixed_ZNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE9_M_assignERKS4_tm_md
ay_ZNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEEC4Ev_S_compare_ZN7GPTPart21SetDefaultDescripti
onEvc_strconst_reference__pad1__pad3__pad4__pad5_ZN9__gnu_cxx13new_allocatorIcEC4Ev__numeric_traits_
integer<long
int>_ZNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE6assignERKS4_mmmwmemcmpChangeAttributesnew
_allocator<char>_ZN6DiskIO5CloseEv_ZN8GUIDData12DeleteSpacesENS7__cxx1112basic_stringIcSt11char_tr
aitsIcESaIcEEERandomizeUniqueGUID_ZN6DiskIO6IsOpenEvfoundSig_markers_posShowStatetrunc_M_length_
ZNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEEpLEc_ZN6DiskIO4SeekEm_ZNSt8ios_base5widthElsefff
ailbit_M_string_lengthint_n_cs_precedeserasedoubleValid_ZN8PartType11AddAllTypesEv__FILE_ZSt13__check
_facetISt5ctypeIcEERKT_PS3__ZNKSt9basic_iosIcSt11char_traitsIcEE4fillEv_ZNSt7__cxx1112basic_stringIcSt1
1char_traitsIcESaIcEE13_S_copy_charsEPcN9__gnu_cxx17__normal_iteratorIPKcS4_EESA_ZSt16__ostream_in
sertIcSt11char_traitsIcEERSt13basic_ostreamIT_TO_ES6_PKS3_1_M_local_buf_ZNK9__gnu_cxx17__normal_iter
atorIPKcNS7__cxx1112basic_stringIcSt11char_traitsIcESaIcEEEEptEvMakeRealNameGetLastLBA_Iterator__int
32_trdstatefragrealFilenameSetNameedata_ZNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE7replaceEN9__
gnu_cxx17__normal_iteratorIPcS4_EES8_mcwvertomb__check_facet<std::ctype<char>
>__value_S_copy_charsnumInstances_ZN9__gnu_cxx17__normal_iteratorIPcNS7__cxx1112basic_stringIcSt11ch
ar_traitsIcESaIcEEEEppEi_ZN9__gnu_cxx17__normal_iteratorIPcNS7__cxx1112basic_stringIcSt11char_traitsIcE
SaIcEEEEppEv_ZNKSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE16find_last_not_ofEcm_ZN9__gnu_cx
x17__normal_iteratorIPKcNS7__cxx1112basic_stringIcSt11char_traitsIcESaIcEEEEmmEifsType_ZNK8GUIDDat
a8AsStringB5cxx11Ev_M_insert<long unsigned
int>_ZSt16__throw_bad_castv_M_allocated_capacityseekdirwidthbaseleftpositive_sign_ZSt4cerr_ZNSt7__cxx111
2basic_stringIcSt11char_traitsIcESaIcEE6insertEN9__gnu_cxx17__normal_iteratorIPcS4_EEc_ZN8GUIDDataaSE
PKc_S_goodbit_ZN9__gnu_cxx17__normal_iteratorIPKcNS7__cxx1112basic_stringIcSt11char_traitsIcESaIcEEEE
EmIEIGetHexTypeGetBlockSize_ZNSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE4rendEv_ZNKSt7__cxx
1112basic_stringIcSt11char_traitsIcESaIcEE13get_allocatorEv_ZNSt11char_traitsIcE7not_eofERKi_S_ios_seekdir
_end_ZNKSt7__cxx1112basic_stringIcSt11char_traitsIcESaIcEE7compareEmmPKcIsOpenemptyconstruct_ZN7G
PTPart13SetAttributesEm_ZN7GPTPart14ShowAttributesEj_ZN7GPTPart13SetAttributesEvvwscanf_M_dispose_
ZN9__gnu_cxx24__numeric_traits_integerIiE5__minEpartitionslong

```

```

long unsigned
int_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE7replaceEN9__gnu_cxx17__normal_iteratorIPcS4_EE
S8_PKcoffsetmbtowc_cur_column_ZNKSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE4rendEv_ZNSt7__c
xx112basic_stringIcSt11char_traitsIcESaIcEE5beginEv_ZN9__gnu_cxx24__numeric_traits_integerIIE5__minEsh
owbaseSetAttributes_S_unitbuf_ZNK9__gnu_cxx17__normal_iteratorIPKcNS7__cxx112basic_stringIcSt11char
traitsIcESaIcEEEEixElatNames_S_truncwmemcpy_ZNSt11char_traitsIcE11to_int_typeERKcInifmtflagsReversePa
rtBytes_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE9_M_createERmm_ZN7BSDDDataC4Ev_ZN7GP
TPart10ChangeTypeEvIsLittleEndianwcsncatm_gmtoffRandomize_ZNSt7__cxx112basic_stringIcSt11char_traits
IcESaIcEE6resizeEm_ZN8PartTypeC4ERKS__ZN9__gnu_cxx24__numeric_traits_integerIsE5__minE_IO_backup
_baseint_n_sep_by_space_IO_read_ptr_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE5eraseEN9__gnu
_cxx17__normal_iteratorIPcS4_EES8__ZN8GUIDDataC4ERKS__M_mutate_ZN7GTPPart16ReversePartBytesEv
_ZN10Attributes19OperateOnAttributesEjRKNS7__cxx112basic_stringIcSt11char_traitsIcESaIcEEES7_internalp
artitionTypeDoTheyOverlapfirstLBAGetType_ZNSaIcEC4EvGetUTypeName_ZN7GTPPart12GetUTypeNameB5c
xx11Evfgetwc_ZN9__gnu_cxx14__alloc_traitsISaIcEE7destroyERS1_PcReadBSDDData_M_capacity_ZN9__gnu_c
xx14__alloc_traitsISaIcEE10_S_on_swapERS1_S3_GTPPartfgetws_ZNKSt7__cxx112basic_stringIcSt11char_trai
tsIcESaIcEEixEmlong
doubleAsGPTbasic_stringtimezone_ZNKSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE5rfindEcm_ZN6Dis
kIO5WriteEPvi_ZNKSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE8max_sizeEv_ZNKSt7__cxx112basic
_stringIcSt11char_traitsIcESaIcEE7compareERKS4__normal_iterator_old_offset__in_chrg_ZN7GTPPart19Rando
mizeUniqueGUIDEvwscollshowposwctrans_tretvalp_sign_posn_ZN10AttributesC4Em_Facet_ZN9__gnu_cxx14__
_alloc_traitsISaIcEE8max_sizeERKS1_comparelong
long
int__wide_ZNKSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE17find_first_not_ofEPKcmtable_size_flags2u
uidDatafragSize_ZNK9__gnu_cxx17__normal_iteratorIPcNS7__cxx112basic_stringIcSt11char_traitsIcESaIcEEEE
EmiEl_ZNKSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE11_M_is_localEv__ch_S_beg~GTPParteofbitDis
playBSDDData_ZNKSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE5c_strEv_ZNSt7__cxx112basic_stringIc
St11char_traitsIcESaIcEE12_M_constructEmconst_iteratoroperator delete
[]_ZNSt8ios_base4InitC4Ev_S_adjustfield_ZN7BSDDData7GetTypeEiungetwc_ZN7BSDDData16ReverseMetaBytes
Ev_Z12ReverseBytesPvifind_last_of_ZNKSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE5rfindEPKcmbstd_
invalid_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE2atEmn_cs_precedes_ZNSt7__cxx112basic_stri
ngIcSt11char_traitsIcESaIcEE7_S_copyEPcPKcm_ZN7GTPPart14BlankPartitionEv_ZN8PartTypeeaSERKNS7__c
xx112basic_stringIcSt11char_traitsIcESaIcEEEE_Ios_SeekdirBSDRecord_CharT_ZNK9__gnu_cxx17__normal_ite
ratorIPKcNS7__cxx112basic_stringIcSt11char_traitsIcESaIcEEEEmiEl_ZNSt7__cxx112basic_stringIcSt11char
_traitsIcESaIcEE9_M_lengthEmoperator<<_ZN7BSDDData11IsDisklabelEvreference_ZNSt7__cxx112basic_string
IcSt11char_traitsIcESaIcEE7replaceEmmPKcOpenForRead_ZNKSt7__cxx112basic_stringIcSt11char_traitsIcESa
IcEE4findEPKcm_ZNKSt5ctypeIcE8do_widenEc_M_replace_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESa
IcEE10_S_compareEmm_S_assign_S_floatfield_Ios_Fmtflagsfloatfieldoperator==_old_M_disjunct_ZN10Attribut
es16ChangeAttributesEv__is_signedoperator
deleteunsigned
intrelative_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEEpLEPKc__cxx11_ZN8GUIDDataC4EvChange
Type_ZNKSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE12find_last_ofEcm_ZNKSt7__cxx112basic_strin
gIcSt11char_traitsIcESaIcEE2atEm_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE5eraseEN9__gnu_cx
x17__normal_iteratorIPcS4_EEisOpen_S_binshort
intIsDisklabelbeginint_p_cs_precedes_ZNSt7__cxx112basic_stringIcSt11char_traitsIcESaIcEE6appendEmc_M_s
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1.249 grep 2.21 r0.0

1.249.1 Available under license :

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Version 3, 29 June 2007

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That's all there is to it!

inotify cron system

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Version 2, June 1991

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```
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```

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

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

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1.254 inetutils-rsh 1.9.4 r0.0

1.254.1 Available under license :

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Version 3, 29 June 2007

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```
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```

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1.261 binutils 2.25.1 r0.0

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```

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

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+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith

Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation

that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed

for everyone's
free use or not licensed at all.

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

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

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

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

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

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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

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

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

distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

the scope of this License.

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

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

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

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

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

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

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

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials

specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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

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

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

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impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

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

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

Here is a sample; alter the names:

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

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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Preamble

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether

gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps:

(1)

assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand

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

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

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this

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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

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1. Source Code.

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

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major

Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

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and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

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You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is

released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the

product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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

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

@item

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

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

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

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.

(Executables containing this object code plus portions of the
Library will still fall under Section 6.)

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

@item

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

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

@enumerate a

@item

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

@item

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

@item

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

@item

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

@item

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

@end enumerate

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

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

@item

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

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@item

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

@item

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

@end enumerate

@item

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any

patents or other property right claims
or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

@item

If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.

In such case, this License incorporates the limitation as if
written in the body of this License.

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Each version is given a distinguishing version number. If the Library
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@end enumerate

@iftex

@heading END OF TERMS AND CONDITIONS

@end iftex

@ifinfo

@center END OF TERMS AND CONDITIONS

@end ifinfo

@page

@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the

``copyright" line and a pointer to where the full notice is found.

@smallexample

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

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

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

You should

have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

@end smallexample

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

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

@smallexample

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

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

Ty Coon, President of Vice

@end smallexample

That's all there is to it!

1.262 file 5.24 r0.0

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1.263 libc 2.22 r0.0

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@center Version 2.1, February 1999

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

@c hence no sectioning command or @node.

@display

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

@end display

@subheading Preamble

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

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

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

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

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

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

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

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

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

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

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

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

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

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

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0

@item

This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License"). Each licensee is addressed as ``you".

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

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

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

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

@item

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

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

@item

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

@enumerate a

@item

The modified work must itself be a software library.

@item

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

@item

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

@item

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

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

root function must still compute square roots.)

@end enumerate

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

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

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.

@item

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

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

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

@item

You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and

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

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

@item

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

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

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

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

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

@item

As an exception to the Sections above, you may also combine or link a ``work that uses the Library'' with the Library to produce a

work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

@enumerate a

@item

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

@item

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

@item

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

@item

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

@item

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

@end enumerate

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

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

@item

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

@enumerate a

@item

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

@item

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

@end enumerate

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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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0.1.8+git0+53274f0875 r0.0

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1.273 nfs-utils 0.25 r0.0

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1.274 libtasn 4.5 r0.0

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Any executables

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1.277 libxml2 2.9.2 r0.0

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1.278 lighttpd 1.4.36 r0.0

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1.279 log-rotate 3.9.1 r0.0

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```
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```

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

```
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1.280 Isof 4.89 r0.0

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```

```
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```
/*
 * regex.h -- regular expression definitions for lsof
 *
 * This header file is used only when the dialect has no POSIX-conformant
 * regular expression function set.  When that is the case, the dialect's
 * machine.h will define USE_LIB_REGEX.
 *
 * When the dialect has a POSIX-conformant regular expression function set,
 * USE_LIB_REGEX is not defined and this header file #include's <regex.h>.
 *
 * V. Abell <abe@purdue.edu>
 * Purdue University
 */
```

```
/*
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 *
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 *
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*/

```
#ifdef USE_LIB_REGEX
```

```
/*
```

```
* This section comes from GLIBC 2.2. It is used only when the dialect  
* has no POSIX-conformant regular expression function set. When that is  
* the case, the dialect's machine.h will define USE_LIB_REGEX.  
*/
```

```
/* Definitions
```

```
for data structures and routines for the regular  
expression library, version 0.12.
```

```
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```

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Boston, MA 02111-1307, USA. */

```
/*
 * dnode1.c - AIX AFS support
 */

/*
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 *
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```

1.281 lvm2 2.02.125 r0.0

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```
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`.. _history-and-license:`

History and License

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 <https://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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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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Mersenne Twister

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

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Sockets

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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MD5 message
digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.

1999-11-04 lpd Edited

comments slightly for automatic TOC extraction.

1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.

1999-05-03 lpd Original version.

Asynchronous socket services

The :mod:`asynchat` and :mod:`asyncore` modules contain the following notice::

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

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Select kqueue

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- * by Eric Young (eay@cryptsoft.com).

- * The implementation was written so as to conform with Netscapes SSL.

*

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

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

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

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

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

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

threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may distribute the object

code for the work under the terms of Section 6.

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

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

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

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

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Version 2.1, February 1999

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

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

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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.

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

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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1.292 strace 4.1 r0.0

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1.293 sudo 1.8.22 r0.0

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

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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```
#!/bin/sh
#
# update-rc.d Update the links in /etc/rc[0-9S].d/
#
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```


1.296 util-linux 2.26.2 r0.0

1.296.1 Available under license :

Initialize empty image

f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table

57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

Create 1st primary partition

ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

Device	Boot	Start	End	Sectors	Size	Id	Type
--------	------	-------	-----	---------	------	----	------

<removed>1		2048	4095	2048	1M	83	Linux
------------	--	------	------	------	----	----	-------

Create 2st primary partition

1bebf87248e05d6e4e62b749da65d023 bsd.img

Set 2nd partition type

2d8e8dff51a88a045db233418dd73fbe

bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

```
Device  Boot Start  End Sectors Size Id Type
<removed>1    2048 4095   2048  1M 83 Linux
<removed>2    4096 20479 16384   8M a5 FreeBSD
```

Create default BSD

2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----

Welcome to fdisk <removed>.

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors

Geometry: 255 heads, 63 sectors/track, 1 cylinders

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel

type: bsd

partitions: 4

```
Slice Start  End Sectors  Size Type  Fsize Bsize Cpg
```

```
c   4096 20479 16384   8M unused   0   0   0
```

```
d     0 16064 16065  7.9M unused   0   0   0
```

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

Welcome to fdisk <removed>.

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: BSD
partitions: 4

Slice	Start	End	Sectors	Size	Type	Fsize	Bsize	Cpg
a	4096	6144	2049	1M	4.2BSD			
	0	0	0					
c	4096	20479	16384	8M	unused	0	0	0
d	0	16064	16065	7.9M	unused	0	0	0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

0	unused	5	4.1BSD	9	4.4LFS	d	boot
1	swap	6	Eighth Edition	a	unknown	e	ADOS
2	Version 6	7	4.2BSD	b	HPFS	f	HFS
3	Version 7	8	MS-DOS	c	ISO-9660	10	AdvFS
4	System V						

Command (m for help):

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Version 2.1, February 1999

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1.297 libosspuuid 1.6.2 r2.0

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**
** uuid.c: PostgreSQL Binding (C part)
*/

/* own headers */
#include "uuid.h"

/* PostgreSQL (part 1/2) headers */
#include "postgres.h"

/* system headers */
#include <string.h>

/* PostgreSQL (part 2/2) headers */
#include "fmgr.h"
#include "lib/stringinfo.h"
#include "access/hash.h"

/* PostgreSQL module magic cookie
(PostgreSQL >= 8.2 only) */
#ifdef PG_MODULE_MAGIC
PG_MODULE_MAGIC;
#endif

/* internal UUID datum data structure */
typedef struct {
    unsigned char uuid_bin[UUID_LEN_BIN];
} uuid_datum_t;

/* forward declarations */
Datum pg_uuid_in (PG_FUNCTION_ARGS);
Datum pg_uuid_out (PG_FUNCTION_ARGS);
Datum pg_uuid_recv (PG_FUNCTION_ARGS);

```



```

Datum
pg_uuid_send (PG_FUNCTION_ARGS);
Datum pg_uuid_hash (PG_FUNCTION_ARGS);
Datum pg_uuid_make (PG_FUNCTION_ARGS);
Datum pg_uuid_eq (PG_FUNCTION_ARGS);
Datum pg_uuid_ne (PG_FUNCTION_ARGS);
Datum pg_uuid_lt (PG_FUNCTION_ARGS);
Datum pg_uuid_gt (PG_FUNCTION_ARGS);
Datum pg_uuid_le (PG_FUNCTION_ARGS);
Datum pg_uuid_ge (PG_FUNCTION_ARGS);
Datum pg_uuid_cmp (PG_FUNCTION_ARGS);

/* API function: uuid_in */
PG_FUNCTION_INFO_V1(pg_uuid_in);
Datum pg_uuid_in(PG_FUNCTION_ARGS)
{
    char *uuid_str;
    uuid_datum_t *uuid_datum;
    uuid_rc_t rc;
    uuid_t *uuid;
    void *vp;
    size_t len;

    /* sanity check input argument */
    if ((uuid_str = PG_GETARG_CSTRING(0)) == NULL)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("invalid UUID string")));
    if ((len = strlen(uuid_str)) != UUID_LEN_STR)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("invalid UUID string length %d (expected
%d)", (int)len, UUID_LEN_STR)));

    /* import as string representation */
    if ((rc = uuid_create(&uuid)) != UUID_RC_OK)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("failed to create UUID object: %s", uuid_error(rc))));
    if ((rc = uuid_import(uuid, UUID_FMT_STR, uuid_str, len)) != UUID_RC_OK) {
        uuid_destroy(uuid);
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("failed to import UUID string representation: %s", uuid_error(rc))));
    }

    /* export as binary representation */
    if ((uuid_datum = (uuid_datum_t *)palloc(sizeof(uuid_datum_t))) == NULL) {
        uuid_destroy(uuid);
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("failed to allocate UUID datum")));
    }
}

```

```

vp = &(uuid_datum->uuid_bin);
len = sizeof(uuid_datum->uuid_bin);
if ((rc = uuid_export(uuid, UUID_FMT_BIN, &vp, &len)) != UUID_RC_OK) {
    uuid_destroy(uuid);
    ereport(ERROR,
(errcode(ERRCODE_DATA_EXCEPTION),
    errmsg("failed to export UUID binary representation: %s", uuid_error(rc)))));
}
uuid_destroy(uuid);

/* return UUID datum */
PG_RETURN_POINTER(uuid_datum);
}

/* API function: uuid_out */
PG_FUNCTION_INFO_V1(pg_uuid_out);
Datum pg_uuid_out(PG_FUNCTION_ARGS)
{
    uuid_datum_t *uuid_datum;
    uuid_rc_t rc;
    uuid_t *uuid;
    char *uuid_str;
    void *vp;
    size_t len;

    /* sanity check input argument */
    if ((uuid_datum = (uuid_datum_t *)PG_GETARG_POINTER(0)) == NULL)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("invalid UUID datum")));

    /* import as binary representation */
    if ((rc = uuid_create(&uuid)) != UUID_RC_OK)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("failed to create UUID object: %s", uuid_error(rc))));
    if ((rc = uuid_import(uuid, UUID_FMT_BIN, uuid_datum->uuid_bin, sizeof(uuid_datum->uuid_bin)) !=
UUID_RC_OK) {

        uuid_destroy(uuid);
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("failed to import UUID binary representation: %s", uuid_error(rc))));
    }

    /* export as string representation */
    len = UUID_LEN_STR+1;
    if ((vp = uuid_str = (char *)palloc(len)) == NULL) {
        uuid_destroy(uuid);
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("failed to allocate UUID string")));
    }
}

```

```

}
if ((rc = uuid_export(uuid, UUID_FMT_STR, &vp, &len)) != UUID_RC_OK) {
    uuid_destroy(uuid);
    ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
        errmsg("failed to export UUID string representation: %s", uuid_error(rc))));
}
uuid_destroy(uuid);

/* return UUID string */
PG_RETURN_CSTRING(uuid_str);
}

/* API function: uuid_recv */
PG_FUNCTION_INFO_V1(pg_uuid_recv);
Datum pg_uuid_recv(PG_FUNCTION_ARGS)
{
    StringInfo uuid_internal;
    uuid_datum_t *uuid_datum;

    /* sanity check input argument
    */
    if ((uuid_internal = (StringInfo)PG_GETARG_POINTER(0)) == NULL)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("invalid UUID StringInfo object")));
    if (uuid_internal->len != UUID_LEN_BIN)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("invalid UUID binary length %d (expected %d)", uuid_internal->len, UUID_LEN_BIN)));

    /* import as binary representation */
    if ((uuid_datum = (uuid_datum_t *)palloc(sizeof(uuid_datum_t))) == NULL)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("failed to allocate UUID datum")));
    memcpy(uuid_datum->uuid_bin, uuid_internal->data, uuid_internal->len);

    /* return UUID datum */
    PG_RETURN_POINTER(uuid_datum);
}

/* API function: uuid_send */
PG_FUNCTION_INFO_V1(pg_uuid_send);
Datum pg_uuid_send(PG_FUNCTION_ARGS)
{
    uuid_datum_t *uuid_datum;
    bytea *uuid_bytea;

    /* sanity check input argument */
    if ((uuid_datum =

```

```

(uuid_datum_t *)PG_GETARG_POINTER(0)) == NULL)
    ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
        errmsg("invalid UUID datum")));

/* export as binary representation */
if ((uuid_bytea = (bytea *)palloc(VARHDRSZ + UUID_LEN_BIN)) == NULL)
    ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
        errmsg("failed to allocate UUID bytea")));
#if defined(SET_VARSIZE) /* PostgreSQL >= 8.3 */
    SET_VARSIZE(uuid_bytea, VARHDRSZ + UUID_LEN_BIN);
#else
    uuid_bytea->vl_len = VARHDRSZ + UUID_LEN_BIN;
#endif
memcpy(uuid_bytea->vl_dat, uuid_datum->uuid_bin, UUID_LEN_BIN);

/* return UUID bytea */
PG_RETURN_BYTEA_P(uuid_bytea);
}

/* API function: uuid_make */
PG_FUNCTION_INFO_V1(pg_uuid_make);
Datum pg_uuid_make(PG_FUNCTION_ARGS)
{
    uuid_t *uuid;
    uuid_t *uuid_ns;
    uuid_rc_t rc;
    int version;
    unsigned int mode = 0;
    uuid_datum_t *uuid_datum;
    char *str_ns;
    char *str_name;
    void *vp;
    size_t len;

    /* sanity
    check input argument */
    version = (int)PG_GETARG_INT32(0);
    switch (version) {
        case 1: mode = UUID_MAKE_V1; break;
        case 3: mode = UUID_MAKE_V3; break;
        case 4: mode = UUID_MAKE_V4; break;
        case 5: mode = UUID_MAKE_V5; break;
        default:
            ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
                errmsg("invalid UUID version %d (expected 1, 3, 4 or 5)", version)));
    }
    if ( ((mode & (UUID_MAKE_V1|UUID_MAKE_V4)) && PG_NARGS() != 1)
        || ((mode & (UUID_MAKE_V3|UUID_MAKE_V5)) && PG_NARGS() != 3))

```

```

ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
               errmsg("invalid number (%d) of arguments", PG_NARGS())));

/* make a new UUID */
if ((rc = uuid_create(&uuid)) != UUID_RC_OK)
    ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
                  errmsg("failed to create UUID object: %s", uuid_error(rc))));
if (version == 3 || version == 5) {
    if ((str_ns = PG_GETARG_CSTRING(1))
    == NULL)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
                        errmsg("invalid namespace UUID string")));
    if ((str_name = PG_GETARG_CSTRING(2)) == NULL)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
                        errmsg("invalid name string")));
    if ((rc = uuid_create(&uuid_ns)) != UUID_RC_OK)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
                        errmsg("failed to create UUID namespace object: %s", uuid_error(rc))));
    if ((rc = uuid_load(uuid_ns, str_ns)) != UUID_RC_OK) {
        if ((rc = uuid_import(uuid_ns, UUID_FMT_STR, str_ns, strlen(str_ns))) != UUID_RC_OK)
            ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
                            errmsg("failed to import UUID namespace: %s", uuid_error(rc))));
    }
    if ((rc = uuid_make(uuid, mode, uuid_ns, str_name)) != UUID_RC_OK) {
        uuid_destroy(uuid);
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
                        errmsg("failed to make v%d UUID: %s", version, uuid_error(rc))));
    }
    uuid_destroy(uuid_ns);
}
else {
    if ((rc = uuid_make(uuid, mode)) != UUID_RC_OK) {
        uuid_destroy(uuid);
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
                        errmsg("failed to make v%d UUID: %s", version, uuid_error(rc))));
    }
}

/* export as binary representation */
if ((uuid_datum = (uuid_datum_t *)palloc(sizeof(uuid_datum_t))) == NULL) {
    uuid_destroy(uuid);
    ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
                  errmsg("failed to allocate UUID datum")));
}
vp = &(uuid_datum->uuid_bin);
len = sizeof(uuid_datum->uuid_bin);
if ((rc = uuid_export(uuid, UUID_FMT_BIN, &vp, &len)) != UUID_RC_OK) {
    uuid_destroy(uuid);
}

```

```

        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("failed to export UUID binary representation: %s", uuid_error(rc))));
    }
    uuid_destroy(uuid);
    PG_RETURN_POINTER(uuid_datum);
}

/* API function: uuid_hash */
PG_FUNCTION_INFO_V1(pg_uuid_hash);
Datum pg_uuid_hash(PG_FUNCTION_ARGS)
{
    uuid_datum_t *uuid_datum;

    /* sanity check input argument */
    if ((uuid_datum = (uuid_datum_t *)PG_GETARG_POINTER(0)) == NULL)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("invalid UUID datum argument")));

    /* return hash value of the UUID */
    PG_RETURN_INT32(hash_any(uuid_datum->uuid_bin, sizeof(uuid_datum->uuid_bin)));
}

/* INTERNAL function: _uuid_cmp */
static int _uuid_cmp(PG_FUNCTION_ARGS)
{
    uuid_datum_t *uuid_datum1;
    uuid_datum_t *uuid_datum2;
    uuid_t *uuid1;
    uuid_t *uuid2;
    uuid_rc_t rc;
    int result;

    /* sanity check input argument */
    if ((uuid_datum1 = (uuid_datum_t *)PG_GETARG_POINTER(0)) == NULL)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("invalid first UUID datum argument")));
    if
    ((uuid_datum2 = (uuid_datum_t *)PG_GETARG_POINTER(1)) == NULL)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("invalid second UUID datum argument")));

    /* load both UUIDs */
    if ((rc = uuid_create(&uuid1)) != UUID_RC_OK)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("failed to create UUID object: %s", uuid_error(rc))));
    if ((rc = uuid_create(&uuid2)) != UUID_RC_OK) {
        uuid_destroy(uuid1);
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),

```

```

        errmsg("failed to create UUID object: %s", uuid_error(rc)));
    }
    if ((rc = uuid_import(uuid1, UUID_FMT_BIN, uuid_datum1->uuid_bin, sizeof(uuid_datum1->uuid_bin)) !=
UUID_RC_OK) {
        uuid_destroy(uuid1);
        uuid_destroy(uuid2);
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("failed to import UUID: %s", uuid_error(rc))));
    }
    if ((rc = uuid_import(uuid2, UUID_FMT_BIN, uuid_datum2->uuid_bin,
sizeof(uuid_datum2->uuid_bin)) != UUID_RC_OK) {
        uuid_destroy(uuid1);
        uuid_destroy(uuid2);
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("failed to import UUID: %s", uuid_error(rc))));
    }
}

/* compare UUIDs */
if ((rc = uuid_compare(uuid1, uuid2, &result)) != UUID_RC_OK) {
    uuid_destroy(uuid1);
    uuid_destroy(uuid2);
    ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
        errmsg("failed to compare UUID objects: %s", uuid_error(rc))));
}

/* cleanup */
uuid_destroy(uuid1);
uuid_destroy(uuid2);

/* return result */
return result;
}

/* API function: uuid_eq */
PG_FUNCTION_INFO_V1(pg_uuid_eq);
Datum pg_uuid_eq(PG_FUNCTION_ARGS)
{
    int rc;

    rc = _uuid_cmp(fcinfo);
    PG_RETURN_BOOL(rc == 0);
}

/* API function: uuid_ne */
PG_FUNCTION_INFO_V1(pg_uuid_ne);
Datum pg_uuid_ne(PG_FUNCTION_ARGS)
{
    int rc;

```

```

    rc = _uuid_cmp(fcinfo);
    PG_RETURN_BOOL(rc != 0);
}

/* API
function: uuid_lt */
PG_FUNCTION_INFO_V1(pg_uuid_lt);
Datum pg_uuid_lt(PG_FUNCTION_ARGS)
{
    int rc;

    rc = _uuid_cmp(fcinfo);
    PG_RETURN_BOOL(rc == -1);
}

/* API function: uuid_gt */
PG_FUNCTION_INFO_V1(pg_uuid_gt);
Datum pg_uuid_gt(PG_FUNCTION_ARGS)
{
    int rc;

    rc = _uuid_cmp(fcinfo);
    PG_RETURN_BOOL(rc == 1);
}

/* API function: uuid_le */
PG_FUNCTION_INFO_V1(pg_uuid_le);
Datum pg_uuid_le(PG_FUNCTION_ARGS)
{
    int rc;

    rc = _uuid_cmp(fcinfo);
    PG_RETURN_BOOL(rc < 1);
}

/* API function: uuid_ge */
PG_FUNCTION_INFO_V1(pg_uuid_ge);
Datum pg_uuid_ge(PG_FUNCTION_ARGS)
{
    int rc;

    rc = _uuid_cmp(fcinfo);
    PG_RETURN_BOOL(rc > -1);
}

/* API function: uuid_cmp */
PG_FUNCTION_INFO_V1(pg_uuid_cmp);

```



```
Datum pg_uuid_cmp(PG_FUNCTION_ARGS)
{
    int rc;

    rc = _uuid_cmp(fcinfo);
    PG_RETURN_INT32(rc);
}
```

1.298 liblzma 5.2.1 r0.0

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

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

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=====

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Version 3, 29 June 2007

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1.299 wrl-toolchain-prebuilt 4.6a r2

1.300 xz 5.1.1alpha r1

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1.301 device-mapper-multipath 0.4.9-111.el7

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Preamble

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freedom to share and change it. By contrast, the GNU General Public

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with 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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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threshold for this to be true is not precisely defined by law.

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

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

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

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

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1.304 open-ldap 2.4.46

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1.305 openssl 1.0.2o

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1.306 python 2.7.11

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
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Sockets

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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MD5 message
digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.

1999-11-04 lpd Edited

comments slightly for automatic TOC extraction.

1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.

1999-05-03 lpd Original version.

Asynchronous socket services

The :mod:`asynchcat` and :mod:`asynchcore` modules contain the following notice::

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C

- version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

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Select kqueue

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:mod:`select` and contains the following notice for the kqueue interface::

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strtod and dtoa

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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
2.1.2	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

Footnotes:

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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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Ty Coon, President of Vice
```

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Upstream-Name: liblz4

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

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

Files: *

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1.310 procps 3.3.10 17.el7_5.2

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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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1.311 setup 2.8.71 10.el7

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1.312 curl 7.63.0

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=====

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1.313 zlib 1.2.3

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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*/

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1.314 util-linux 2.23.2 59.el7

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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Initialize empty image

f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table

57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-----

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

Device	Boot	Start	End	Blocks	Id	System
--------	------	-------	-----	--------	----	--------

Create 1st primary partition

ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-----

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device	Boot	Start	End	Blocks	Id	System
__ts_dev__1		2048	4095	1024	83	Linux

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023
bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout-----
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device	Boot	Start	End	Blocks	Id	System
__ts_dev__1		2048	4095	1024	83	Linux
__ts_dev__2		4096	20479	8192	a5	FreeBSD

Create default BSD
2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

#	start	end	size	fstype	[fsize	bsize	cpg]
c:	4096	20479	16384	unused	0	0	
d:	0						
	16064	16065	unused		0	0	

BSD disklabel command (m for help):

Command (m for help):

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

#	start	end	size	fstype	[fsize	bsize	cpg]
a:	4096	6144	2049	4.2BSD	0	0	0
c:	4096	20479	16384	unused	0	0	
d:	0	16064	16065	unused	0	0	

BSD disklabel command (m for help):

Command (m for help):

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

0	unused	5	4.1BSD	9	4.4LFS	d	boot
1	swap						
		6	Eighth Edition	a	unknown	e	ADOS
2	Version 6	7	4.2BSD	b	HPFS	f	HFS
3	Version 7	8	MS-DOS	c	ISO-9660	10	AdvFS
4	System V						

BSD disklabel command (m for help):

/*

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*

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- */

1.315 cryptsetup 2.0.3 3.e17

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1.318 kerberos 1.15.1 34.el7

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

lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/iprof_hdr.h
kadmin/server/iprofd_svc.c
lib/kdb/iprof.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in ``src/lib/gssapi``, including the following files:

.. parsed-literal::

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

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

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

.. parsed-literal::

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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

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cmd/krb5/iprof/iprof\_hdr.h  
cmd/krb5/kadmin/server/iprofd\_svc.c  
cmd/krb5/kproplog/kproplog.c  
cmd/krb5/slave/kpropd\_rpc.c  
lib/gss\_mechs/mech\_krb5/et/kdb5\_err.c  
lib/gss\_mechs/mech\_spnego/mech/gssapiP\_spnego.h  
lib/gss\_mechs/mech\_spnego/mech/spnego\_mech.c  
lib/krb5/kadm5/kadm\_host\_srv\_names.c  
lib/krb5/kdb/kdb\_convert.c  
lib/krb5/kdb/kdb\_hdr.h  
lib/krb5/kdb/kdb\_log.c  
lib/krb5/kdb/kdb\_log.h  
lib/libgss/g\_accept\_sec\_context.c  
lib/libgss/g\_acquire\_cred.c  
lib/libgss/g\_canon\_name.c  
lib/libgss/g\_compare\_name.c  
lib/libgss/g\_context\_time.c  
lib/libgss/g\_delete\_sec\_context.c  
lib/libgss/g\_dsp\_name.c  
lib/libgss/g\_dsp\_status.c  
lib/libgss/g\_dup\_name.c  
lib/libgss/g\_exp\_sec\_context.c

lib/libgss/g\_export\_name.c  
lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
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lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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```
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```

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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

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```

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<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
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<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
```

```
<link rel="stylesheet" href="_static/kerb.css" type="text/css" />
```

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<script type="text/javascript">
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```

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```

```
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```

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 COLLAPSE_INDEX: false,
```

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 FILE_SUFFIX: '.html',
```

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 HAS_SOURCE: true
```

```
};
```

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</script>
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```

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<script type="text/javascript" src="_static/doctools.js"></script>
```

```
<link rel="author" title="About these documents" href="about.html" />
```

```
<link rel="copyright" title="Copyright" href="#" />
```

```
<link rel="top" title="MIT Kerberos Documentation" href="index.html" />
```

```
<link rel="up" title="MIT Kerberos License information" href="mitK5license.html" />
```

```
<link rel="next" title="How to build this documentation from the source" href="build_this.html" />
```

```
<link rel="prev" title="MIT Kerberos License information" href="mitK5license.html" />
```

```
</head>
```

```
<body>
```

```
<div class="header-wrapper">
```

```
<div class="header">
```

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

```
<div class="rel">
```

```
<a href="index.html" title="Full Table of Contents"
```

```
 accesskey="C">Contents |
```

```
<a href="mitK5license.html" title="MIT Kerberos License information"
```

```
 accesskey="P">previous |
```

```
<a href="build_this.html" title="How to build
```

this documentation from the source"

```
 accesskey="N">next |
 <a href="genindex.html" title="General Index"
 accesskey="I">index |
 <a href="search.html" title="Enter search criteria"
 accesskey="S">Search |
 feedback
 </div>
</div>
</div>
```

```
<div class="content-wrapper">
<div class="content">
<div class="document">
```

```
<div class="documentwrapper">
<div class="bodywrapper">
<div class="body">
```

```
<div class="section" id="copyright">
<h1>Copyright</h1>
<p>Copyright 1985-2017 by the Massachusetts Institute of
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information for additional
copyright and license
information.</p>
</div>
```

```
 </div>
</div>
</div>
</div>
<div class="sidebar">
<h2>On this page</h2>

Copyright

```

```


<h2>Table of contents</h2>

<li class="toctree-l1">For users
<li class="toctree-l1">For administrators
<li class="toctree-l1">For application developers
<li class="toctree-l1">For plugin module
developers
```

- [Building Kerberos V5](build/index.html)
- [Kerberos V5 concepts](basic/index.html)
- [Protocols and file formats](formats/index.html)
- [MIT Kerberos features](mitK5features.html)
- [How to build this documentation from the source](build_this.html)
- [Contributing to the MIT Kerberos Documentation](about.html)
- [Resources](resources.html)

<br/>

<h4><a href="index.html">Full Table of Contents</a></h4>

<h4>Search</h4>

<form class="search" action="search.html" method="get">

<input type="text" name="q" size="18" />

<input type="submit" value="Go" />

<input type="hidden" name="check\_keywords" value="yes" />

<input type="hidden" name="area" value="default" />

</form>

</div>

<div class="clearer"></div>

</div>

</div>

<div class="footer-wrapper">

<div class="footer" >

<div class="right" ><i>Release: 1.15.1</i><br />

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</div>

<div class="left">

<a href="index.html" title="Full Table of Contents"

>Contents</a> |

<a href="mitK5license.html" title="MIT Kerberos License information"

>previous</a> |

<a href="build\_this.html" title="How to build this documentation from the source"

>next</a> |

<a href="genindex.html" title="General Index"

>index</a> |

<a href="search.html" title="Enter search criteria"

>Search</a> |

<a href="mailto:krb5-bugs@mit.edu?subject=Documentation\_\_Copyright">feedback</a>

</div>

</div>

</div>

```
</body>
</html>
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
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<link rel="stylesheet" href="_static/kerb.css" type="text/css" />
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var DOCUMENTATION_OPTIONS = {
```

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 URL_ROOT: './',
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COLLAPSE_INDEX: false,
FILE_SUFFIX: '.html',
HAS_SOURCE: true
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<script type="text/javascript" src="_static/underscore.js"></script>
<script type="text/javascript" src="_static/doctools.js"></script>
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<link rel="copyright" title="Copyright" href="copyright.html" />
<link rel="top" title="MIT Kerberos Documentation" href="index.html" />
<link rel="up" title="MIT Kerberos features" href="mitK5features.html" />
<link rel="next" title="Copyright" href="copyright.html" />
<link rel="prev" title="MIT Kerberos features" href="mitK5features.html" />
</head>
<body>
<div class="header-wrapper">
 <div class="header">

 <h1>MIT Kerberos Documentation</h1>

 <div class="rel">

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

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

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

```

<div class="section" id="mit-kerberos-license-information">  
<span id="mitk5license"></span><h1>MIT Kerberos License information<a class="headerlink" href="#mit-kerberos-license-information" title="Permalink to this headline"></a></h1>  
<div class="toctree-wrapper compound">  
</div>  
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```

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<p>The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in

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

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

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g\_accept\_sec\_context</span><span class="o">.</span><span class="n">c</span></pre><span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g\_acquire\_cred</span><span class="o">.</span><span class="n">c</span></pre>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g\_canon\_name</span><span class="o">.</span><span class="n">c</span></pre>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g\_compare\_name</span><span class="o">.</span><span class="n">c</span></pre>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g\_context\_time</span><span class="o">.</span><span class="n">c</span></pre>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g\_delete\_sec\_context</span><span class="o">.</span><span class="n">c</span></pre>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g\_dsp\_name</span><span class="o">.</span><span class="n">c</span></pre>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g\_dsp\_status</span><span class="o">.</span><span class="n">c</span></pre>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g\_dup\_name</span><span class="o">.</span><span class="n">c</span></pre>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g\_get\_err\_text</span><span class="o">.</span><span class="n">c</span></pre>







```
class="n">kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
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```
import os
```

```
import sys
```



```

import re

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

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

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

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

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

 # Scan for license statements.
 in_comment = False
 code_seen = False
 nonlicense_seen = False
 for line in lines[ln:]:
 # Strip out whitespace and comments contained within a line.

```

```

if not in_comment:
 line = re.sub(r'^\s.*?\s*/',
", line)
 line = line.strip()

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

ln += 1

```

```

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

```

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## 1.319 avahi 0.6.31

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## 1.320 python 3.7.3

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see <http://www.zope.com/>). 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 is a sponsoring member of the PSF.

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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	no
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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A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
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Sockets

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The `:mod:`socket``

module uses the functions, `:func:`getaddrinfo``, and

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Asynchronous socket services  
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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between `ascii` and `binary`. This results in a 1000-fold speedup. The `C` version is still 5 times faster, though.

- Arguments more compliant with Python standard

## XML Remote Procedure Calls

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Select kqueue

-----

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## SipHash24

-----

The file `:file:`Python/pyhash.c`` contains Marek Majkowski's implementation of Dan Bernstein's SipHash24 algorithm. The contains the following note::

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves (supercop/crypto\_auth/siphash24/little)

djb (supercop/crypto\_auth/siphash24/little2)

Jean-Philippe Aumasson

(<https://131002.net/siphash/siphash24.c>)

## strtod and dtoa

-----

The file `:file:`Python/dtoa.c``, which supplies C functions `dtoa` and `strtod` for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <http://www.netlib.org/fp/>. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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`zlib`

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cfuhash

-----

The implementation of the hash table used by the `:mod:`tracemalloc`` is based on the cfuhash project::

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libmpdec

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# 1.324 openssl 1.0.2k 19.e17

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## 1.327 inetutils 0.17-59.el7

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
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## 1.329 libassuan 2.2.1

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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his

own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

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The Red Hat developers, without whom CentOS would look very different

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# 1.338 glibc 2.17-292.el7

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

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@c Local Variables:

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

@c End:

commit ef7344f09c5ce00eb519ed14598b2a8e39c68387

Author: Joseph Myers <joseph@codesourcery.com>

Date: Sun Dec 22 14:49:48 2013 +0000

Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

As discussed in

<<https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html>> and  
<<https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html>>, it seems  
appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes  
are: update paths in sysdeps/mach/hurd/Implies and  
sysdeps/unix/sysv/linux/wait3.c; merge the two syscalls.list files,  
with the removal of syscalls that were in  
sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory  
by .c files there.

Tested x86\_64. The installed shared libraries are identical before  
and after the patch except for libc.so where the move of wait3.c  
(included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but  
the disassembly is unchanged.

- \* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.

- \* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from  
sysdeps/unix/bsd/bsd4.4/syscalls.list.

- (fchflags): Likewise.

- (revoke): Likewise.

- (setlogin): Likewise.

- (sigaltstack): Likewise.

- (wait4): Likewise.

- (sigblock): Remove.

- (sigsetmask): Likewise.

- (wait3): Likewise.

- (waitpid): Likewise.

- \* sysdeps/unix/bsd/bsd4.4/syscalls.list: Remove file.

- \* sysdeps/unix/sysv/linux/wait3.c: Update directory of included  
file.

- \* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...

- \* sysdeps/unix/bsd/Makefile: ... here.

- \* sysdeps/unix/bsd/bsd4.4/Versions: Move to ...

- \* sysdeps/unix/bsd/Versions: ... here.

- \* sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h: Move to ...

- \* sysdeps/unix/bsd/bits/sockaddr.h: ... here.

- \* sysdeps/unix/bsd/bsd4.4/cmsg\_nxthdr.c: Move to ...

- \* sysdeps/unix/bsd/cmsg\_nxthdr.c: ... here.

- \* sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
- \* sysdeps/unix/bsd/sigblock.c: ... here.
- \* sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
- \* sysdeps/unix/bsd/sigsetmask.c: ... here.
- \* sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...
- \* sysdeps/unix/bsd/sigvec.c: ... here.
- \* sysdeps/unix/bsd/bsd4.4/tcdrain.c: Move to ...
- \* sysdeps/unix/bsd/tcdrain.c: ... here.
- \* sysdeps/unix/bsd/bsd4.4/tcgetattr.c: Move to ...
- \* sysdeps/unix/bsd/tcgetattr.c: ... here.
- \* sysdeps/unix/bsd/bsd4.4/tcsetattr.c: Move to ...
- \* sysdeps/unix/bsd/tcsetattr.c: ... here.
- \* sysdeps/unix/bsd/bsd4.4/wait.c: Move to ...
- \* sysdeps/unix/bsd/wait.c: ... here.
- \* sysdeps/unix/bsd/bsd4.4/wait3.c:

Move to ...

- \* sysdeps/unix/bsd/wait3.c: ... here.
- \* sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...
- \* sysdeps/unix/bsd/waitpid.c: ... here.

```
diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234c1fdf1522 100644
```

```
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@
```

```
Hurd-based GNU systems.
```

```
gnu
```

```
The Hurd provides a rough superset of the functionality of 4.4 BSD.
```

```
-unix/bsd/bsd4.4
```

```
+unix/bsd
```

```
diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
```

```
rename from sysdeps/unix/bsd/bsd4.4/Makefile
```

```
rename to sysdeps/unix/bsd/Makefile
```

```
diff --git a/sysdeps/unix/bsd/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
similarity index 100%
```

```
rename from sysdeps/unix/bsd/bsd4.4/Versions
```

```
rename to sysdeps/unix/bsd/Versions
```

```
diff --git a/sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
similarity index 100%
```

```
rename from sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h
```

```
rename
```

```
to sysdeps/unix/bsd/bits/sockaddr.h
```

```
diff --git a/sysdeps/unix/bsd/bsd4.4/syscalls.list b/sysdeps/unix/bsd/bsd4.4/syscalls.list
deleted file mode 100644
```

```
index a4d354685424ac61..0000000000000000
```

```
--- a/sysdeps/unix/bsd/bsd4.4/syscalls.list
```

```
+++ /dev/null
```



```

@@ -1,8 +0,0 @@
-# File name Caller Syscall name # args Strong name Weak names
-
-chflags - chflags 2 chflags
-fchflags - fchflags 2 fchflags
-revoke - revoke 1 revoke
-setlogin - setlogin 2 setlogin
-sigtstack - sigtstack 2 __sigtstack sigtstack
-wait4 - wait4 4 __wait4 wait4
diff --git a/sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c b/sysdeps/unix/bsd/cmsg_nxthdr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c
rename to sysdeps/unix/bsd/cmsg_nxthdr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigblock.c
rename to sysdeps/unix/bsd/sigblock.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigsetmask.c
b/sysdeps/unix/bsd/sigsetmask.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigsetmask.c
rename to sysdeps/unix/bsd/sigsetmask.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigvec.c
rename to sysdeps/unix/bsd/sigvec.c
diff --git a/sysdeps/unix/bsd/syscalls.list b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148..9f48a144d475f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ b/sysdeps/unix/bsd/syscalls.list
@@ -1,14 +1,16 @@
File name Caller Syscall name # args Strong name Weak names

+chflags - chflags 2 chflags
+fchflags - fchflags 2 fchflags
flock - flock 2 __flock flock
getdents - getdirentries 4 __getdirentries getdirentries
getdtsz - getdtablesize 0 __getdtablesize getdtablesize
getpagesize - getpagesize 0 __getpagesize getpagesize
killpg - killpg 2 killpg
-sigblock - sigblock 1 __sigblock sigblock
+revoke - revoke 1 revoke
+setlogin - setlogin 2 setlogin
+sigtstack - sigtstack 2 __sigtstack sigtstack
sigpause - sigpause 1 __sigpause sigpause
-sigsetmask - sigsetmask 1 __sigsetmask sigsetmask
sigstack - sigstack 2 sigstack
sigvec - sigvec 3 __sigvec sigvec

```

```

-wait3 - wait3 3 __wait3 wait3
-waitpid - waitpid 3 __waitpid waitpid
+wait4 - wait4 4 __wait4 wait4
diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcdrain.c
rename to sysdeps/unix/bsd/tcdrain.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcgetattr.c b/sysdeps/unix/bsd/tcgetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcgetattr.c
rename to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcsetattr.c b/sysdeps/unix/bsd/tcsetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcsetattr.c
rename to sysdeps/unix/bsd/tcsetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait.c b/sysdeps/unix/bsd/wait.c
similarity index 100%
rename
 from sysdeps/unix/bsd/bsd4.4/wait.c
rename to sysdeps/unix/bsd/wait.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait3.c b/sysdeps/unix/bsd/wait3.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/wait3.c
rename to sysdeps/unix/bsd/wait3.c
diff --git a/sysdeps/unix/bsd/bsd4.4/waitpid.c b/sysdeps/unix/bsd/waitpid.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/waitpid.c
rename to sysdeps/unix/bsd/waitpid.c
diff --git a/sysdeps/unix/sysv/linux/wait3.c b/sysdeps/unix/sysv/linux/wait3.c
index 0b3bdee771782b7b..2ff027f0e1d83eb2 100644
--- a/sysdeps/unix/sysv/linux/wait3.c
+++ b/sysdeps/unix/sysv/linux/wait3.c
@@ -1,1 @@
-#include <sysdeps/unix/bsd/bsd4.4/wait3.c>
+#include <sysdeps/unix/bsd/wait3.c>
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## 1.343 xz 5.2.1

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

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

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

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

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

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

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

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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Ty Coon, President of Vice

That's all there is to it!

# 1.347 libassuan 2.2.1 r0.0

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

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

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

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

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

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

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

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

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

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

2. You may modify your copy or copies of the Library or any portion

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a

copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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## 1.348 bridgeutils 1.5 r0.0

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```
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Copyright (C) 19yy <name of author>
```

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the Free Software Foundation; either version
2 of the License, or
(at your option) any later version.
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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands

```
`show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
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mouse-clicks or menu items--whatever suits your program.
```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.354 busybox 1.19.4 r23

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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# 1.356 base-passwd 3.5.29a r0.1.0

## 1.356.1 Available under license :

Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

Name: base-passwd

Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/\*

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Files: passwd.master, group.master

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X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and  
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Files: doc/\*

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

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

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

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\*

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\*

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\*

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\* it, and giving a relevant date.

\*

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- \* parts of the
- aggregate.
- \*
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- \*
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- \* machine-readable Corresponding Source under the terms of this License,
- \* in one of these ways:
- \*
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- \* Corresponding Source fixed on a durable physical medium
- \* customarily used for software interchange.
- \*
- \* b) Convey the object code in, or embodied in, a physical product
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- \* product that is covered

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- \* medium customarily used for software interchange, for a price no
- \* more than your reasonable cost of physically performing this
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- \* Corresponding Source from a network server at no charge.

\*

- \* c) Convey individual copies of the object code with a copy of the
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- \* alternative is allowed only occasionally and noncommercially, and
- \* only if you received the object code with such an offer, in accord
- \* with subsection 6b.

\*

- \* d) Convey the object code by offering access from a designated
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- \* Corresponding Source in the same way through the same place at no
- \* further charge. You need not require recipients to copy the
- \* Corresponding Source along with the object code. If the place to
- \* copy the object

code is a network server, the Corresponding Source

- \* may be on a different server (operated by you or a third party)
- \* that supports equivalent copying facilities, provided you maintain
- \* clear directions next to the object code saying where to find the
- \* Corresponding Source. Regardless of what server hosts the
- \* Corresponding Source, you remain obligated to ensure that it is
- \* available for as long as needed to satisfy these requirements.

\*

- \* e) Convey the object code using peer-to-peer transmission, provided
- \* you inform other peers where the object code and Corresponding
- \* Source of the work are being offered to the general public at no
- \* charge under subsection 6d.

\*

- \* A separable portion of the object code, whose source code is excluded
- \* from the Corresponding Source as a System Library, need not be
- \* included in conveying the object code work.

\*

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\*



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\* and execute modified versions of a covered work  
in that User Product from  
\* a modified version of its Corresponding Source. The information must  
\* suffice to ensure that the continued functioning of the modified object  
\* code is in no case prevented or interfered with solely because  
\* modification has been made.

\*

\* If you convey an object code work under this section in, or with, or  
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\* part of a transaction in which the right of possession and use of the  
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\* fixed term (regardless of how the transaction is characterized), the  
\* Corresponding Source conveyed under this section must be accompanied  
\* by the Installation Information. But this requirement does not apply  
\* if neither you nor any third party retains the ability to install  
\* modified object code on the User Product (for example, the work has  
\* been installed in ROM).

\*

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\*

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```

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```
/* <filename>.c
```

```
*
```

```
* Wireshark - Network traffic analyzer
```

```
* By Gerald Combs <gerald@wireshark.org>
```

```
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```
*
```

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```
*/
```

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Installing Wireshark on FreeBSD/OpenBSD/NetBSD/DragonFly BSD

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#### 1. Extra packages required

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Wireshark requires a number of additional programs to function. Install the latest versions of the following programs before compiling:

The easiest way to install these is by using your operating system's ports or packages system. If you prefer to build from source, the programs can be found at the following sites:

glib 2.32 or later:

<ftp.gnome.org/pub/gnome/sources/glib/>  
<http://ftp.gnome.org/pub/gnome/sources/glib/>

pkgconfig:

<http://pkgconfig.freedesktop.org/releases/>

python 3.4 or later:

<https://www.python.org/downloads/source/>

If you want to use the Wireshark GUI, install one or both of these toolkits:

Qt 5.2 or later:

[http://download.qt-project.org/official\\_releases/qt/](http://download.qt-project.org/official_releases/qt/)

(These programs may require additional dependencies)

Additional programs can be used to enhance Wireshark's functionality. These can be found by typing `./configure --help` or looking at the output at the end of running the configure script.

## 2. Compiling Wireshark

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To compile Wireshark with the default options, run `configure`, `make` and `make install` (you may have to run `"autogen.sh"` first):

```
./configure
make
make install
```

The `configure` and `make` steps can be run as a non-root user and you can run Wireshark from the compilation directory itself. You must run `make install` as root in order to copy the program to the proper directories.

## 3. Berkeley Packet Filter (BPF) requirement

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In order to capture packets (with Wireshark/TShark, `tcpdump`, or any other packet capture program) on a BSD system, your kernel must have the Berkeley

Packet Filter mechanism enabled. The default kernel configurations in recent versions of BSD systems have this enabled already. To verify the `bpf` device is present, look in the `/dev` directory:

```
ls -l /dev/bpf*
```

You should see one or more `bpf` devices listed similar to this:

```
crw----- 1 root wheel 0, 90 Aug 10 21:05 /dev/bpf0
crw----- 1 root wheel 0, 91 Aug 10 21:05 /dev/bpf1
```

Packet-capturing programs will pick the first `bpf` device that's not in use. Recent versions of most BSDs will create `bpf` devices as needed, so you don't have to configure the number of devices that will be available.

## 4. Running wireshark as a non-root user

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Since the `bpf` devices are read-only by the owner (root), you normally have to run packet capturing programs such as Wireshark as root. It is safer to run programs as a non-root user if possible. To run Wireshark as a non-root user, you must change the permissions on the `bpf` device(s).  
If

you are the only user that needs to use Wireshark, the easiest way is to change the owner of each bpf device to your username. You can also add the read/write ability to the group (typically wheel) and add users that need to use Wireshark to the wheel group. Check your operating system's documentation on how to make permanent these changes as they are often reset upon reboot; if /dev is implemented with devfs, it might be possible to configure devfs to create all bpf devices owned by a particular user and/or group and with particular permissions. In FreeBSD 6.0 and later this can be done by creating an /etc/devfs.rules file with content such as

```
[localrules=10]
add path 'bpf*' {mode and permissions}
```

where "mode and permissions" can include clauses such as

```
mode {octal permissions}
```

to set the permissions on the device (e.g., "mode 0660" to set the permissions to rw-rw-r--),

```
user {user}
```

to set the user who owns the device, or

```
group {group}
```

to set the group that owns the device and adding a line such as

```
devfs_system_ruleset=localrules
```

to /etc/rc.conf. For example, an /etc/devfs.rules file with

```
[localrules=10]
add path 'bpf*' mode 0660 group wheel
```

will grant read and write permissions on all BPF devices to all users in the "wheel" group.

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\*/

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# 1.365 libnl3 3.2.8 r1

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## 1.366 rdkafka 0.11.6

### 1.366.1 Available under license :

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src/xxhash.[ch] src/lz4\*.ch]: git@github.com:lz4/lz4.git e2827775ee80d2ef985858727575df31fc60f1f3

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10th April 2012

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This file contains a list of people who've made non-trivial
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\* Added atomicops for AIX (POWER)  
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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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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
2.1.3	2.1.2	2002	PSF	yes
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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
2.7	2.6	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.

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

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# Contributions to the urllib3 project

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## Contributors

In chronological order:

- \* victor.vde <<http://code.google.com/u/victor.vde/>>
- \* HTTPS patch (which inspired HTTPSConnectionPool)
  
- \* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>
- \* NTLM-authenticated HTTPSConnectionPool
- \* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)
  
- \* niphlod <niphlod@gmail.com>
- \* Client-verified SSL certificates for HTTPSConnectionPool
- \* Response gzip and deflate encoding support
- \* Better unicode support for filepost using StringIO buffers
  
- \* btoconnor <brian@btoconnor.net>
- \* Non-multipart encoding for POST requests
  
- \* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>
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- \* Support for TLS SNI
- \* API unification of ssl\_version/cert\_reqs
- \* SSL fingerprint and alternative hostname verification
- \* Bugfixes in testsuite
  
- \* Sune Kirkeby <mig@ibofobi.dk>

- \* Optional SNI-support for Python 2 via PyOpenSSL.
  
- \* Marc Schlaich <marc.schlaich@gmail.com>
  - \* Various bugfixes and test improvements.
  
- \* Bryce Boe <bbzbryce@gmail.com>
  - \* Correct six.moves conflict
  - \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
  - \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield
  - <<http://lukasa.co.uk/about/>>
  - \* Stream method for Response objects.
  - \* Return native strings in header values.
  - \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
  - \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  - \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  - \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <sholsapp@gmail.com>
  - \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>
  - \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  - \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
  - \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
  - \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <<http://dbrgn.ch/>>
  - \* Disabled TLS compression by default on Python 3.2+
  - \* Disabled TLS compression in pyopenssl contrib module
  - \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>

- \* Account retries on proxy errors
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
- \* Josh Schneier <https://github.com/jschneier>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
- \* Tahia Khan <http://tahia.tk/>
- \* Added Timeout examples in docs
- \* Arthur Grunseid <http://grunseid.com>
- \* source\_address support and tests (with https://github.com/bui)
- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library io module.
- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
- \* Aaron Meurer <asmeurer@gmail.com>
- \* Added Url.url, which unparses a Url
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes
- \* Benjamin Meyer <bm\_witness@yahoo.com>
- \* Security Warning Documentation update for proper capture
- \* Shivan Sornarajah <github@sornars.com>
- \* Support for using ConnectionPool and PoolManager as context managers.
- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

## 1.375 libssh2 1.6.0

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\*

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\*

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- \*/

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```
NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M
```

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```
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it
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```

```
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Upstream-Contact: Yann Collet <[Cyan4973@github.com](mailto:Cyan4973@github.com)>

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

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To

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

@smallexample  
@var{one line to give the program's name and a brief idea of what it does.}  
Copyright (C) @var{year} @var{name of author}

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@end smallexample

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

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

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This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.  
This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.  
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@c man end

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Version 2.1, February 1999

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Any

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Version 3.1, 31 March 2009

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

## HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied

the SunOS dynamic loader

specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and

Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).  
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).  
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.  
David Chase, then at Olivetti Research, suggested several improvements.  
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.  
Jesse Hull and John Ellis supplied the C++ interface code.  
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)  
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Version 2.1, February 1999

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

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

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

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

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- a) Accompany the work with the complete corresponding machine-readable

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

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

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

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

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

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Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
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Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
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ek, Vtzslav  
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Espie, Marc  
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Frysinger, Mike  
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Hoover, Adam  
Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
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Jackson, Richard L., Jr.  
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Knoble, Jim  
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Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Mller, Dworkin  
Nieusma, Jeff  
Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
Paquet, Eric  
Paradis, Chantal  
Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
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Rossum, Guido van  
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Scott, Dougal  
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Winiger, Gary  
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The following people have worked to translate sudo into other languages:

Blttermann, Mario  
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Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
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Diguez, Francisco  
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Kelemen, Gbor  
Keeci, Mehmet  
Koir, Klemen  
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Kramer, Jakob  
Krznar, Tomislav  
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Margeviius, Algimantas  
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- \* A rewrite of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
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* Version 1.1 1 Aug 2013 Mark Adler
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# <http://stackoverflow.com/a/17646775/1821055>

/\* crc32c.c -- compute CRC-32C using the Intel crc32 instruction

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librdkafka - Apache Kafka C driver library

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

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

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".



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

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

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

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

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

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

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

a) The modified work must itself be a software library.

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

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

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

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

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

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

In addition,

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2,

instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

Library into a program that is not a library.

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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

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

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

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

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

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

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

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It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system;

it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in

certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each

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#### END OF TERMS AND CONDITIONS

#### Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

Copyright (C) <year>

<name of author>

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

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

Here is a sample; alter the names:



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

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

That's all there is to it!

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Version 3, 29 June 2007

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

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps:

(1)

assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand

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

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

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an

exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

#### 1. Source Code.

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

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to

produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

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Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed;

section 10  
makes it unnecessary.

### 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

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### 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately  
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recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

### 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to  
"keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

## 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from

a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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[Tatu continues]

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- IDEA is no longer included, its use is deprecated
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- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
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[The licence continues]

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\* @version 3.0 (December 2000)

\*

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

\*

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

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

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\*/

/\* OPENBSD ORIGINAL: sys/sys/poll.h \*/

```
#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifdef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_
```

```
typedef struct pollfd {
 int fd;
 short events;
 short revents;
} pollfd_t;
```

```
typedef unsigned int nfds_t;
```

```
#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif
```

```
#define INFTIM (-1) /* not
standard */
```

```
int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
/*
```

```
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```

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 \*  
 \*/

```
#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
```

```
#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED
```

```
/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w)) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)
```

```
/* Prototype */
pid_t waitpid(int,
int *, int);
```

```
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
```

```

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#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

```

## 1.407 curl 7.29.0-57.el7

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License Mixing with apps, libcurl and Third Party Libraries

=====

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

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zlib [http://www.gzip.org/zlib/zlib\\_license.html](http://www.gzip.org/zlib/zlib_license.html)

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

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## 1.408 nss-util 3.44.0-3.el7

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```
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```

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

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- cipher/sha256-avx2-bmi2-amd64.S
- cipher/sha256-ssse3-amd64.S
- cipher/sha512-avx-amd64.S
- cipher/sha512-avx2-bmi2-amd64.S
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- random/jitterentropy.h
- random/rndjent.c (plus common Libgcrypt copyright holders)

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## 1.412 monit 5.25.3

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# 1.416 python-setuptools 7.0

## 1.416.1 Available under license :

### History and License

#### 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 <https://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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2.0 1.6 2000 BeOpen.com no

1.6.1 1.6 2001 CNRI no

2.1 2.0+1.6.1 2001 PSF no

2.0.1 2.0+1.6.1 2001 PSF yes

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#### Mersenne Twister

The `_random` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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Sockets

The socket module uses the functions, `getaddrinfo()`, and `getnameinfo()`, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>.

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L. Peter Deutsch  
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

- 2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
- 1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
- 1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);

added conditionalization for C++ compilation from Martin  
Purschke <purschke@bnl.gov>.  
1999-05-03 lpd Original version.  
Asynchronous socket services  
The asynchat and asyncore modules contain the following notice:

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Modified by Jack Jansen, CWI, July 1995:

-

Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.

- Arguments more compliant with Python standard

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# 1.417 python-setuptools 12.0.5

## 1.417.1 Available under license :

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Metadata-Version: 1.1

Name: setuptools

Version: 12.0.5

Summary: Easily download, build, install, upgrade, and uninstall Python packages

Home-page: <https://bitbucket.org/pypa/setuptools>

Author: Python Packaging Authority

Author-email: [distutils-sig@python.org](mailto:distutils-sig@python.org)

License: PSF or ZPL

Description: =====

Installing and Using Setuptools

=====

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

[Change History <https://pythonhosted.org/setuptools/history.html>](https://pythonhosted.org/setuptools/history.html)

-----  
Installation Instructions  
-----

The recommended way to bootstrap setuptools on any system is to download `ez_setup.py` and run it using the target Python environment. Different operating systems have different recommended techniques to accomplish this

basic routine, so below are some examples to get you started.

Setuptools requires Python 2.6 or later. To install setuptools on Python 2.4 or Python 2.5, use the `bootstrap` script for Setuptools 1.x [\(<https://bitbucket.org/pypa/setuptools/raw/bootstrap-py24/ez\\_setup.py>\)](https://bitbucket.org/pypa/setuptools/raw/bootstrap-py24/ez_setup.py).

The link provided to `ez_setup.py` is a bookmark to bootstrap script for the latest known stable release.

.. `ez_setup.py`: [https://bootstrap.pypa.io/ez\\_setup.py](https://bootstrap.pypa.io/ez_setup.py)

Windows (Powershell 3 or later)

=====

For best results, uninstall previous versions FIRST (see `Uninstalling`).

Using Windows 8 (which includes PowerShell 3) or earlier versions of Windows with PowerShell 3 installed, it's possible to install with one simple Powershell command. Start up Powershell and paste this command::

```
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python -
```

You must start the Powershell with Administrative privileges or you may choose to install a user-local installation::

```
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python --user
```

If you have Python 3.3 or later, you can use the ``py`` command to install to different Python versions. For example, to install to Python 3.3 if you have Python 2.7 installed::

```
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | py -3 -
```

The recommended way to install setuptools on Windows is to download `ez_setup.py`_`` and run it. The script will download the appropriate distribution file and install it for you.

Once installation is complete, you will find an `easy_install`_`` program in your Python `Scripts`_`` subdirectory.

For simple invocation and best results, add this directory to your `PATH`_`` environment variable, if it is not already present. If you did a user-local install, the `Scripts`_`` subdirectory is `env:APPDATA\Python\Scripts`_``.

#### Windows (simplified)

=====

For Windows without PowerShell 3 or for installation without a command-line, download `ez_setup.py`_`` using your preferred web browser or other technique and "run" that file.

#### Unix (wget)

=====

Most Linux distributions come with wget.

Download `ez_setup.py`_`` and run it using the target Python version. The script will download the appropriate version and install it for you::

```
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python
```

Note that you will may need to invoke the command with superuser privileges to

install to the system Python::

```
> wget https://bootstrap.pypa.io/ez_setup.py -O - | sudo python
```

Alternatively, Setuptools may be installed to a user-local path::

```
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python --user
```

Note that on some older systems (noted on Debian 6 and CentOS 5 installations), `wget` may refuse to download `ez_setup.py`, complaining that the certificate common name `*.c.ssl.fastly.net` does not match the host name `bootstrap.pypa.io`. In addition, the `ez_setup.py` script may then encounter similar problems using

`wget` internally to download `setuptools-x.y.zip`, complaining that the certificate common name of `www.python.org` does not match the host name `ypi.python.org`. Those are known issues, related to a bug in the older versions of `wget` (see [Issue 59 <https://bitbucket.org/pypa/ypip/issue/59#comment-5881915>](https://bitbucket.org/pypa/ypip/issue/59#comment-5881915)).

If you happen to encounter them, install Setuptools as follows::

```
> wget --no-check-certificate https://bootstrap.pypa.io/ez_setup.py
> python ez_setup.py --insecure
```

Unix including Mac OS X (curl)

=====

If your system has curl installed, follow the `wget` instructions but replace `wget` with `curl` and `-O` with `-o`. For example::

```
> curl https://bootstrap.pypa.io/ez_setup.py -o - | python
```

Advanced Installation

=====

For more advanced installation options, such as installing to custom locations or prefixes, download and extract the source tarball from `Setuptools on PyPI <https://pypi.python.org/pypi/setuptools>` and run `setup.py` with any supported distutils and Setuptools options. For example::

```
setuptools-x.x$ python setup.py install --prefix=/opt/setuptools
```

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: <https://pythonhosted.org/setuptools/EasyInstall>  
.. \_the section on custom installation locations: <https://pythonhosted.org/setuptools/EasyInstall#custom-installation-locations>

## 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: <https://pypi.python.org/pypi/setuptools>

In addition to the PyPI downloads, the development version of ``setuptools``

is available from the `Bitbucket repo`\_, and in-development versions of the `0.6 branch`\_ are available as well.

.. \_Bitbucket repo: <https://bitbucket.org/pypa/setuptools/get/default.tar.gz#egg=setuptools-dev>

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

## Uninstalling

=====

On Windows, if Setuptools was installed using an ``.exe`` or ``.msi`` installer, simply use the uninstall feature of "Add/Remove Programs" in the Control Panel.

Otherwise, to uninstall Setuptools or Distribute, regardless of the Python version, delete all ``setuptools\*`` and ``distribute\*`` files and directories from your system's ``site-packages`` directory (and any other ``sys.path`` directories) FIRST.

If you are upgrading or otherwise plan to re-install Setuptools or Distribute,

nothing further needs to be done. If you want to completely remove Setuptools, you may also want to remove the 'easy\_install' and 'easy\_install-x.x' scripts and associated executables installed to the Python scripts directory.

-----

## Using Setuptools and EasyInstall

-----

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`\_
- \* `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: <https://bitbucket.org/pypa/setuptools/issues>

.. \_The Internal Structure of Python Eggs: <https://pythonhosted.org/setuptools/formats.html>

.. \_The setuptools Developer's Guide: <https://pythonhosted.org/setuptools/setuptools.html>

.. \_The pkg\_resources API reference: [https://pythonhosted.org/setuptools/pkg\\_resources.html](https://pythonhosted.org/setuptools/pkg_resources.html)

.. \_The EasyInstall user's guide and reference manual: [https://pythonhosted.org/setuptools/easy\\_install.html](https://pythonhosted.org/setuptools/easy_install.html)

.. \_distutils-sig mailing list: <http://mail.python.org/pipermail/distutils-sig/>

-----  
Credits  
-----

\* The original design for the ``.egg`` format and the ``pkg\_resources`` API was

co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first version of ``pkg\_resources``, and supplied the OS X operating system version compatibility algorithm.

\* Ian Bicking implemented many early "creature comfort" features of easy\_install, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and setuptools.

\* Jim Fulton contributed time and effort to build automated tests of various aspects of ``easy\_install``, and supplied the doctests for the command-line ``.exe`` wrappers on Windows.

\* Phillip J. Eby is the seminal author of setuptools, and first proposed the idea of an importable binary distribution format for Python application plug-ins.

\* Significant parts of the implementation of setuptools were funded by the Open Source Applications Foundation, to provide a plug-in infrastructure for the

Chandler PIM application. In addition, many OSAF staffers (such as Mike "Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

\* Tarek Ziad is the principal author of the Distribute fork, which re-invigorated the community on the project, encouraged renewed innovation, and addressed many defects.

\* Since the merge with Distribute, Jason R. Coombs is the maintainer of setuptools. The project is maintained in coordination with the Python Packaging Authority (PyPA) and the larger Python community.

..\_files:

Keywords: CPAN PyPI distutils eggs package management

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

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Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.1

Classifier: Programming Language :: Python :: 3.2

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

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Found in path(s):

\*

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Found in path(s):

- \* /opt/cola/permits/1155085362\_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/pkg\_resources/\_vendor/packaging/\_\_about\_\_.py
- \* /opt/cola/permits/1155085362\_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/pkg\_resources/\_vendor/packaging/\_\_init\_\_.py
- \* /opt/cola/permits/1155085362\_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/pkg\_resources/\_vendor/packaging/specifiers.py
- \* /opt/cola/permits/1155085362\_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/pkg\_resources/\_vendor/packaging/structures.py
- \* /opt/cola/permits/1155085362\_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/pkg\_resources/\_vendor/packaging/version.py
- \*
- /opt/cola/permits/1155085362\_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/pkg\_resources/\_vendor/packaging/\_compat.py

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

=====  
CHANGES  
=====

-----  
12.0.5  
-----

\* Issue #339: Correct Attribute reference in ``cant\_write\_to\_target``.

-----  
12.0.4  
-----

\* Issue #335: Fix script header generation on Windows.

-----  
12.0.3  
-----

\* Fixed incorrect class attribute in ``install\_scripts``. Tests would be nice.

-----  
12.0.2  
-----

\* Issue #331: Fixed ``install\_scripts`` command on Windows systems corrupting

the header.

-----  
12.0.1  
-----

\* Restore ``setuptools.command.easy\_install.sys\_executable`` for pbr compatibility. For the future, tools should construct a `CommandSpec` explicitly.

----  
12.0  
----

\* Issue #188: Setuptools now support multiple entities in the value for ``build.executable``, such that an executable of `"/usr/bin/env my-python"` may be specified. This means that systems with a specified executable whose name has spaces in the path must be updated to escape or quote that value.

\* Deprecated ``easy\_install.ScriptWriter.get\_writer``, replaced by ``.best()`` with slightly different semantics (no `force_windows` flag).

-----  
11.3.1  
-----

\* Issue #327: Formalize and restore support for any printable character in an entry point name.

----  
11.3  
----

\* Expose ``EntryPoint.resolve`` in place of `EntryPoint._load`, implementing the simple, non-requiring load. Deprecated all uses of ``EntryPoint.\_load`` except for calling with no parameters, which is just a shortcut for ``ep.require(); ep.resolve();``.

Apps currently invoking ``ep.load(require=False)`` should instead do the following if wanting to avoid the deprecating warning::

```
getattr(ep, "resolve", lambda: ep.load(require=False))()
```

----  
11.2  
----

\* Pip #2326: Report deprecation warning at stacklevel 2 for easier diagnosis.

----  
11.1  
----

\* Issue #281: Since Setuptools 6.1 (Issue #268), a ValueError would be raised in certain cases where VersionConflict was raised with two arguments, which occurred in `pkg_resources.WorkingSet.find``.

This release adds support for indicating the dependent packages while maintaining support for a VersionConflict when no dependent package context is known. New unit tests now capture the expected interface.

----  
11.0  
----

\* Interop #3: Upgrade to Packaging 15.0; updates to PEP 440 so that >1.7 does not exclude 1.7.1 but does exclude 1.7.0 and 1.7.0.post1.

-----  
10.2.1  
-----

\* Issue #323: Fix regression in entry point name parsing.

----  
10.2  
----

\* Deprecated use of EntryPoint.load(require=False). Passing a boolean to a function to select behavior is an anti-pattern. Instead use `Entrypoint._load``.

\* Substantial refactoring of all unit tests. Tests are now much leaner and re-use a lot of fixtures and contexts for better clarity of purpose.

----  
10.1  
----

\* Issue #320: Added a compatibility implementation of `sdist._default_revctrl`` so that systems relying on that interface do not fail (namely, Ubuntu 12.04 and similar Debian releases).

-----  
10.0.1

-----

\* Issue #319: Fixed issue installing pure distutils packages.

----

10.0

----

\* Issue #313: Removed built-in support for subversion. Projects wishing to retain support for subversion will need to use a third party library. The extant implementation is being ported to `setuptools_svn` <[https://pypi.python.org/pypi/setuptools\\_svn](https://pypi.python.org/pypi/setuptools_svn)>`\_.

\* Issue #315: Updated setuptools to hide its own loaded modules during installation of another package. This change will enable setuptools to upgrade (or downgrade) itself even when its own metadata and implementation change.

---

9.1

---

\* Prefer vendored packaging library as recommended

<<https://github.com/jaraco/setuptools/commit/170657b68f4b92e7e1bf82f5e19a831f5744af67#commitcomment-9109448>>`\_.

-----

9.0.1

-----

\* Issue #312: Restored presence of `pkg_resources` API tests (doctest) to `sdist`.

---

9.0

---

\* Issue #314: Disabled support for `setup_requires` metadata to avoid issue where Setuptools was unable to upgrade over earlier versions.

---

8.4

---

\* Pull Request #106: Now write `setup_requires` metadata.

---

8.3

---

\* Issue #311: Decoupled pkg\_resources from setuptools once again.  
`pkg\_resources` is now a package instead of a module.

-----  
8.2.1  
-----

\* Issue #306: Suppress warnings about Version format except in select scenarios  
(such as installation).

---  
8.2  
---

\* Pull Request #85: Search egg-base when adding egg-info to manifest.

---  
8.1  
---

\* Upgrade `packaging` to 14.5, giving preference to "rc" as designator for  
release candidates over "c".

\* PEP-440 warnings are now raised as their own class,  
`pkg\_resources.PEP440Warning`, instead of RuntimeWarning.

\* Disabled warnings on empty versions.

-----  
8.0.4  
-----

\* Upgrade `packaging` to 14.4, fixing an error where there is a  
different result for if 2.0.5 is contained within >2.0dev and >2.0.dev even  
though normalization rules should have made them equal.

\* Issue #296: Add warning when a version  
is parsed as legacy. This warning will  
make it easier for developers to recognize deprecated version numbers.

-----  
8.0.3  
-----

\* Issue #296: Restored support for `\_\_hash\_\_` on parse\_version results.

-----  
8.0.2  
-----

\* Issue #296: Restored support for `__getitem__` and sort operations on `parse_version` result.

-----  
8.0.1  
-----

\* Issue #296: Restore support for iteration over `parse_version` result, but deprecated that usage with a warning. Fixes failure with buildout.

---  
8.0  
---

\* Implement `PEP 440` <<http://legacy.python.org/dev/peps/pep-0440/>> within `pkg_resources` and `setuptools`. This change deprecates some version numbers such that they will no longer be installable without using the `==` escape hatch. See the changes to `test_resources` <[https://bitbucket.org/pypa/setuptools/commits/dcd552da643c4448056de84c73d56da6d70769d5#chg-setuptools/tests/test\\_resources.py](https://bitbucket.org/pypa/setuptools/commits/dcd552da643c4448056de84c73d56da6d70769d5#chg-setuptools/tests/test_resources.py)> for specific examples of version numbers and specifiers that are no longer supported. `Setuptools` now "vendors" the `packaging` <<https://github.com/pypa/packaging>> library.

---  
7.0  
---

\* Issue #80, Issue #209: Eggs that are downloaded for `setup_requires`, `test_requires`, etc. are now placed in a `./eggs` directory instead of directly in the current directory. This choice of location means the files can be readily managed (removed, ignored). Additionally, later phases or invocations of `setuptools` will not detect the package as already installed and ignore it for permanent install (See #209).

This change is indicated as backward-incompatible as installations that depend on the installation in the current directory will need to account for the new location. Systems that ignore `*.egg` will probably need to be adapted to ignore `.eggs`. The files will need to be manually moved or will be retrieved again. Most use cases will require no attention.

---  
6.1  
---

\* Issue #268: When resolving package versions, a `VersionConflict` now reports



which package previously required the conflicting version.

-----  
6.0.2  
-----

\* Issue #262: Fixed regression in pip install due to egg-info directories being omitted. Re-opens Issue #118.

-----  
6.0.1  
-----

\* Issue #259: Fixed regression with namespace package handling on ``single version, externally managed`` installs.

---  
6.0  
---

\* Issue #100: When building a distribution, Setuptools will no longer match default files using platform-dependent case sensitivity, but rather will only match the files if their case matches exactly. As a result, on Windows and other case-insensitive file systems, files with names such as 'readme.txt' or 'README.TXT' will be omitted from the distribution and a warning will be issued indicating that 'README.txt' was not found. Other filenames affected are:

- README.rst
- README
- setup.cfg
- setup.py (or the script name)
- test/test\*.py

Any users producing distributions with filenames that match those above case-insensitively, but not case-sensitively, should rename those files in their repository for better portability.

\* Pull Request #72: When using ``single\_version\_externally\_managed``, the exclusion list now includes Python 3.2 ``\_\_pycache\_\_`` entries.

\* Pull Request #76 and Pull Request #78: lines in top\_level.txt are now ordered deterministically.

\* Issue #118: The egg-info directory is now no longer included in the list of outputs.

\* Issue #258: Setuptools now patches distutils msvc9compiler to recognize the specially-packaged compiler package for easy extension module support on Python 2.6, 2.7, and 3.2.

---

5.8

---

\* Issue #237: ``pkg\_resources`` now uses explicit detection of Python 2 vs. Python 3, supporting environments where builtins have been patched to make Python 3 look more like Python 2.

---

5.7

---

\* Issue #240: Based on real-world performance measures against 5.4, zip manifests are now cached in all circumstances. The ``PKG\_RESOURCES\_CACHE\_ZIP\_MANIFESTS`` environment variable is no longer relevant. The observed "memory increase" referenced in the 5.4 release notes and detailed in Issue #154 was likely not an increase over the status quo, but rather only an increase over not storing the zip info at all.

---

5.6

---

\* Issue #242: Use absolute imports in `svn_utils` to avoid issues if the installing package adds an `xml` module to the path.

-----

5.5.1

-----

\* Issue #239: Fix typo in 5.5 such that fix did not take.

---

5.5

---

\* Issue #239: `Setuptools` now includes the `setup_requires` directive on `Distribution` objects and validates the syntax just like `install_requires` and `tests_require` directives.

-----

5.4.2

-----

\* Issue #236: Corrected regression in `execfile` implementation for Python 2.6.

-----

5.4.1

-----

\* Python #7776: (ssl\_support) Correct usage of host for validation when tunneling for HTTPS.

---  
5.4  
---

\* Issue #154: ``pkg\_resources`` will now cache the zip manifests rather than re-processing the same file from disk multiple times, but only if the environment variable ``PKG\_RESOURCES\_CACHE\_ZIP\_MANIFESTS`` is set. Clients that package many modules in the same zip file will see some improvement in startup time by enabling this feature. This feature is not enabled by default because it causes a substantial increase in memory usage.

---  
5.3  
---

\* Issue #185: Make svn tagging work on the new style SVN metadata.  
Thanks cazabon!  
\* Prune revision control directories (e.g .svn) from base path as well as sub-directories.

---  
5.2  
---

\* Added a `Developer Guide`\_ to the official documentation.  
<<https://pythonhosted.org/setuptools/developer-guide.html>>  
\* Some code refactoring and cleanup was done with no intended behavioral changes.  
\* During `install_egg_info`, the generated lines for namespace package `.pth` files are now processed even during a dry run.

---  
5.1  
---

\* Issue #202: Implemented more robust cache invalidation for the ZipImporter, building on the work in Issue #168. Special thanks to Jurko Gospodnetic and PJE.

-----

## 5.0.2

-----

\* Issue #220: Restored script templates.

-----

## 5.0.1

-----

\* Renamed script templates to end with .tmpl now that they no longer need to be processed by 2to3. Fixes spurious syntax errors during build/install.

---

## 5.0

---

\* Issue #218: Re-release of 3.8.1 to signal that it supersedes 4.x.  
\* Incidentally, script templates were updated not to include the triple-quote escaping.

-----

## 3.7.1 and 3.8.1 and 4.0.1

-----

\* Issue #213: Use legacy StringIO behavior for compatibility under pbr.  
\* Issue #218: Setuptools 3.8.1 superseded 4.0.1, and 4.x was removed from the available versions to install.

---

## 4.0

---

\* Issue #210: ``setup.py develop`` now copies scripts in binary mode rather than text mode, matching the behavior of the ``install`` command.

---

## 3.8

---

\* Extend Issue #197 workaround to include all Python 3 versions prior to 3.2.2.

---

## 3.7

---

\* Issue

#193: Improved handling of Unicode filenames when building manifests.

---  
3.6  
---

\* Issue #203: Honor proxy settings for Powershell downloader in the bootstrap routine.

-----  
3.5.2  
-----

\* Issue #168: More robust handling of replaced zip files and stale caches. Fixes ZipImportError complaining about a 'bad local header'.

-----  
3.5.1  
-----

\* Issue #199: Restored ``install.\_install`` for compatibility with earlier NumPy versions.

---  
3.5  
---

\* Issue #195: Follow symbolic links in find\_packages (restoring behavior broken in 3.4).

\* Issue #197: On Python 3.1, PKG-INFO is now saved in a UTF-8 encoding instead of ``sys.getpreferredencoding`` to match the behavior on Python 2.6-3.4.

\* Issue #192: Preferred bootstrap location is now [https://bootstrap.pypa.io/ez\\_setup.py](https://bootstrap.pypa.io/ez_setup.py) (mirrored from former location).

-----  
3.4.4  
-----

\* Issue #184: Correct failure where find\_package over-matched packages when directory traversal isn't short-circuited.

-----  
3.4.3  
-----

\* Issue #183: Really fix test command with Python 3.1.

-----

### 3.4.2

-----

\* Issue #183: Fix additional regression in test command on Python 3.1.

-----

### 3.4.1

-----

\* Issue #180: Fix regression in test command not caught by py.test-run tests.

---

## 3.4

---

\* Issue #176: Add parameter to the test command to support a custom test runner: --test-runner or -r.

\* Issue #177: Now assume most common invocation to install command on platforms/environments without stack support (issuing a warning). Setuptools now installs naturally on IronPython. Behavior on CPython should be unchanged.

---

## 3.3

---

\* Add ``include`` parameter to ``setuptools.find\_packages()``.

---

## 3.2

---

\* Pull Request #39: Add support for C++ targets from Cython ``.pyx`` files.

\* Issue #162: Update dependency on certifi to 1.0.1.

\* Issue #164: Update dependency on wincertstore to 0.2.

---

## 3.1

---

\* Issue #161: Restore Features functionality to allow backward compatibility (for Features) until the uses of that functionality is sufficiently removed.

-----

### 3.0.2

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\* Correct typo in previous bugfix.

-----  
3.0.1

-----  
\* Issue #157: Restore support for Python 2.6 in bootstrap script where  
`zipfile.ZipFile` does not yet have support for context managers.

---  
3.0  
---

\* Issue #125: Prevent Subversion support from creating a `~/.subversion` directory just for checking the presence of a Subversion repository.

\* Issue #12: Namespace packages are now imported lazily. That is, the mere declaration of a namespace package in an egg on `sys.path` no longer causes it to be imported when `pkg_resources` is imported. Note that this change means that all of a namespace package's `__init__.py` files must include a `declare_namespace()` call in order to ensure that they will be handled properly at runtime. In 2.x it was possible to get away without including the declaration, but only at the cost of forcing namespace packages to be imported early, which 3.0 no longer does.

\* Issue #148:

When building (bdist\_egg), setuptools no longer adds `__init__.py` files to namespace packages. Any packages that rely on this behavior will need to create `__init__.py` files and include the `declare_namespace()`.

\* Issue #7: Setuptools itself is now distributed as a zip archive in addition to tar archive. `ez_setup.py` now uses zip archive. This approach avoids the potential security vulnerabilities presented by use of tar archives in `ez_setup.py`.

It also leverages the security features added to `ZipFile.extract` in Python 2.7.4.

\* Issue #65: Removed deprecated Features functionality.

\* Pull Request #28: Remove backport of `_bytecode_filenames` which is available in Python 2.6 and later, but also has better compatibility with Python 3 environments.

\* Issue #156: Fix spelling of `__PYVENV_LAUNCHER__` variable.

---  
2.2  
---

\* Issue #141: Restored fix for allowing `setup_requires` dependencies to override installed dependencies during setup.

\* Issue #128: Fixed issue

where only the first dependency link was honored in a distribution where multiple dependency links were supplied.

-----

### 2.1.2

-----

\* Issue #144: Read long\_description using codecs module to avoid errors installing on systems where LANG=C.

-----

### 2.1.1

-----

\* Issue #139: Fix regression in re\_finder for CVS repos (and maybe Git repos as well).

---

## 2.1

---

\* Issue #129: Suppress inspection of ``\*.whl`` files when searching for files in a zip-imported file.

\* Issue #131: Fix RuntimeError when constructing an egg fetcher.

-----

### 2.0.2

-----

\* Fix NameError during installation with Python implementations (e.g. Jython) not containing parser module.

\* Fix NameError in ``sdist:re\_finder``.

-----

### 2.0.1

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\* Issue #124: Fixed error in list detection in upload\_docs.

---

## 2.0

---

\* Issue #121: Exempt lib2to3 pickled grammars from DirectorySandbox.

\* Issue #41: Dropped support for Python 2.4 and Python 2.5. Clients requiring setuptools for those versions of Python should use setuptools 1.x.

\* Removed ``setuptools.command.easy\_install.HAS\_USER\_SITE``. Clients expecting this boolean variable should use ``site.ENABLE\_USER\_SITE`` instead.



\* Removed `pkg_resources.ImpWrapper`. Clients that expected this class should use `pkgutil.ImpImporter` instead.

-----  
1.4.2

-----  
\* Issue #116: Correct `TypeError` when reading a local package index on Python 3.

-----  
1.4.1

-----  
\* Issue #114: Use `sys.getfilesystemencoding` for decoding config in `bdist_wininst` distributions.

\* Issue #105 and Issue #113: Establish a more robust technique for determining the terminal encoding::

1. Try `getpreferredencoding`
2. If that returns `US_ASCII` or `None`, try the encoding from `getdefaultlocale`. If that encoding was a "fallback" because Python could not figure it out from the environment or OS, encoding remains unresolved.
3. If the encoding is resolved, then make sure Python actually implements the encoding.
4. On the event of an error or unknown codec, revert to fallbacks (UTF-8 on Darwin, ASCII on everything else).
5. On the encoding is 'mac-roman' on Darwin, use UTF-8 as 'mac-roman' was a bug on older Python releases.

On a side note, it would seem that the encoding only matters for when SVN does not yet support `--xml` and when getting repository and svn version numbers. The `--xml` technique should yield UTF-8 according to some messages on the SVN mailing lists. So if the version numbers are always 7-bit ASCII clean, it may be best to only support the file parsing methods for legacy SVN releases and support for SVN without the subprocess command would simply go away as support for the older SVNs does.

---  
1.4  
---

\* Issue #27: `easy_install` will now use credentials from `.pypirc` if present for connecting to the package index.

\* Pull Request #21: Omit unwanted newlines in `package_index._encode_auth` when the username/password

pair length indicates wrapping.

-----  
1.3.2

-----  
\* Issue #99: Fix filename encoding issues in SVN support.

-----  
1.3.1

-----  
\* Remove exuberant warning in SVN support when SVN is not used.

---  
1.3

---  
\* Address security vulnerability in SSL match\_hostname check as reported in Python #17997.

\* Prefer `backports.ssl_match_hostname`

<[https://pypi.python.org/pypi/backports.ssl\\_match\\_hostname](https://pypi.python.org/pypi/backports.ssl_match_hostname)>\_ for backport implementation if present.

\* Correct NameError in `ssl_support` module (`socket.error`).

---  
1.2

---  
\* Issue #26: Add support for SVN 1.7. Special thanks to Philip Thiem for the contribution.

\* Issue #93: Wheels are now distributed with every release. Note that as reported in Issue #108, as of Pip 1.4, scripts aren't installed properly from wheels. Therefore, if using Pip to install setuptools from a wheel, the `easy_install` command will not be available.

\* Setuptools "natural" launcher support, introduced in 1.0, is now officially supported.

-----  
1.1.7

-----  
\*

Fixed behavior of NameError handling in 'script template (dev).py' (script launcher for 'develop' installs).

\* `ez_setup.py` now ensures partial downloads are cleaned up following a failed download.

\* Distribute #363 and Issue #55: Skip an sdist test that fails on locales

other than UTF-8.

-----  
1.1.6

-----

\* Distribute #349: ``sandbox.execfile`` now opens the target file in binary mode, thus honoring a BOM in the file when compiled.

-----  
1.1.5

-----

\* Issue #69: Second attempt at fix (logic was reversed).

-----  
1.1.4

-----

\* Issue #77: Fix error in upload command (Python 2.4).

-----  
1.1.3

-----

\* Fix NameError in previous patch.

-----  
1.1.2

-----

\* Issue #69: Correct issue where 404 errors are returned for URLs with fragments in them (such as #egg=).

-----  
1.1.1

-----

\* Issue #75: Add ``--insecure`` option to ez\_setup.py to accommodate environments where a trusted SSL connection cannot be validated.

\* Issue #76: Fix AttributeError in upload command with Python 2.4.

---  
1.1

---

\* Issue #71 (Distribute #333): EasyInstall now puts less emphasis on the

condition when a host is blocked via ``--allow-hosts``.

\* Issue #72: Restored Python 2.4 compatibility in ``ez\_setup.py``.

---  
1.0  
---

\* Issue #60: On Windows, Setuptools supports deferring to another launcher, such as Vinay Sajip's `pylauncher` <<https://bitbucket.org/pypa/pylauncher>>`\_ (included with Python 3.3) to launch console and GUI scripts and not install its own launcher executables. This experimental functionality is currently only enabled if the ``SETUPTOOLS\_LAUNCHER`` environment variable is set to "natural". In the future, this behavior may become default, but only after it has matured and seen substantial adoption. The ``SETUPTOOLS\_LAUNCHER`` also accepts "executable" to force the default behavior of creating launcher executables.

\* Issue #63: Bootstrap script (ez\_setup.py) now prefers Powershell, curl, or wget for retrieving the Setuptools tarball for improved security of the install. The script will still fall back to a simple ``urlopen`` on platforms that do not have these tools.

\* Issue #65: Deprecated the ``Features`` functionality.

\* Issue #52: In ``VerifyingHTTPSConn``, handle a tunnelled (proxied) connection.

#### Backward-Incompatible Changes

=====

This release includes a couple of backward-incompatible changes, but most if not all users will find 1.0 a drop-in replacement for 0.9.

\* Issue #50: Normalized API of environment marker support. Specifically, removed line number and filename from `SyntaxErrors` when returned from ``pkg_resources.invalid_marker``. Any clients depending on the specific string representation of exceptions returned by that function may need to be updated to account for this change.

\* Issue #50: `SyntaxErrors` generated by ``pkg_resources.invalid_marker`` are normalized for cross-implementation consistency.

\* Removed ``--ignore-conflicts-at-my-risk`` and ``--delete-conflicting`` options to `easy_install`. These options have been deprecated since 0.6a11.

-----  
0.9.8  
-----

\* Issue #53: Fix `NameErrors` in ``_vcs_split_rev_from_url``.

-----

0.9.7

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- \* Issue #49: Correct AttributeError on PyPy where a hashlib.HASH object does not have a `.name` attribute.
- \* Issue #34: Documentation now refers to bootstrap script in code repository referenced by bookmark.
- \* Add underscore-separated keys to environment markers (markerlib).

-----

0.9.6

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- \* Issue #44: Test failure on Python 2.4 when MD5 hash doesn't have a `.name` attribute.

-----

0.9.5

-----

- \* Python #17980: Fix security vulnerability in SSL certificate validation.

-----

0.9.4

-----

- \* Issue #43: Fix issue (introduced in 0.9.1) with version resolution when upgrading over other releases of Setuptools.

-----

0.9.3

-----

- \* Issue #42: Fix new `AttributeError` introduced in last fix.

-----

0.9.2

-----

- \* Issue #42: Fix regression where blank checksums would trigger an `AttributeError`.

-----

0.9.1

-----

\*

Distribute #386: Allow other positional and keyword arguments to os.open.

\* Corrected dependency on certifi mis-referenced in 0.9.

---

0.9

---

\* `package\_index` now validates hashes other than MD5 in download links.

---

0.8

---

\* Code base now runs on Python 2.4 - Python 3.3 without Python 2to3 conversion.

-----

0.7.8

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\* Distribute #375: Yet another fix for yet another regression.

-----

0.7.7

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\* Distribute #375: Repair AttributeError created in last release (redo).

\* Issue #30: Added test for get\_cache\_path.

-----

0.7.6

-----

\* Distribute #375: Repair AttributeError created in last release.

-----

0.7.5

-----

\* Issue #21: Restore Python 2.4 compatibility in ``test\_easy\_install``.

\* Distribute #375: Merged additional warning from Distribute 0.6.46.

\* Now honor the environment variable

``SETUPTOOLS\_DISABLE\_VERSIONED\_EASY\_INSTALL\_SCRIPT`` in addition to the now deprecated ``DISTRIBUTE\_DISABLE\_VERSIONED\_EASY\_INSTALL\_SCRIPT``.

-----

0.7.4

-----

\*

Issue #20: Fix comparison of parsed SVN version on Python 3.

-----

0.7.3

-----

\* Issue #1: Disable installation of Windows-specific files on non-Windows systems.

\* Use new sysconfig module with Python 2.7 or >=3.2.

-----

0.7.2

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\* Issue #14: Use markerlib when the `parser` module is not available.

\* Issue #10: ``ez\_setup.py`` now uses HTTPS to download setuptools from PyPI.

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0.7.1

-----

\* Fix NameError (Issue #3) again - broken in bad merge.

---

0.7

---

\* Merged Setuptools and Distribute. See docs/merge.txt for details.

Added several features that were slated for setuptools 0.6c12:

\* Index URL now defaults to HTTPS.

\* Added experimental environment marker support. Now clients may designate a PEP-426 environment marker for "extra" dependencies. Setuptools uses this feature in ``setup.py`` for optional SSL and certificate validation support on older platforms. Based on Distutils-SIG discussions, the syntax is somewhat tentative. There should probably be a PEP with a firmer spec before the feature should be considered suitable for use.

\* Added support for SSL certificate validation when installing packages from an HTTPS service.

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0.7b4

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\* Issue #3: Fixed NameError in SSL support.

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0.6.49  
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\* Move warning check in ``get\_cache\_path`` to follow the directory creation to avoid errors when the cache path does not yet exist. Fixes the error reported in Distribute #375.

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0.6.48  
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\* Correct AttributeError in ``ResourceManager.get\_cache\_path`` introduced in 0.6.46 (redo).

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0.6.47  
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\* Correct AttributeError in ``ResourceManager.get\_cache\_path`` introduced in 0.6.46.

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0.6.46  
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\* Distribute #375: Issue a warning if the PYTHON\_EGG\_CACHE or otherwise customized egg cache location specifies a directory that's group- or world-writable.

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0.6.45  
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\* Distribute #379: ``distribute\_setup.py`` now traps VersionConflict as well, restoring ability to upgrade from an older setuptools version.

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0.6.44  
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\* ``distribute\_setup.py`` has been updated to allow Setuptools 0.7 to satisfy use\_setuptools.

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0.6.43



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\* Distribute #378: Restore support for Python 2.4 Syntax (regression in 0.6.42).

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0.6.42  
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\* External links finder no longer yields duplicate links.  
\* Distribute #337: Moved site.py to setuptools/site-patch.py (graft of very old patch from setuptools trunk which inspired PR #31).

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0.6.41  
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\* Distribute #27: Use public api for loading resources from zip files rather than the private method `\_zip\_directory\_cache`.  
\* Added a new function ``easy\_install.get\_win\_launcher`` which may be used by third-party libraries such as buildout to get a suitable script launcher.

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0.6.40  
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\* Distribute #376: brought back cli.exe and gui.exe that were deleted in the previous release.

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0.6.39  
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\* Add support for console launchers on ARM platforms.  
\* Fix possible issue in GUI launchers where the subsystem was not supplied to the linker.  
\* Launcher build script now refactored for robustness.  
\* Distribute #375: Resources extracted from a zip egg to the file system now also check the contents of the file against the zip contents during each invocation of `get_resource_filename`.

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0.6.38  
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\* Distribute #371: The launcher manifest file is now installed properly.

0.6.37

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\* Distribute #143: Launcher scripts, including easy\_install itself, are now accompanied by a manifest on 32-bit Windows environments to avoid the Installer Detection Technology and thus undesirable UAC elevation described in `this Microsoft article`  
<<http://technet.microsoft.com/en-us/library/cc709628%28WS.10%29.aspx>>`\_.

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0.6.36

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\* Pull Request #35: In Buildout #64, it was reported that under Python 3, installation of distutils scripts could attempt to copy the `__pycache__` directory as a file, causing an error, apparently only under Windows. Easy\_install now skips all directories when processing metadata scripts.

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0.6.35

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Note this release is backward-incompatible with distribute 0.6.23-0.6.34 in how it parses version numbers.

\* Distribute #278: Restored compatibility with distribute 0.6.22 and setuptools 0.6. Updated the documentation to match more closely with the version parsing as intended in setuptools 0.6.

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0.6.34

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\* Distribute #341: 0.6.33 fails to build under Python 2.4.

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0.6.33

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\* Fix 2 errors with Jython 2.5.  
\* Fix 1 failure with Jython 2.5 and 2.7.  
\* Disable workaround for Jython scripts on Linux systems.  
\* Distribute #336: `setup.py` no longer masks failure exit code when tests fail.  
\* Fix issue in `pkg_resources` where `try/except` around a platform-dependent import would trigger hook load failures on Mercurial. See pull request 32

for details.

- \* Distribute #341: Fix a ResourceWarning.

-----  
0.6.32

- \* Fix test suite with Python 2.6.
- \* Fix some DeprecationWarnings and ResourceWarnings.
- \* Distribute #335: Backed out `setup\_requires` superceding installed requirements until regression can be addressed.

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0.6.31

- \* Distribute #303: Make sure the manifest only ever contains UTF-8 in Python 3.
- \* Distribute #329: Properly close files created by tests for compatibility with Jython.
- \* Work around Jython #1980 and Jython #1981.
- \* Distribute #334: Provide workaround for packages that reference `sys.\_\_stdout\_\_` such as numpy does. This change should address `virtualenv #359 <https://github.com/pypa/virtualenv/issues/359>` as long as the system encoding is UTF-8 or the IO encoding is specified in the environment, i.e.:

```
PYTHONIOENCODING=utf8 pip install numpy
```

- \* Fix for encoding issue when installing from Windows executable on Python 3.
- \* Distribute #323: Allow `setup\_requires` requirements to supercede installed requirements. Added some new keyword arguments to existing `pkg_resources` methods. Also had to updated how `__path__` is handled for namespace packages to ensure that when a new egg distribution containing a namespace package is placed on `sys.path`, the entries in `__path__` are found in the same order they would have been in had that egg been on the path when `pkg_resources` was first imported.

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0.6.30

- \* Distribute #328: Clean up temporary directories in `distribute_setup.py`.
- \* Fix fatal bug in `distribute_setup.py`.

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0.6.29

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- \* Pull Request #14: Honor file permissions in zip files.
- \* Distribute #327: Merged pull request #24 to fix a dependency problem with pip.
- \* Merged pull request #23 to fix <https://github.com/pypa/virtualenv/issues/301>.
- \* If Sphinx is installed, the `upload_docs` command now runs `build_sphinx` to produce uploadable documentation.
- \* Distribute #326: `upload_docs` provided mangled auth credentials under Python 3.
- \* Distribute #320: Fix check for "createable" in `distribute_setup.py`.
- \* Distribute #305: Remove a warning that was triggered during normal operations.
- \* Distribute #311: Print metadata in UTF-8 independent of platform.
- \* Distribute #303: Read manifest file with UTF-8 encoding under Python 3.
- \* Distribute #301: Allow to run tests of namespace packages when using 2to3.
- \* Distribute #304: Prevent import loop in `site.py` under Python 3.3.
- \* Distribute #283: Reenable scanning of `*.pyc` / `*.pyo` files on Python 3.3.
- \* Distribute #299: The `develop` command didn't work on Python 3, when using 2to3, as the egg link would go to the Python 2 source. Linking to the 2to3'd code in `build/lib` makes it work, although you will have to rebuild the module before testing it.
- \* Distribute #306: Even if 2to3 is used, we build in-place under Python 2.
- \* Distribute #307: Prints the full path when `.svn/entries` is broken.
- \* Distribute #313: Support for `sdist` subcommands (Python 2.7)
- \* Distribute #314: `test_local_index()` would fail on OS X.
- \* Distribute #310: Non-ascii characters in a namespace `__init__.py` causes errors.
- \*
- Distribute #218: Improved documentation on behavior of `package_data` and `include_package_data`. Files indicated by `package_data` are now included in the manifest.
- \* `distribute_setup.py` now allows a `--download-base` argument for retrieving distribute from a specified location.

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0.6.28

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- \* Distribute #294: `setup.py` can now be invoked from any directory.
- \* Scripts are now installed honoring the `umask`.
- \* Added support for `.dist-info` directories.
- \* Distribute #283: Fix and disable scanning of `*.pyc` / `*.pyo` files on Python 3.3.

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0.6.27

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- \* Support current snapshots of CPython 3.3.
- \* Distribute now recognizes `README.rst` as a standard, default readme file.

- \* Exclude 'encodings' modules when removing modules from sys.modules.  
Workaround for #285.
- \* Distribute #231: Don't fiddle with system python when used with buildout  
(bootstrap.py)

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0.6.26  
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- \* Distribute #183: Symlinked files are now extracted from source distributions.
- \* Distribute #227: Easy\_install fetch parameters are now passed during the installation of a source distribution; now fulfillment of setup\_requires dependencies will honor the parameters passed to easy\_install.

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0.6.25  
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- \* Distribute #258: Workaround a cache issue
- \* Distribute #260: distribute\_setup.py now accepts the --user parameter for Python 2.6 and later.
- \* Distribute #262: package\_index.open\_with\_auth no longer throws LookupError on Python 3.
- \* Distribute #269: AttributeError when an exception occurs reading Manifest.in on late releases of Python.
- \* Distribute #272: Prevent TypeError when namespace package names are unicode and single-install-externally-managed is used. Also fixes PIP issue 449.
- \* Distribute #273: Legacy script launchers now install with Python2/3 support.

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0.6.24  
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- \* Distribute #249: Added options to exclude 2to3 fixers

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0.6.23  
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- \* Distribute #244: Fixed a test
- \* Distribute #243: Fixed a test
- \* Distribute #239: Fixed a test
- \* Distribute #240: Fixed a test
- \* Distribute #241: Fixed a test
- \* Distribute #237: Fixed a test

- \* Distribute #238: easy\_install now uses 64bit executable wrappers on 64bit Python
- \* Distribute #208: Fixed parsed\_versions, it now honors post-releases as noted in the documentation
- \* Distribute #207: Windows cli and gui wrappers pass CTRL-C to child python process
- \* Distribute #227: easy\_install now passes its arguments to setup.py bdist\_egg
- \* Distribute #225: Fixed a NameError on Python 2.5, 2.4

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0.6.21  
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- \* Distribute #225: Fixed a regression on py2.4

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0.6.20  
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- \* Distribute #135: Include url in warning when processing URLs in package\_index.
- \* Distribute #212: Fix issue where easy\_instal fails on Python 3 on windows installer.
- \* Distribute #213: Fix typo in documentation.

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0.6.19  
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- \* Distribute #206: AttributeError: 'HTTPMessage' object has no attribute 'getheaders'

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0.6.18  
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- \* Distribute #210: Fixed a regression introduced by Distribute #204 fix.

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0.6.17  
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- \* Support 'DISTRIBUTE\_DISABLE\_VERSIONED\_EASY\_INSTALL\_SCRIPT' environment variable to allow to disable installation of easy\_install- $\{version\}$  script.
- \* Support Python  $\geq 3.1.4$  and  $\geq 3.2.1$ .
- \* Distribute #204: Don't try to import the parent of a namespace package in declare\_namespace
- \* Distribute #196: Tolerate responses with multiple Content-Length headers
- \* Distribute #205: Sandboxing doesn't preserve working\_set. Leads to setup\_requires problems.

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0.6.16  
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- \* Builds sdist gztar even on Windows (avoiding Distribute #193).
- \* Distribute #192: Fixed metadata omitted on Windows when package\_dir specified with forward-slash.
- \* Distribute #195: Cython build support.
- \* Distribute #200: Issues with recognizing 64-bit packages on Windows.

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0.6.15

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- \* Fixed typo in bdist\_egg
- \* Several issues under Python 3 has been solved.
- \* Distribute #146: Fixed missing DLL files after easy\_install of windows exe package.

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0.6.14

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- \*
- Distribute #170: Fixed unittest failure. Thanks to Toshio.
- \* Distribute #171: Fixed race condition in unittests cause deadlocks in test suite.
- \* Distribute #143: Fixed a lookup issue with easy\_install.  
Thanks to David and Zooko.
- \* Distribute #174: Fixed the edit mode when its used with setuptools itself

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0.6.13

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- \* Distribute #160: 2.7 gives ValueError("Invalid IPv6 URL")
- \* Distribute #150: Fixed using ~/.local even in a --no-site-packages virtualenv
- \* Distribute #163: scan index links before external links, and don't use the md5 when comparing two distributions

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0.6.12

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- \* Distribute #149: Fixed various failures on 2.3/2.4

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0.6.11

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- \* Found another case of SandboxViolation - fixed
- \* Distribute #15 and Distribute #48: Introduced a socket timeout of 15 seconds on url openings

- \* Added indexsidebar.html into MANIFEST.in
- \* Distribute #108: Fixed TypeError with Python3.1
- \* Distribute #121: Fixed --help install command trying to actually install.
- \* Distribute #112: Added an os.makedirs so that Tarek's solution will work.
- \* Distribute #133: Added --no-find-links to easy\_install
- \* Added easy\_install --user
- \* Distribute #100: Fixed develop --user not taking '.' in PYTHONPATH into account
- \* Distribute #134: removed spurious UserWarnings. Patch by VanLindberg
- \* Distribute #138: cant\_write\_to\_target error when setup\_requires is used.
- \* Distribute #147: respect the sys.dont\_write\_bytecode flag

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0.6.10

- \* Reverted change made for the DistributionNotFound exception because zc.buildout uses the exception message to get the name of the distribution.

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0.6.9

- \* Distribute #90: unknown setuptools version can be added in the working set
- \* Distribute #87: setup.py doesn't try to convert distribute\_setup.py anymore  
Initial Patch by arfrever.
- \* Distribute #89: added a side bar with a download link to the doc.
- \* Distribute #86: fixed missing sentence in pkg\_resources doc.
- \* Added a nicer error message when  
a DistributionNotFound is raised.
- \* Distribute #80: test\_develop now works with Python 3.1
- \* Distribute #93: upload\_docs now works if there is an empty sub-directory.
- \* Distribute #70: exec bit on non-exec files
- \* Distribute #99: now the standalone easy\_install command doesn't uses a  
"setup.cfg" if any exists in the working directory. It will use it  
only if triggered by ``install\_requires`` from a setup.py call  
(install, develop, etc).
- \* Distribute #101: Allowing ``os.devnull`` in Sandbox
- \* Distribute #92: Fixed the "no eggs" found error with MacPort  
(platform.mac\_ver() fails)
- \* Distribute #103: test\_get\_script\_header\_jython\_workaround not run  
anymore under py3 with C or POSIX local. Contributed by Arfrever.
- \* Distribute #104: removed the assertion when the installation fails,  
with a nicer message for the end user.
- \* Distribute #100: making sure there's no SandboxViolation when  
the setup script patches setuptools.



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0.6.8

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- \* Added "check\_packages" in dist. (added in Setuptools 0.6c11)
- \* Fixed the DONT\_PATCH\_SETUPTOOLS state.

-----

0.6.7

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- \* Distribute #58: Added --user support to the develop command
- \* Distribute #11: Generated scripts now wrap their call to the script entry point in the standard "if name == 'main'"
- \* Added the 'DONT\_PATCH\_SETUPTOOLS' environment variable, so virtualenv can drive an installation that doesn't patch a global setuptools.
- \* Reviewed unladen-swallow specific change from <http://code.google.com/p/unladen-swallow/source/detail?spec=svn875&r=719> and determined that it no longer applies. Distribute should work fine with Unladen Swallow 2009Q3.
- \* Distribute #21: Allow PackageIndex.open\_url to gracefully handle all cases of a `httplib.HTTPException` instead of just `InvalidURL` and `BadStatusLine`.
- \* Removed `virtual-python.py` from this distribution and updated documentation to point to the actively maintained `virtualenv` instead.
- \* Distribute #64: `use_setuptools` no longer rebuilds the distribute egg every time it is run
- \* `use_setuptools` now properly respects the requested version
- \* `use_setuptools` will no longer try to import a distribute egg for the wrong Python version
- \* Distribute #74: `no_fake` should be `True` by default.
- \* Distribute #72: avoid a bootstrapping issue with `easy_install -U`

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0.6.6

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- \* Unified the bootstrap file so it works on both `py2.x` and `py3k` without 2to3 (patch by Holger Krekel)

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0.6.5

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- \* Distribute #65: `cli.exe` and `gui.exe` are now generated at build time, depending on the platform in use.
- \* Distribute #67: Fixed doc typo (PEP 381/382)

\* Distribute no longer shadows setuptools if we require a 0.7-series setuptools. And an error is raised when installing a 0.7 setuptools with distribute.

\* When run from within buildout, no attempt is made to modify an existing setuptools egg, whether in a shared egg directory or a system setuptools.

\* Fixed a hole in sandboxing allowing builtin file to write outside of the sandbox.

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0.6.4

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\*

Added the generation of `distribute\_setup\_3k.py` during the release.  
This closes Distribute #52.

\* Added an `upload_docs` command to easily upload project documentation to PyPI's <https://pythonhosted.org>. This close issue Distribute #56.

\* Fixed a bootstrap bug on the `use_setuptools()` API.

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0.6.3

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setuptools

=====

\* Fixed a bunch of calls to `file()` that caused crashes on Python 3.

bootstrapping

=====

\* Fixed a bug in sorting that caused bootstrap to fail on Python 3.

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0.6.2

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setuptools

=====

\* Added Python 3 support; see `docs/python3.txt`.  
This closes Old Setuptools #39.

\* Added option to run 2to3 automatically when installing on Python 3.

This closes issue Distribute #31.

\* Fixed invalid usage of requirement.parse, that broke develop -d.

This closes Old Setuptools #44.

\* Fixed script launcher for 64-bit Windows.

This closes Old Setuptools #2.

\* KeyError when compiling extensions.

This closes Old Setuptools #41.

bootstrapping

=====

\*

Fixed bootstrap not working on Windows. This closes issue Distribute #49.

\* Fixed 2.6 dependencies. This closes issue Distribute #50.

\* Make sure setuptools is patched when running through easy\_install

This closes Old Setuptools #40.

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0.6.1

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setuptools

=====

\* package\_index.urlopen now catches BadStatusLine and malformed url errors.

This closes Distribute #16 and Distribute #18.

\* zip\_ok is now False by default. This closes Old Setuptools #33.

\* Fixed invalid URL error catching. Old Setuptools #20.

\* Fixed invalid bootstrapping with easy\_install installation (Distribute #40).

Thanks to Florian Schulze for the help.

\* Removed buildout/bootstrap.py. A new repository will create a specific bootstrap.py script.

bootstrapping

=====

\* The bootstrap process leave setuptools alone if detected in the system

and --root or --prefix is provided, but is not in the same location.

This closes Distribute #10.

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0.6  
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#### setuptools

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\*

Packages required at build time where not fully present at install time.

This closes Distribute #12.

\* Protected against failures in tarfile extraction. This closes Distribute #10.

\* Made Jython api\_tests.txt doctest compatible. This closes Distribute #7.

\* sandbox.py replaced builtin type file with builtin function open. This closes Distribute #6.

\* Immediately close all file handles. This closes Distribute #3.

\* Added compatibility with Subversion 1.6. This references Distribute #1.

#### pkg\_resources

=====

\* Avoid a call to /usr/bin/sw\_vers on OSX and use the official platform API instead. Based on a patch from ronaldoussoren. This closes issue #5.

\* Fixed a SandboxViolation for mkdir that could occur in certain cases. This closes Distribute #13.

\* Allow to find\_on\_path on systems with tight permissions to fail gracefully. This closes Distribute #9.

\* Corrected inconsistency between documentation and code of add\_entry. This closes Distribute #8.

\* Immediately close all file handles. This closes Distribute #3.

#### easy\_install

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\* Immediately close all file handles. This closes Distribute #3.

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0.6c9

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- \* Fixed a missing files problem when using Windows source distributions on non-Windows platforms, due to distutils not handling manifest file line endings correctly.
- \* Updated Pyrex support to work with Pyrex 0.9.6 and higher.
- \* Minor changes for Jython compatibility, including skipping tests that can't work on Jython.
- \* Fixed not installing eggs in ``install\_requires`` if they were also used for ``setup\_requires`` or ``tests\_require``.
- \* Fixed not fetching eggs in ``install\_requires`` when running tests.
- \* Allow ``ez\_setup.use\_setuptools()`` to upgrade existing setuptools installations when called from a standalone ``setup.py``.
- \* Added a warning if a namespace package is declared, but its parent package is not also declared as a namespace.
- \* Support Subversion 1.5
- \* Removed use of deprecated ``md5`` module if ``hashlib`` is available
- \* Fixed ``bdist\_wininst upload`` trying to upload the ``.exe`` twice
- \* Fixed ``bdist\_egg`` putting a ``native\_libs.txt`` in the source package's ``.egg-info``, when it should only be in the built egg's ``EGG-INFO``.
- \* Ensure that `_full_name` is set on all shared libs before extensions are checked for shared lib usage. (Fixes a bug in the experimental shared library build support.)
- \* Fix to allow unpacked eggs containing native libraries to fail more gracefully under Google App Engine (with an ``ImportError`` loading the C-based module, instead of getting a ``NameError``).

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0.6c7

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- \* Fixed ``distutils.filelist.findall()`` crashing on broken symlinks, and ``egg\_info`` command failing on new, uncommitted SVN directories.

\* Fix import problems with nested namespace packages installed via `--root` or `--single-version-externally-managed`, due to the parent package not having the child package as an attribute.

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0.6c6  
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\* Added `--egg-path` option to `develop` command, allowing you to force `.egg-link` files to use relative paths (allowing them to be shared across platforms on a networked drive).

\* Fix not building binary RPMs correctly.

\* Fix "eggsecutables" (such as `setuptools`' own egg) only being runnable with bash-compatible shells.

\* Fix `#!` parsing problems in Windows `.exe` script wrappers, when there was whitespace inside a quoted argument or at the end of the `#!` line (a regression introduced in 0.6c4).

\* Fix `test` command possibly failing if an older version of the project being tested was installed on `sys.path` ahead of the test source directory.

\* Fix `find_packages()` treating `ez_setup` and directories with `.` in their names as packages.

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0.6c5  
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\* Fix uploaded `bdist_rpm` packages being described as `bdist_egg` packages under Python versions less than 2.5.

\* Fix uploaded `bdist_wininst` packages being described as suitable for "any" version by Python 2.5, even if a `--target-version` was specified.

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0.6c4  
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\* Overhauled Windows script wrapping to support `bdist_wininst` better. Scripts installed with `bdist_wininst` will always use `#!python.exe` or `#!pythonw.exe` as the executable name (even when built on non-Windows platforms!), and the wrappers will look for the executable in the script's

parent directory (which should find the right version of Python).

- \* Fix ``upload`` command not uploading files built by ``bdist\_rpm`` or ``bdist\_wininst`` under Python 2.3 and 2.4.
- \* Add support for "eggsecutable" headers: a ``#!/bin/sh`` script that is prepended to an ``.egg`` file to allow it to be run as a script on Unix-ish platforms. (This is mainly so that setuptools itself can have a single-file installer on Unix, without doing multiple downloads, dealing with firewalls, etc.)
- \* Fix problem with empty revision numbers in Subversion 1.4 ``entries`` files
- \* Use cross-platform relative paths in ``easy-install.pth`` when doing ``develop`` and the source directory is a subdirectory of the installation target directory.
- \* Fix a problem installing eggs with a system packaging tool if the project contained an implicit namespace package; for example if the ``setup()`` listed a namespace package ``foo.bar`` without explicitly listing ``foo`` as a namespace package.

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0.6c3  
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- \* Fixed breakages caused by Subversion 1.4's new "working copy" format

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0.6c2  
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- \* The ``ez\_setup`` module displays the conflicting version of setuptools (and its installation location) when a script requests a version that's not available.
- \* Running ``setup.py develop`` on a setuptools-using project will now install setuptools if needed, instead of only downloading the egg.

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0.6c1  
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- \* Fixed ``AttributeError`` when trying to download a ``setup\_requires`` dependency when a distribution lacks a ``dependency\_links`` setting.

- \* Made ``zip-safe`` and ``not-zip-safe`` flag files contain a single byte, so as to play better with packaging tools that complain about zero-length files.
- \* Made ``setup.py develop`` respect the ``--no-deps`` option, which it previously was ignoring.
- \* Support ``extra\_path`` option to ``setup()`` when ``install`` is run in backward-compatibility mode.
- \* Source distributions now always include a ``setup.cfg`` file that explicitly sets ``egg\_info`` options such that they produce an identical version number to the source distribution's version number. (Previously, the default version number could be different due to the use of ``--tag-date``, or if the version was overridden on the command line that built the source distribution.)

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0.6b4  
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- \* Fix ``register`` not obeying name/version set by ``egg\_info`` command, if ``egg\_info`` wasn't explicitly run first on the same command line.
- \* Added ``--no-date`` and ``--no-svn-revision`` options to ``egg\_info`` command, to allow suppressing tags configured in ``setup.cfg``.
- \* Fixed redundant warnings about missing ``README`` file(s); it should now appear only if you are actually a source distribution.

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0.6b3  
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- \* Fix ``bdist\_egg`` not including files in subdirectories of ``.egg-info``.
- \* Allow ``.py`` files found by the ``include\_package\_data`` option to be automatically included. Remove duplicate data file matches if both ``include\_package\_data`` and ``package\_data`` are used to refer to the same files.

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0.6b1  
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- \* Strip ``module`` from the end of compiled extension modules when computing the name of a ``.py`` loader/wrapper. (Python's import machinery ignores



this suffix when searching for an extension module.)

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0.6a11

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- \* Added `test_loader` keyword to support custom test loaders
- \* Added `setuptools.file_finders` entry point group to allow implementing revision control plugins.
- \* Added `--identity` option to `upload` command.
- \* Added `dependency_links` to allow specifying URLs for `--find-links`.
- \* Enhanced test loader to scan packages as well as modules, and call `additional_tests()` if present to get non-unittest tests.
- \* Support namespace packages in conjunction with system packagers, by omitting the installation of any `__init__.py` files for namespace packages, and adding a special `.pth` file to create a working package in `sys.modules`.
- \* Made `--single-version-externally-managed` automatic when `--root` is used, so that most system packagers won't require special support for setuptools.
- \* Fixed `setup_requires`, `tests_require`, etc. not using `setup.cfg` or other configuration files for their option defaults when installing, and also made the install use `--multi-version` mode so that the project directory doesn't need to support `.pth` files.
- \* `MANIFEST.in` is now forcibly closed when any errors occur while reading it. Previously, the file could be left open and the actual error would be masked by problems trying to remove the open file on Windows systems.

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0.6a10

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- \* Fixed the `develop` command ignoring `--find-links`.

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0.6a9

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- \* The `sdist` command no longer uses the traditional `MANIFEST` file to create source distributions. `MANIFEST.in` is still read and processed, as are the standard defaults and pruning. But the manifest is built inside the project's `.egg-info` directory as `SOURCES.txt`, and it is rebuilt every time the `egg_info` command is run.
- \* Added the `include_package_data` keyword to `setup()`, allowing you to automatically include any package data listed in revision control or `MANIFEST.in`
- \* Added the `exclude_package_data` keyword to `setup()`, allowing you to trim back files included via the `package_data` and `include_package_data` options.
- \* Fixed `--tag-svn-revision` not working when run from a source distribution.
- \* Added warning for namespace packages with missing `declare_namespace()`
- \* Added `tests_require` keyword to `setup()`, so that e.g. packages requiring `nose` to run unit tests can make this dependency optional unless the `test` command is run.
- \* Made all commands that use `easy_install` respect its configuration options, as this was causing some problems with `setup.py install`.
- \* Added an `unpack_directory()` driver to `setuptools.archive_util`, so that you can process a directory tree through a processing filter as if it were a zipfile or tarfile.
- \* Added an internal `install_egg_info` command to use as part of old-style `install` operations, that installs an `.egg-info` directory with the package.
- \* Added a `--single-version-externally-managed` option to the `install` command so that you can more easily wrap a "flat" egg in a system package.
- \* Enhanced `bdist_rpm` so that it installs single-version eggs that don't rely on a `.pth` file. The `--no-egg` option has been removed, since all RPMs are now built in a more backwards-compatible format.
- \* Support full roundtrip translation of eggs to and from `bdist_wininst` format. Running `bdist_wininst` on a setuptools-based package wraps the egg in an `.exe` that will safely install it as an egg (i.e., with metadata and entry-point wrapper scripts), and `easy_install` can turn the `.exe` back into an `.egg` file or directory and install it as such.

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0.6a8  
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- \* Fixed some problems building extensions when Pyrex was installed, especially with Python 2.4 and/or packages using SWIG.
- \* Made ``develop`` command accept all the same options as ``easy\_install``, and use the ``easy\_install`` command's configuration settings as defaults.
- \* Made ``egg\_info --tag-svn-revision`` fall back to extracting the revision number from ``PKG-INFO`` in case it is being run on a source distribution of a snapshot taken from a Subversion-based project.
- \* Automatically detect ``.dll``, ``.so`` and ``.dylib`` files that are being installed as data, adding them to ``native\_libs.txt`` automatically.
- \* Fixed some problems with fresh checkouts of projects that don't include ``.egg-info/PKG-INFO`` under revision control and put the project's source code directly in the project directory. If such a package had any requirements that get processed before the ``egg\_info`` command can be run, the setup scripts would fail with a "Missing 'Version:' header and/or PKG-INFO file" error, because the egg runtime interpreted the unbuilt metadata in a directory on ``sys.path`` (i.e. the current directory) as being a corrupted egg. Setuptools now monkeypatches the distribution metadata cache to pretend that the egg has valid version information, until it has a chance to make it actually be so (via the ``egg\_info`` command).

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0.6a5  
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- \* Fixed missing gui/cli .exe files in distribution. Fixed bugs in tests.

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0.6a3  
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- \* Added ``gui\_scripts`` entry point group to allow installing GUI scripts on Windows and other platforms. (The special handling is only for Windows; other platforms are treated the same as for ``console\_scripts``.)

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0.6a2

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\* Added `console_scripts` entry point group to allow installing scripts without the need to create separate script files. On Windows, console scripts get an `.exe` wrapper so you can just type their name. On other platforms, the scripts are written without a file extension.

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0.6a1

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\* Added support for building "old-style" RPMs that don't install an egg for the target package, using a `--no-egg` option.

\* The `build_ext` command now works better when using the `--inplace` option and multiple Python versions.  
It now makes sure that all extensions match the current Python version, even if newer copies were built for a different Python version.

\* The `upload` command no longer attaches an extra `.zip` when uploading eggs, as PyPI now supports egg uploads without trickery.

\* The `ez_setup` script/module now displays a warning before downloading the setuptools egg, and attempts to check the downloaded egg against an internal MD5 checksum table.

\* Fixed the `--tag-svn-revision` option of `egg_info` not finding the latest revision number; it was using the revision number of the directory containing `setup.py`, not the highest revision number in the project.

\* Added `eager_resources` setup argument

\* The `sdist` command now recognizes Subversion "deleted file" entries and does not include them in source distributions.

\* `setuptools` now embeds itself more thoroughly into the distutils, so that other distutils extensions (e.g. `py2exe`, `py2app`) will subclass `setuptools` versions of things, rather than the native distutils ones.

\* Added `entry_points` and `setup_requires` arguments to `setup()`; `setup_requires` allows you to automatically find and download packages that are needed in order to *build* your project (as opposed to running it).

\* `setuptools` now finds its commands, `setup()` argument validators, and metadata writers using entry points, so that they can be extended by third-party packages. See `Creating distutils Extensions`

<<http://pythonhosted.org/setuptools/setuptools.html#creating-distutils-extensions>>`\_`  
for more details.

\* The vestigial ``depends`` command has been removed. It was never finished or documented, and never would have worked without EasyInstall - which it pre-dated and was never compatible with.

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0.5a12

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\* The zip-safety scanner now checks for modules that might be used with ``python -m``, and marks them as unsafe for zipping, since Python 2.4 can't handle ``-m`` on zipped modules.

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0.5a11

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\* Fix breakage of the "develop" command that was caused by the addition of ``--always-unzip`` to the ``easy\_install`` command.

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0.5a9

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\* Include ``svn:externals`` directories in source distributions as well as normal subversion-controlled files and directories.

\* Added ``exclude=patternlist`` option to ``setuptools.find\_packages()``

\* Changed --tag-svn-revision to include an "r" in front of the revision number for better readability.

\* Added ability to build eggs without including source files (except for any scripts, of course), using the ``--exclude-source-files`` option to ``bdist\_egg``.

\* ``setup.py install`` now automatically detects when an "unmanaged" package or module is going to be on ``sys.path`` ahead of a package being installed, thereby preventing the newer version from being imported. If this occurs, a warning message is output to ``sys.stderr``, but installation proceeds anyway. The warning message informs the user what files or directories need deleting, and advises them they can also use EasyInstall (with the ``--delete-conflicting`` option) to do it automatically.

\* The `egg_info` command now adds a `top_level.txt` file to the metadata directory that lists all top-level modules and packages in the distribution. This is used by the `easy_install` command to find possibly-conflicting "unmanaged" packages when installing the distribution.

\* Added `zip_safe` and `namespace_packages` arguments to `setup()`. Added package analysis to determine zip-safety if the `zip_safe` flag is not given, and advise the author regarding what code might need changing.

\* Fixed the swapped `-d` and `-b` options of `bdist_egg`.

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0.5a8  
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\* The `egg_info` command now always sets the distribution metadata to "safe" forms of the distribution name and version, so that distribution files will be generated with parseable names (i.e., ones that don't include '-' in the name or version). Also, this means that if you use the various `--tag` options of `egg_info`, any distributions generated will use the tags in the version, not just egg distributions.

\* Added support for defining command aliases in distutils configuration files, under the `[aliases]` section. To prevent recursion and to allow aliases to call the command of the same name, a given alias can be expanded only once per command-line invocation. You can define new aliases with the `alias` command, either for the local, global, or per-user configuration.

\* Added `rotate` command to delete old distribution files, given a set of patterns to match and the number of files to keep. (Keeps the most recently-modified distribution files matching each pattern.)

\* Added `saveopts` command that saves all command-line options for the current invocation to the local, global, or per-user configuration file. Useful for setting defaults without having to hand-edit a configuration file.

\* Added a `setopt` command that sets a single option in a specified distutils configuration file.

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0.5a7  
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\* Added `upload` support for egg and source distributions, including a bug fix for `upload` and a temporary workaround for lack of .egg support in PyPI.

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0.5a6  
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\* Beefed up the "sdist" command so that if you don't have a MANIFEST.in, it will include all files under revision control (CVS or Subversion) in the current directory, and it will regenerate the list every time you create a source distribution, not just when you tell it to. This should make the default "do what you mean" more often than the distutils' default behavior did, while still retaining the old behavior in the presence of MANIFEST.in.

\* Fixed the "develop" command always updating .pth files, even if you specified ``-n`` or ``--dry-run``.

\* Slightly changed the format of the generated version when you use ``--tag-build`` on the "egg\_info" command, so that you can make tagged revisions compare \*lower\* than the version specified in setup.py (e.g. by using ``--tag-build=dev``).

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0.5a5  
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\* Added ``develop`` command to ``setuptools``-based packages. This command installs an ``.egg-link`` pointing to the package's source directory, and script wrappers that ``execfile()`` the source versions of the package's scripts. This lets you put your development checkout(s) on sys.path without having to actually install them. (To uninstall the link, use ``setup.py develop --uninstall``.)

\* Added ``egg\_info`` command to ``setuptools``-based packages. This command just creates or updates the "projectname.egg-info" directory, without building an egg. (It's used by the ``bdist\_egg``, ``test``, and ``develop`` commands.)

\* Enhanced the ``test`` command so that it doesn't install the package, but instead builds any C extensions in-place, updates the ``.egg-info`` metadata, adds the source directory to ``sys.path``, and runs the tests directly on the source. This avoids an "unmanaged" installation of the package to ``site-packages`` or elsewhere.

\* Made ``easy\_install`` a standard ``setuptools`` command, moving it from the ``easy\_install`` module to ``setuptools.command.easy\_install``. Note that if you were importing or extending it, you must now change your imports accordingly. ``easy\_install.py`` is still installed as a script, but not as a module.

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0.5a4  
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\* Setup scripts using setuptools can now list their dependencies directly in the setup.py file, without having to manually create a ``depends.txt`` file. The ``install\_requires`` and ``extras\_require`` arguments to ``setup()`` are used to create a dependencies file automatically. If you are manually creating ``depends.txt`` right now, please switch to using these setup arguments as soon as practical, because ``depends.txt`` support will be removed in the 0.6 release cycle. For documentation on the new arguments, see the ``setuptools.dist.Distribution`` class.

\* Setup scripts using setuptools now always install using ``easy\_install`` internally, for ease of uninstallation and upgrading.

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0.5a1  
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\* Added support for "self-installation" bootstrapping. Packages can now include ``ez\_setup.py`` in their source distribution, and add the following to their ``setup.py``, in order to automatically bootstrap installation of setuptools as part of their setup process::

```
from ez_setup import use_setuptools
use_setuptools()
```

```
from setuptools import setup
etc...
```

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0.4a2  
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\* Added ``ez\_setup.py`` installer/bootstrap script to make initial setuptools installation easier, and to allow distributions using setuptools to avoid having to include setuptools in their source distribution.

\* All downloads are now managed by the ``PackageIndex`` class (which is now subclassable and replaceable), so that embedders can more easily override download logic, give download progress reports, etc. The class has also been moved to the new ``setuptools.package\_index`` module.

\* The ``Installer`` class no longer handles downloading, manages a temporary



directory, or tracks the ``zip\_ok`` option. Downloading is now handled by ``PackageIndex``, and ``Installer`` has become an ``easy\_install`` command class based on ``setuptools.Command``.

\* There is a new ``setuptools.sandbox.run\_setup()`` API to invoke a setup script in a directory sandbox, and a new ``setuptools.archive\_util`` module with an ``unpack\_archive()`` API. These were split out of EasyInstall to allow reuse by other tools and applications.

\* ``setuptools.Command`` now supports reinitializing commands using keyword arguments to set/reset options. Also, ``Command`` subclasses can now set their ``command\_consumes\_arguments`` attribute to ``True`` in order to receive an ``args`` option containing the rest of the command line.

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0.3a2  
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\* Added new options to ``bdist\_egg`` to allow tagging the egg's version number with a subversion revision number, the current date, or an explicit tag value. Run ``setup.py bdist\_egg --help`` to get more information.

\* Misc. bug fixes

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0.3a1  
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\* Initial release.

Found in path(s):

\* /opt/cola/permits/1155085362\_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/CHANGES.txt

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

=====  
Building and Distributing Packages with Setuptools  
=====

``Setuptools`` is a collection of enhancements to the Python ``distutils`` (for Python 2.6 and up) that allow developers to more easily build and distribute Python packages, especially ones that have dependencies on other packages.

Packages built and distributed using ``setuptools`` look to the user like ordinary Python packages based on the ``distutils``. Your users don't need to install or even know about setuptools in order to use them, and you don't have to include the entire setuptools package in your distributions. By

including just a single `bootstrap module`_` (a 12K .py file), your package will automatically download and install setuptools` if the user is building your package from source and doesn't have a suitable version already installed.`

`.. _bootstrap`

module: [https://bootstrap.pypa.io/ez\\_setup.py](https://bootstrap.pypa.io/ez_setup.py)

#### Feature Highlights:

- \* Automatically find/download/install/upgrade dependencies at build time using the `EasyInstall tool <easy_install.html>`_``, which supports downloading via HTTP, FTP, Subversion, and SourceForge, and automatically scans web pages linked from PyPI to find download links. (It's the closest thing to CPAN currently available for Python.)
- \* Create `Python Eggs <http://peak.telecommunity.com/DevCenter/PythonEggs>`_`` - a single-file importable distribution format
- \* Enhanced support for accessing data files hosted in zipped packages.
- \* Automatically include all packages in your source tree, without listing them individually in `setup.py`
- \* Automatically include all relevant files in your source distributions, without needing to create a `MANIFEST.in` file, and without having to force regeneration of the `MANIFEST` file when your source tree changes.`
- \* Automatically generate wrapper scripts or Windows (console and GUI) `.exe` files for any number of "main" functions in your project. (Note: this is not a py2exe replacement; the `.exe` files rely on the local Python installation.)
- \* Transparent Pyrex support, so that your `setup.py` can list `.pyx` files and still work even when the end-user doesn't have Pyrex installed (as long as you include the Pyrex-generated C in your source distribution)`
- \* Command aliases - create project-specific, per-user, or site-wide shortcut names for commonly used commands and options
- \* PyPI upload support - upload your source distributions and eggs to PyPI
- \* Deploy your project in "development mode", such that it's available on `sys.path` , yet can still be edited directly from its source checkout.`
- \* Easily extend the distutils with new commands or `setup()` arguments, and distribute/reuse your extensions for multiple projects, without copying code.`
- \* Create extensible applications and frameworks that automatically discover

extensions,  
using simple "entry points" declared in a project's setup script.

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>

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.. \_ez\_setup.py: `bootstrap module`\_

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Installing ``setuptools``

=====

Please follow the `EasyInstall Installation Instructions`\_ to install the current stable version of setuptools. In particular, be sure to read the section on `Custom Installation Locations`\_ if you are installing anywhere other than Python's ``site-packages`` directory.

.. \_EasyInstall Installation Instructions: [easy\\_install.html#installation-instructions](http://easy_install.html#installation-instructions)

..

\_Custom Installation Locations: [easy\\_install.html#custom-installation-locations](http://easy_install.html#custom-installation-locations)

If you want the current in-development version of setuptools, you should first install a stable version, and then run::

```
ez_setup.py setuptools==dev
```

This will download and install the latest development (i.e. unstable) version of setuptools from the Python Subversion sandbox.

Basic Use

=====

For basic use of setuptools, just import things from setuptools instead of the distutils. Here's a minimal setup script using setuptools::

```

from setuptools import setup, find_packages
setup(
 name = "HelloWorld",
 version = "0.1",
 packages = find_packages(),
)

```

As you can see, it doesn't take much to use setuptools in a project. Just by doing the above, this project will be able to produce eggs, upload to PyPI, and automatically include all packages in the directory where the setup.py lives. See the `Command Reference`\_ section below to see what commands you can give to this setup script.

Of course, before you release your project to PyPI, you'll want to add a bit more information to your setup script to help people find or learn about your project. And maybe your project will have grown by then to include a few dependencies, and perhaps some data files and scripts::

```

from setuptools import setup, find_packages
setup(
 name = "HelloWorld",
 version = "0.1",
 packages = find_packages(),
 scripts = ['say_hello.py'],

 # Project uses reStructuredText, so ensure that the docutils get
 # installed or upgraded on the target machine
 install_requires = ['docutils>=0.3'],

 package_data = {
 # If any package contains *.txt or *.rst files, include them:
 '*': ['*.txt', '*.rst'],
 # And include any *.msg files found in the 'hello' package, too:
 'hello': ['*.msg'],
 },

 # metadata for upload to PyPI
 author = "Me",
 author_email = "me@example.com",
 description = "This is an Example Package",
 license = "PSF",
 keywords = "hello world example examples",
 url = "http://example.com/HelloWorld/", # project home page, if any

 # could also include long_description, download_url, classifiers, etc.
)

```

In the sections that follow, we'll explain what most of these `setup()` arguments do (except for the metadata ones), and the various ways you might use them in your own project(s).

## Specifying Your Project's Version

-----

Setuptools can work well with most versioning schemes; there are, however, a few special things to watch out for, in order to ensure that setuptools and EasyInstall can always tell what version of your package is newer than another version. Knowing these things will also help you correctly specify what versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release or post-release tags. A release number is a series of digits punctuated by dots, such as `2.4` or `0.5`. Each series of digits is treated numerically, so releases `2.1` and `2.1.0` are different ways to spell the same release number, denoting the first subrelease of release 2. But `2.10` is the *tenth* subrelease of release 2, and so is a different and newer release from `2.1` or `2.1.0`. Leading zeros within a series of digits are also ignored, so `2.01` is the same as `2.1`, and different from `2.0.1`.

Following a release number, you can have either a pre-release or post-release tag. Pre-release tags make a version be considered *older* than the version they are appended to. So, revision `2.4` is *newer* than revision `2.4c1`, which in turn is newer than `2.4b1` or `2.4a1`. Postrelease tags make a version be considered *newer* than the version they are appended to. So, revisions like `2.4-1` and `2.4pl3` are newer than `2.4`, but are *older* than `2.4.1` (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before "final". Some examples of prerelease tags would include `alpha`, `beta`, `a`, `c`, `dev`, and so on. You do not have to place a dot or dash before the prerelease tag if it's immediately after a number, but it's okay to do so if you prefer. Thus, `2.4c1` and `2.4.c1` and `2.4-c1` all represent release candidate 1 of version `2.4`, and are treated as identical by setuptools.

In addition, there are three special prerelease tags that are treated as if they were the letter `c`: `pre`, `preview`, and `rc`. So, version `2.4rc1`, `2.4pre1` and `2.4preview1` are all the exact same version as `2.4c1`, and are treated as identical by setuptools.

A post-release tag is either a series of letters that are alphabetically

greater than or equal to "final", or a dash (`-`). Post-release tags are generally used

to separate patch numbers, port numbers, build numbers, revision numbers, or date stamps from the release number. For example, the version ``2.4-r1263`` might denote Subversion revision 1263 of a post-release patch of version ``2.4``. Or you might use ``2.4-20051127`` to denote a date-stamped post-release.

Notice that after each pre or post-release tag, you are free to place another release number, followed again by more pre- or post-release tags. For example, ``0.6a9.dev-r41475`` could denote Subversion revision 41475 of the in-development version of the ninth alpha of release 0.6. Notice that ``dev`` is a pre-release tag, so this version is a *lower* version number than ``0.6a9``, which would be the actual ninth alpha of release 0.6. But the ``-r41475`` is a post-release tag, so this version is *newer* than ``0.6a9.dev``.

For the most part, `setuptools`' interpretation of version numbers is intuitive, but here are a few tips that will keep you out of trouble in the corner cases:

\*

Don't stick adjoining pre-release tags together without a dot or number between them. Version ``1.9adev`` is the ``adev`` prerelease of ``1.9``, *not* a development pre-release of ``1.9a``. Use ``.dev`` instead, as in ``1.9a.dev``, or separate the prerelease tags with a number, as in ``1.9a0dev``, ``1.9a.dev``, ``1.9a0dev``, and even ``1.9.a.dev`` are identical versions from `setuptools`' point of view, so you can use whatever scheme you prefer.

\* If you want to be certain that your chosen numbering scheme works the way you think it will, you can use the ```pkg_resources.parse_version()``` function to compare different version numbers::

```
>>> from pkg_resources import parse_version
>>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
True
>>> parse_version('2.1-rc2') < parse_version('2.1')
True
>>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
True
```

Once you've decided on a version numbering scheme for your project, you can

have `setuptools` automatically tag your in-development releases with various pre- or post-release tags. See the following sections for more details:

- \* `Tagging and "Daily Build" or "Snapshot" Releases`_`
- \* `Managing "Continuous Releases" Using Subversion`_`
- \* The `egg_info`_` command

## New and Changed ``setup()`` Keywords

=====

The following keyword arguments to ``setup()`` are added or changed by ``setuptools``. All of them are optional; you do not have to supply them unless you need the associated ``setuptools`` feature.

### ``include\_package\_data``

If set to ``True``, this tells ``setuptools`` to automatically include any data files it finds inside your package directories, that are either under CVS or Subversion control, or which are specified by your ``MANIFEST.in`` file. For more information, see the section below on `Including Data Files`\_.

### ``exclude\_package\_data``

A dictionary mapping package names to lists of glob patterns that should be *excluded* from your package directories. You can use this to trim back any excess files included by ``include\_package\_data``. For a complete description and examples, see the section below on `Including Data Files`\_.

### ``package\_data``

A dictionary mapping package names to lists of glob patterns. For a complete description and examples, see the section below on `Including Data Files`\_. You do not need to use this option if you are using ``include\_package\_data``, unless you need to add e.g. files that are generated by your setup script and build process. (And are therefore not in source control or are files that you don't want to include in your source distribution.)

### ``zip\_safe``

A boolean (True or False) flag specifying whether the project can be safely installed and run from a zip file. If this argument is not supplied, the ``bdist\_egg`` command will have to analyze all of your project's contents for possible problems each time it builds an egg.

### ``install\_requires``

A string or list of strings specifying what other distributions need to be installed when this one is. See the section below on `Declaring Dependencies`\_ for details and examples of the format of this argument.

### ``entry\_points``

A dictionary mapping entry point group names to strings or lists of strings defining the entry points. Entry points are used to support dynamic discovery of services or plugins provided by a project. See `Dynamic

Discovery of Services and Plugins`\_ for details and examples of the format of this argument. In addition, this keyword is used to support `Automatic Script Creation`\_.

```extras_require```

A dictionary mapping names of "extras" (optional features of your project) to strings or lists of strings specifying what other distributions must be installed to support those features. See the section below on `Declaring Dependencies`_ for details and examples of the format of this argument.

```setup_requires```

A string or list of strings specifying what other distributions need to be present in order for the `*setup script*` to run. ```setuptools``` will attempt to obtain these (even going so far as to download them using ```EasyInstall```) before processing the rest of the setup script or commands. This argument is needed if you are using distutils extensions as part of your build process; for example, extensions that process `setup()` arguments and turn them into EGG-INFO metadata files.

(Note: projects listed in ```setup_requires``` will NOT be automatically installed on the system where the setup script is being run. They are simply downloaded to the `./eggs` directory if they're not locally available already. If you want them to be installed, as well as being available when the setup script is run, you should add them to ```install_requires``` `**and**` ```setup_requires```.)

```dependency_links```

A list of strings naming URLs to be searched when satisfying dependencies. These links will be used if needed to install packages specified by ```setup_requires``` or ```tests_require```. They will also be written into the egg's metadata for use by tools like EasyInstall to use when installing an ```.egg``` file.

```namespace_packages```

A list of strings naming the project's "namespace packages". A namespace package is a package that may be split across multiple project distributions. For example, Zope 3's ```zope``` package is a namespace package, because subpackages like ```zope.interface``` and ```zope.publisher``` may be distributed separately. The egg runtime system can automatically merge such subpackages into a single parent package at runtime, as long as you declare them in each project that contains any subpackages of the namespace package, and as long as the namespace package's ```__init__.py``` does not contain any code other than a namespace declaration. See the section below on `Namespace Packages`\_ for more information.

```test_suite```


A string naming a `unittest.TestCase` subclass (or a package or module containing one or more of them, or a method of such a subclass), or naming a function that can be called with no arguments and returns a `unittest.TestSuite`. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the results are added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test_` command to run the specified test suite, e.g. via `setup.py test`. See the section on the `test_` command below for more details.

`tests_require`

If your project's tests need one or more additional packages besides those needed to install it, you can use this option to specify them. It should be a string or list of strings specifying what other distributions need to be present for the package's tests to run. When you run the `test` command, `setuptools` will attempt to obtain these (even going so far as to download them using `EasyInstall`). Note that these required projects will *not* be installed on the system where the tests are run, but only downloaded to the project's setup directory if they're not already installed locally.

`.. _test_loader:`

`test_loader`

If you would like to use a different way of finding tests to run than what `setuptools` normally uses, you can specify a module name and class name in this argument. The named class must be instantiable with no arguments, and its instances must support the `loadTestsFromNames()` method as defined in the Python `unittest` module's `TestLoader` class. `Setuptools` will pass only one test "name" in the `names` argument:

the value supplied for

the `test_suite` argument. The loader you specify may interpret this string in any way it likes, as there are no restrictions on what may be contained in a `test_suite` string.

The module name and class name must be separated by a `:`. The default value of this argument is `setuptools.command.test:ScanningLoader`. If you want to use the default `unittest` behavior, you can specify `unittest:TestLoader` as your `test_loader` argument instead. This will prevent automatic scanning of submodules and subpackages.

The module and class you specify here may be contained in another package, as long as you use the `tests_require` option to ensure that the package containing the loader class is available when the `test` command is run.

```eager_resources```

A list of strings naming resources that should be extracted together, if any of them is needed, or if any C extensions included in the project are imported. This argument is only useful if the project will be installed as a zipfile, and there is a need to have all of the listed resources be extracted to the filesystem *as a unit*. Resources listed here should be '/'-separated paths, relative to the source root, so to list a resource ```foo.png``` in package ```bar.baz```, you would include the string ```bar/baz/foo.png``` in this argument.

If you only need to obtain resources one at a time, or you don't have any C extensions that access other files in the project (such as data files or shared libraries), you probably do NOT need this argument and shouldn't mess with it. For more details on how this argument works, see the section below on ```Automatic Resource Extraction```.

```use_2to3```

Convert the source code from Python 2 to Python 3 with 2to3 during the build process. See `:doc:python3`` for more details.

```convert_2to3_doctests```

List of doctest source files that need to be converted with 2to3. See `:doc:python3`` for more details.

```use_2to3_fixers```

A list of modules to search for additional fixers to be used during the 2to3 conversion. See `:doc:python3`` for more details.

Using ```find_packages()```

For simple projects, it's usually easy enough to manually add packages to the ```packages``` argument of ```setup()```. However, for very large projects (Twisted, PEAK, Zope, Chandler, etc.), it can be a big burden to keep the package list updated. That's what ```setuptools.find_packages()``` is for.

```find_packages()``` takes a source directory and two lists of package name patterns to exclude and include. If omitted, the source directory defaults to the same directory as the setup script. Some projects use a ```src``` or ```lib``` directory as the root of their source tree, and those projects would of course use ```"src"``` or ```"lib"``` as the first argument to ```find_packages()```. (And such projects also need something like ```package_dir = {'src'}``` in their ```setup()``` arguments, but that's just a normal distutils thing.)

Anyway, `find_packages()` walks the target directory, filtering by inclusion patterns, and finds Python packages (any directory). On Python 3.2 and earlier, packages are only recognized if they include an `__init__.py` file. Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including wildcards. For example, `find_packages(exclude=["*.tests"])` will exclude all packages whose last name part is `tests`. Or, `find_packages(exclude=["*.tests", "*.tests.*"])` will also exclude any subpackages of packages named `tests`, but it still won't exclude a top-level `tests` package or the children thereof. In fact, if you really want no `tests` packages at all, you'll need something like this::

```
find_packages(exclude=["*.tests", "*.tests.*", "tests.*", "tests"])
```

in order to cover all the bases. Really, the exclusion patterns are intended to cover simpler use cases than this, like excluding a single, specified package and its subpackages.

Regardless of the parameters, the `find_packages()` function returns a list of package names suitable for use as the `packages` argument to `setup()`, and so is usually the easiest way to set that argument in your setup script. Especially since it frees you from having to remember to modify your setup script whenever your project grows additional top-level packages or subpackages.

#### Automatic Script Creation

=====

Packaging and installing scripts can be a bit awkward with the distutils. For one thing, there's no easy way to have a script's filename match local conventions on both Windows and POSIX platforms. For another, you often have to create a separate file just for the "main" script, when your actual "main" is a function in a module somewhere. And even in Python 2.4, using the `-m` option only works for actual `.py` files that aren't installed in a package.

`setuptools` fixes all of these problems by automatically generating scripts for you with the correct extension, and on Windows it will even create an `.exe` file so that users don't have to change their `PATHEXT` settings. The way to use this feature is to define "entry points" in your setup script that indicate what function the generated script should import and run. For example, to create two console scripts called `foo` and `bar`, and a GUI script called `baz`, you might do something like this::

```

setup(
 # other arguments here...
 entry_points={
 'console_scripts': [
 'foo = my_package.some_module:main_func',
 'bar = other_module:some_func',
],
 'gui_scripts': [
 'baz = my_package_gui:start_func',
]
 }
)

```

When this project is installed on non-Windows platforms (using "setup.py install", "setup.py develop", or by using EasyInstall), a set of ``foo``, ``bar``, and ``baz`` scripts will be installed that import ``main\_func`` and ``some\_func`` from the specified modules. The functions you specify are called with no arguments, and their return value is passed to ``sys.exit()``, so you can return an errorlevel or message to print to stderr.

On Windows, a set of ``foo.exe``, ``bar.exe``, and ``baz.exe`` launchers are created, alongside a set of ``foo.py``, ``bar.py``, and ``baz.pyw`` files. The ``.exe`` wrappers find and execute the right version of Python to run the ``.py`` or ``.pyw`` file.

You may define as many "console script" and "gui script" entry points as you like, and each one can optionally specify "extras" that it depends on, that will be added to ``sys.path`` when the script is run. For more information on "extras", see the section below on `Declaring Extras`\_. For more information on "entry points" in general, see the section below on `Dynamic Discovery of Services and Plugins`\_.

#### "Eggsecutable" Scripts

-----

Occasionally, there are situations where it's desirable to make an ``.egg`` file directly executable. You can do this by including an entry point such as the following::

```

setup(
 # other arguments here...
 entry_points = {
 'setuptools.installation': [
 'eggsecutable = my_package.some_module:main_func',
]
 }
)

```

```
]
}
)
```

Any eggs built from the above setup script will include a short executable prelude that imports and calls `main_func()` from `my_package.some_module`. The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with `/bin/sh`, or by enabling execute permissions on the `.egg` file. For the executable prelude to run, the appropriate version of Python must be available via the `PATH` environment variable, under its "long" name. That is, if the egg is built for Python 2.3, there must be a `python2.3` executable present in a directory on `PATH`.

This feature is primarily intended to support `ez_setup` the installation of `setuptools` itself on non-Windows platforms, but may also be useful for other projects as well.

**IMPORTANT NOTE:** Eggs with an "eggsecutable" header cannot be renamed, or invoked via symlinks. They *must* be invoked using their original filename, in order to ensure that, once running, `pkg_resources` will know what project and version is in use. The header script will check this and exit with an error if the `.egg` file has been renamed or is invoked via a symlink that changes its base name.

## Declaring Dependencies

=====

`setuptools` supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that package management tools like EasyInstall can use the information).

`setuptools` and `pkg_resources` use a common syntax for specifying a project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version specifiers. A version specifier is one of the operators `<`, `>`, `<=`, `>=`, `==` or `!=`, followed by a version identifier. Tokens may be separated by whitespace, but any whitespace or nonstandard characters within a project name or version identifier must be replaced with `-`.

Version specifiers for a given project are internally sorted into ascending version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. `>1, >2` becomes `>1`, and `<2, <3` becomes `<3`). `!=` versions are excised from the ranges they fall within. A project's version is then checked for

membership in the resulting ranges. (Note that providing conflicting conditions for the same version (e.g. "<2,>=2" or "==2,!2") is meaningless and may therefore produce bizarre results.)

Here are some example requirement specifiers::

```
docutils >= 0.3
```

```
comment lines and \ continuations are allowed in requirement strings
```

```
BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, \
 ==1.6, ==1.7 # and so are line-end comments
```

```
PEAK[FastCGI, reST]>=0.5a4
```

```
setuptools==0.5a7
```

The simplest way to include requirement specifiers is to use the `install_requires` argument to `setup()`. It takes a string or list of strings containing requirement specifiers. If you include more than one requirement in a string, each requirement must begin on a new line.

This has three effects:

1. When your project is installed, either by using EasyInstall, `setup.py install`, or `setup.py develop`, all of the dependencies not already installed will be located (via PyPI), downloaded, built (if necessary), and installed.
2. Any scripts in your project will be installed with wrappers that verify the availability of the specified dependencies at runtime, and ensure that the correct versions are added to `sys.path` (e.g. if multiple versions have been installed).
3. Python Egg distributions will include a metadata file listing the dependencies.

Note, by the way, that if you declare your dependencies in `setup.py`, you do *not* need to use the `require()` function in your scripts or modules, as long as you either install the project or use `setup.py develop` to do development work on it. (See "Development Mode" below for more details on using `setup.py develop`.)

Dependencies that aren't in PyPI

-----

If your project depends on packages that aren't registered in PyPI, you may

still be able to depend on them, as long as they are available for download as:

- an egg, in the standard distutils ``sdist`` format,
- a single ``.py`` file, or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the ``dependency\_links`` argument to ``setup()``.

The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or
3. the repository's URL

In general, it's better to link to web pages, because it is usually less complex to update a web page than to release a new version of your project. You can also use a SourceForge ``showfiles.php`` link in the case where a package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single ``.py`` file, you must include an ``"#egg=project-version"`` suffix to the URL, to give a project name and version number. (Be sure to escape any dashes in the name or version by replacing them with underscores.) EasyInstall will recognize this suffix and automatically create a trivial ``setup.py`` to wrap the single ``.py`` file as an egg.

In the case of a VCS checkout, you should also append ``#egg=project-version`` in order to identify for what package that checkout should be used. You can append ``@REV`` to the URL's path (before the fragment) to specify a revision. Additionally, you can also force the VCS being used by prepending the URL with a certain prefix. Currently available are:

- ``svn+URL`` for Subversion,
- ``git+URL`` for Git, and
- ``hg+URL`` for Mercurial

A more complete example would be:

```
``vcs+proto://host/path@revision#egg=project-version``
```

Be careful with the version. It should match the one inside the project files. If you want to disregard the version, you have to omit it both in the ``requires`` and in the URL's fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a temporary folder and run `setup.py bdist_egg`.

The `dependency_links` option takes the form of a list of URL strings. For example, the below will cause EasyInstall to search the specified page for eggs or source distributions, if the package's dependencies aren't already installed::

```
setup(
 ...

 dependency_links = [
 "http://peak.telecommunity.com/snapshots/"
],
)
```

.. `_Declaring Extras`:

Declaring "Extras" (optional features with their own dependencies)

-----

Sometimes a project has "recommended" dependencies, that are not required for all uses of the project. For example, a project might offer optional PDF output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and `setuptools` allows you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their `install_requires`.

For example, let's say that Project A offers optional PDF and reST support::

```
setup(
 name="Project-A",
 ...
 extras_require = {
 'PDF': ["ReportLab>=1.2", "RXP"],

 'reST': ["docutils>=0.3"],
 }
)
```

As you can see, the `extras_require` argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project



name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry points`\_ to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run::

```
setup(
 name="Project-A",
 ...
 entry_points = {
 'console_scripts': [
 'rst2pdf = project_a.tools.pdfgen [PDF]',
 'rst2html = project_a.tools.htmlgen',

 # more script entry points ...
],
 }
)
```

Projects can also use another project's extras when specifying dependencies. For example, if project B needs "project A" with PDF support installed, it might declare the dependency like this::

```
setup(
 name="Project-B",
 install_requires = ["Project-A[PDF]"],
 ...
)
```

This will cause ReportLab to be installed along with project A, if project B is installed -- even if project A was already installed. In this way, a project can encapsulate groups of optional "downstream dependencies" under a feature name, so that packages that depend on it don't have to know what the downstream dependencies are. If a later version of Project A builds in PDF support and no longer needs ReportLab, or if it ends up needing other dependencies besides ReportLab in order to provide PDF support, Project B's setup information does not need to change, but the right packages will still be installed if needed.

Note,

by the way, that if a project ends up not needing any other packages to support a feature, it should keep an empty requirements list for that feature in its ``extras\_require`` argument, so that packages depending on that feature don't break (due to an invalid feature name). For example, if Project A above builds in PDF support and no longer needs ReportLab, it could change its setup to this::

```

setup(
 name="Project-A",
 ...
 extras_require = {
 'PDF': [],
 'reST': ["docutils>=0.3"],
 }
)

```

so that Package B doesn't have to remove the ``[PDF]`` from its requirement specifier.

## Including Data Files

=====

The distutils have traditionally allowed installation of "data files", which are placed in a platform-specific location. However, the most common use case for data files distributed with a package is for use *\*by\** the package, usually by including the data files in the package directory.

Setuptools offers three

ways to specify data files to be included in your packages. First, you can simply use the ``include\_package\_data`` keyword, e.g.::

```

from setuptools import setup, find_packages
setup(
 ...
 include_package_data = True
)

```

This tells setuptools to install any data files it finds in your packages.

The data files must be under CVS or Subversion control, or else they must be specified via the distutils' ``MANIFEST.in`` file. (They can also be tracked by another revision control system, using an appropriate plugin. See the section below on `Adding Support for Other Revision Control Systems`\_ for information on how to write such plugins.)

If the data files are not under version control, or are not in a supported version control system, or if you want finer-grained control over what files are included (for example, if you have documentation files in your package directories and want to exclude them from installation), then you can also use the ``package\_data`` keyword, e.g.::

```

from setuptools import setup, find_packages
setup(

```

```

...
package_data = {
 # If any package contains *.txt or *.rst files, include them:
 ': ['*.txt', '*.rst'],
 # And include any *.msg files found in the 'hello' package, too:
 'hello': ['*.msg'],
}
)

```

The ``package\_data`` argument is a dictionary that maps from package names to lists of glob patterns. The globs may include subdirectory names, if the data files are contained in a subdirectory of the package. For example, if the package tree looks like this::

```

setup.py
src/
 mypkg/
 __init__.py
 mypkg.txt
 data/
 somefile.dat
 otherdata.dat

```

The setuptools setup file might look like this::

```

from setuptools import setup, find_packages
setup(
 ...
 packages = find_packages('src'), # include all packages under src
 package_dir = {'': 'src'},
 # tell distutils packages are under src

 package_data = {
 # If any package contains *.txt files, include them:
 ': ['*.txt'],
 # And include any *.dat files found in the 'data' subdirectory
 # of the 'mypkg' package, also:
 'mypkg': ['data/*.dat'],
 }
)

```

Notice that if you list patterns in ``package\_data`` under the empty string, these patterns are used to find files in every package, even ones that also have their own patterns listed. Thus, in the above example, the ``mypkg.txt`` file gets included even though it's not listed in the patterns for ``mypkg``.

Also notice that if you use paths, you *must* use a forward slash (``/``) as the path separator, even if you are on Windows. Setuptools automatically

converts slashes to appropriate platform-specific separators at build time.

(Note: although the `package_data` argument was previously only available in `setuptools`, it was also added to the Python `distutils`

package as of

Python 2.4; there is some documentation for the feature `__` available on the python.org website. If using the setuptools-specific `include_package_data` argument, files specified by `package_data` will *not* be automatically added to the manifest unless they are tracked by a supported version control system, or are listed in the MANIFEST.in file.)

`__` <http://docs.python.org/dist/node11.html>

Sometimes, the `include_package_data` or `package_data` options alone aren't sufficient to precisely define what files you want included. For example, you may want to include package README files in your revision control system and source distributions, but exclude them from being installed. So, setuptools offers an `exclude_package_data` option as well, that allows you to do things like this::

```
from setuptools import setup, find_packages
setup(
 ...
 packages = find_packages('src'), # include all packages under src
 package_dir
= {'': 'src'}, # tell distutils packages are under src

 include_package_data = True, # include everything in source control

 # ...but exclude README.txt from all packages
 exclude_package_data = { '': ['README.txt'] },
)
```

The `exclude_package_data` option is a dictionary mapping package names to lists of wildcard patterns, just like the `package_data` option. And, just as with that option, a key of `''` will apply the given pattern(s) to all packages. However, any files that match these patterns will be *excluded* from installation, even if they were listed in `package_data` or were included as a result of using `include_package_data`.

In summary, the three options allow you to:

`include_package_data`

Accept all data files and directories matched by `MANIFEST.in` or found in source control.

`package_data`

Specify additional patterns to match files and directories that may or may

not be matched by ``MANIFEST.in`` or found in source control.

`exclude_package_data`

Specify patterns for data files and directories that should *not* be included when a package is installed, even if they would otherwise have been included due to the use of the preceding options.

NOTE: Due to the way the distutils build process works, a data file that you include in your project and then stop including may be "orphaned" in your project's build directories, requiring you to run `setup.py clean --all` to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run `setup.py clean --all`.

### Accessing Data Files at Runtime

-----

Typically, existing programs manipulate a package's `__file__` attribute in order to find the location of data files. However, this manipulation isn't compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files, you should use the `Resource Management API` of `pkg_resources` to access them. The `pkg_resources` module is distributed as part of `setuptools`, so if you're using `setuptools` to distribute your package, there is no reason not to use its resource management API. See also `Accessing Package Resources` for a quick example of converting code that uses `__file__` to use `pkg_resources` instead.

.. `Resource Management API`: <http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management>  
.. `Accessing Package Resources`: <http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources>

### Non-Package Data Files

-----

The `distutils` normally install general "data files" to a platform-specific location (e.g. `/usr/share`). This feature intended to be used for things like documentation, example configuration files, and the like. `setuptools` does not install these data files in a separate location, however. They are bundled inside the egg file or directory, alongside the Python modules and packages. The data files can also be accessed using the `Resource Management API`, by specifying a `Requirement` instead of a package name::

```
from pkg_resources import Requirement, resource_filename
filename = resource_filename(Requirement.parse("MyProject"), "sample.conf")
```

The above code will obtain the filename of the "sample.conf" file in the data root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't actually install data files to some arbitrary location on a user's machine; this is a feature, not a bug. You can always include a script in your distribution that extracts and copies your the documentation or data files to a user-specified location, at their discretion. If you put related data files in a single directory,

you can use `resource_filename()` with the directory name to get a filesystem directory that then can be copied with the `shutil` module. (Even if your package is installed as a zipfile, calling `resource_filename()` on a directory will return an actual filesystem directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your data files or directories inside one of your packages, rather than using the distutils' approach. However, if you're updating an existing application, it may be simpler not to change the way it currently specifies these data files.)

#### Automatic Resource Extraction

-----

If you are using tools that expect your resources to be "real" files, or your project includes non-extension native libraries or other files that your C extensions expect to be able to access, you may need to list those files in the `eager_resources` argument to `setup()`, so that the files will be extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared libraries *other* than distutils-built C extensions, and those shared libraries use file extensions other than `.dll`, `.so`, or `.dylib`, which are the extensions that `setuptools` 0.6a8 and higher automatically detects as shared libraries and adds to the `native_libs.txt` file for you. Any shared libraries whose names do not end with one of those extensions should be listed as `eager_resources`, because they need to be present in the filesystem when the C extensions that link to them are used.

The `pkg_resources` runtime for compressed packages will automatically extract *all* C extensions and `eager_resources` at the same time, whenever *any* C extension or eager resource is requested via the `resource_filename()` API. (C extensions are imported using `resource_filename()` internally.)

This ensures that C extensions will see all of the "real" files that they expect to see.

Note also that you can list directory resource names in ```eager_resources``` as well, in which case the directory's contents (including subdirectories) will be extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you don't! It's really intended to support projects with lots of non-Python dependencies and as a last resort for crafty projects that can't otherwise handle being compressed. If your package is pure Python, Python plus data files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of ```eager_resources``` being relevant to your project.

## Extensible Applications and Frameworks

=====

.. \_Entry Points:

### Dynamic Discovery of Services and Plugins

-----

```setuptools```

supports creating libraries that "plug in" to extensible applications and frameworks, by letting you register "entry points" in your project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins that provide translation for various file types to the blog's output format. The framework might define an "entry point group" called ```blogtool.parsers```, and then allow plugins to register entry points for the file extensions they support.

This would allow people to create distributions that contain one or more parsers for different file types, and then the blogging tool would be able to find the parsers at runtime by looking up an entry point for the file extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it can register these as entry points in its own setup script, which means it doesn't have to special-case its built-in formats. They can just be treated the same as any other plugin's entry points would be.

If you're creating a project that plugs in to an existing application or framework, you'll need to know what entry points or entry point groups are defined by that application or framework. Then, you can register entry points in your setup script. Here are a few examples of ways you might register an `.rst` file parser entry point in the `blogtool.parsers` entry point group, for our hypothetical blogging tool::

```
setup(
    # ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)
```

```
setup(
    # ...
    entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
)
```

```
setup(
    # ...
    entry_points = """
    [blogtool.parsers]
    .rst = some.nested.module:SomeClass.some_classmethod [reST]
    """
    extras_require = dict(reST = "Docutils>=0.3.5")
)
```

The `entry_points` argument to `setup()` accepts either a string with `.ini`-style sections, or a dictionary mapping entry point group names to either strings or lists of strings containing entry point specifiers. An entry point specifier consists of a name and value, separated by an `=` sign. The value consists of a dotted module name, optionally followed by a `:` and a dotted identifier naming an object within the module. It can also include a bracketed list of "extras" that are required for the entry point to be used. When the invoking application or framework requests loading of an entry point, any requirements implied by the associated extras will be passed to `pkg_resources.require()`, so that an appropriate error message can be displayed if the needed package(s) are missing. (Of course, the invoking app or framework can ignore such errors if it wants to make an entry point optional if a requirement isn't installed.)

Defining Additional Metadata

Some extensible applications and frameworks may need to define their own kinds of metadata to include in eggs, which they can then access using the

`pkg_resources` metadata APIs. Ordinarily, this is done by having plugin developers include additional files in their `ProjectName.egg-info` directory. However, since it can be tedious to create such files by hand, you may want to create a distutils extension that will create the necessary files from arguments to `setup()`, in much the same way that `setuptools` does for many of the `setup()` arguments it adds. See the section below on `Creating distutils Extensions` for more details, especially the subsection on `Adding new EGG-INFO Files`.

"Development Mode"

=====

Under normal circumstances, the `distutils` assume that you are going to build a distribution of your project, not use it in its "raw" or "unbuilt" form. If you were to use the `distutils` that way, you would have to rebuild and reinstall your project every time you made a change to it during development.

Another problem that sometimes comes up with the `distutils` is that you may need to do development on two related projects at the same time. You may need to put both projects' packages in the same directory to run them, but need to keep them separate for revision control purposes. How can you do this?

Setuptools allows you to deploy your projects for use in a common directory or staging area, but without copying any files. Thus, you can edit each project's code in its checkout directory, and only need to run build commands when you change a project's C extensions or similarly compiled files. You can even deploy a project into another project's checkout directory, if that's your preferred way of working (as opposed to using a common independent staging area or the site-packages directory).

To do this, use the `setup.py develop` command. It works very similarly to `setup.py install` or the EasyInstall tool, except that it doesn't actually install anything. Instead, it creates a special `.egg-link` file in the deployment directory, that links to your project's source code. And, if your deployment directory is Python's `site-packages` directory, it will also update the `easy-install.pth` file to include your project's source code, thereby making it available on `sys.path` for all programs using that Python installation.

If you have enabled the `use_2to3` flag, then of course the `.egg-link` will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the `setup.py develop` will build Python 3 code under the `build` directory, and link there. This means that after doing code changes you will

have to run `setup.py build` before these changes are picked up by your Python 3 installation.

In addition, the `develop` command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your `install_requires` packages are available on `sys.path`.

You can deploy the same project to multiple staging areas, e.g. if you have multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using `setup.py develop --uninstall`, specifying the desired staging area if it's not the default.

There are several options to control the precise behavior of the `develop` command; see the section on the `develop`_`` command below for more details.

Note that you can also apply `setuptools` commands to non-`setuptools` projects, using commands like this::

```
python -c "import setuptools; execfile('setup.py')" develop
```

That is, you can simply list the normal setup commands and options following the quoted part.

Distributing a `setuptools`-based project

=====

Using

`setuptools`... Without bundling it!

Your users might not have `setuptools` installed on their machines, or even if they do, it might not be the right version. Fixing this is easy; just download `ez_setup.py`_``, and put it in the same directory as your `setup.py`_`` script. (Be sure to add it to your revision control system, too.) Then add these two lines to the very top of your setup script, before the script imports anything from `setuptools`:

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

```
import ez_setup
ez_setup.use_setuptools()
```

That's it. The `ez_setup` module will automatically download a matching

version of `setuptools` from PyPI, if it isn't present on the target system. Whenever you install an updated version of `setuptools`, you should also update your projects' `ez_setup.py` files, so that a matching version gets installed on the target machine(s).

By the way, `setuptools` supports the new PyPI "upload" command, so you can use `setup.py sdist upload` or `setup.py bdist_egg upload` to upload your source or egg distributions respectively. Your project's current version must be registered with PyPI first, of course; you can use `setup.py register` to do that. Or you can do it all in one step, e.g. `setup.py register sdist bdist_egg upload` will register the package, build source and egg distributions, and then upload them both to PyPI, where they'll be easily found by other projects that depend on them.

(By the way, if you need to distribute a specific version of `setuptools`, you can specify the exact version and base download URL as parameters to the `use_setuptools()` function. See the function's docstring for details.)

What Your Users Should Know

In general, a `setuptools`-based project looks just like any `distutils`-based project -- as long as your users have an internet connection and are installing to `site-packages`, that is. But for some users, these conditions don't apply, and they may become frustrated if this is their first encounter with a `setuptools`-based project. To keep these users happy, you should review the following topics in your project's installation instructions, if they are relevant to your project and your target audience isn't already familiar with `setuptools` and `easy_install`.

Network Access

If your project is using `ez_setup`, you should inform users of the need to either have network access, or to preinstall the correct version of `setuptools` using the `EasyInstall installation instructions`. Those instructions also have tips for dealing with firewalls as well as how to manually download and install `setuptools`.

Custom Installation Locations

You should inform your users that if they are installing your project to somewhere other than the main `site-packages` directory, they should first install `setuptools` using the instructions for `Custom Installation Locations`, before installing your project.

Your Project's Dependencies

If your project depends on other projects that may need to be downloaded from PyPI or elsewhere, you should list them in your installation instructions, or tell users how to find out what they are. While most users will not need this information, any users who don't have unrestricted internet access may have to find, download, and install the other projects manually. (Note, however, that they must still install those projects using `easy_install`, or your project will not know they are installed, and your setup script will try to download them again.)

If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited network access can manually download all the eggs to a single directory, then use the `-f` option of `easy_install` to specify the directory to find eggs in. Users who have full network access can just use `-f` with the URL of your download page, and `easy_install` will find all the needed eggs using your links directly. This is also useful when your target audience isn't able to compile packages (e.g. most Windows users) and your package or some of its dependencies include C code.

Subversion or CVS Users and Co-Developers

Users and co-developers who are tracking your in-development code using CVS, Subversion, or some other revision control system should probably read this manual's sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use `setup.py develop` when tracking your in-development code, you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to run `setup.py clean --all` and delete any obsolete `.pyc` or `.pyo`. (This tip applies to the distutils in general, not just `setuptools`, but not everybody knows about them; be kind to your users by spelling out your project's best practices rather than leaving them guessing.)

Creating System Packages

Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn't `easy_install`! `Setuptools` currently supports `bdist_rpm`, `bdist_wininst`, and `bdist_dumb` formats for system packaging. If a user has a locally-installed "bdist" packaging tool that internally uses the distutils `install` command, it should be able to work with `setuptools`. Some examples of "bdist" formats that this

should work with include the
`bdist_nsi` and `bdist_msi` formats for Windows.

However, packaging tools that build binary distributions by running
`setup.py install` on the command line or as a subprocess will require
modification to work with `setuptools`. They should use the
`--single-version-externally-managed` option to the `install` command,
combined with the standard `--root` or `--record` options.
See the `install command` documentation below for more details. The
`bdist_deb` command is an example of a command that currently requires
this kind of patching to work with `setuptools`.

If you or your users have a problem building a usable system package for
your project, please report the problem via the mailing list so that
either the "bdist" tool in question or `setuptools` can be modified to
resolve the issue.

Setting the `zip_safe` flag

For maximum performance, Python packages are
best installed as zip files.
Not all packages, however, are capable of running in compressed form, because
they may expect to be able to access either source code or data files as
normal operating system files. So, `setuptools` can install your project
as a zipfile or a directory, and its default choice is determined by the
project's `zip_safe` flag.

You can pass a True or False value for the `zip_safe` argument to the
`setup()` function, or you can omit it. If you omit it, the `bdist_egg`
command will analyze your project's contents to see if it can detect any
conditions that would prevent it from working in a zipfile. It will output
notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the
project unsafe if it contains any C extensions or datafiles whatsoever. This
does *not* mean that the project can't or won't work as a zipfile! It just
means that the `bdist_egg` authors aren't yet comfortable
asserting that
the project *will* work. If the project contains no C or data files, and does
no `__file__` or `__path__` introspection or source code manipulation, then
there is an extremely solid chance the project will work when installed as a
zipfile. (And if the project uses `pkg_resources` for all its data file
access, then C extensions and other data files shouldn't be a problem at all.
See the `Accessing Data Files at Runtime` section above for more information.)

However, if `bdist_egg` can't be *sure* that your package will work, but

you've checked over all the warnings it issued, and you are either satisfied it *will* work (or if you want to try it for yourself), then you should set `zip_safe` to `True` in your `setup()` call. If it turns out that it doesn't work, you can always change it to `False`, which will force `setuptools` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using `EasyInstall` to install your package. And, if you want to override for testing purposes, you can just run `setup.py easy_install --zip-ok .` or `setup.py easy_install --always-unzip .` in your project directory. to install the package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become more satisfied with the robustness of the `pkg_resources` runtime, the "zip safety" analysis may become less conservative. However, we strongly recommend that you determine for yourself whether your project functions correctly when installed as a zipfile, correct any problems if you can, and then make an explicit declaration of `True` or `False` for the `zip_safe` flag, so that it will not be necessary for `bdist_egg` or `EasyInstall` to try to guess whether your project can work as a zipfile.

Namespace Packages

Sometimes, a large package is more useful if distributed as a collection of smaller eggs. However, Python does not normally allow the contents of a package to be retrieved from more than one location. "Namespace packages" are a solution for this problem. When you declare a package to be a namespace package, it means that the package has no meaningful contents in its `__init__.py`, and that it is merely a container for modules and subpackages.

The `pkg_resources` runtime will then automatically ensure that the contents of namespace packages that are spread over multiple eggs or directories are combined into a single "virtual" package.

The `namespace_packages` argument to `setup()` lets you declare your project's namespace packages, so that they will be included in your project's metadata. The argument should list the namespace packages that the egg participates in. For example, the `ZopeInterface` project might do this::

```
setup(  
    # ...  
    namespace_packages = ['zope']  
)
```

because it contains a `zope.interface` package that lives in the `zope` namespace package. Similarly, a project for a standalone `zope.publisher` would also declare the `zope` namespace package. When these projects are installed and used, Python will see them both as part of a "virtual" `zope` package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's `zope.app` package is a namespace package, and in the future PEAK's `peak.util` package will be too.

Note, by the way, that your project's source tree must include the namespace packages' `__init__.py` files (and the `__init__.py` of any parent packages), in a normal Python package layout. These `__init__.py` files *must* contain the line::

```
__import__('pkg_resources').declare_namespace(__name__)
```

This code ensures that the namespace package machinery is operating and that the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's `__init__.py`. Even though it may appear to work during development, or when projects are installed as `.egg` files, it will not work when the projects are installed using "system" packaging tools -- in such cases the `__init__.py` files will not be installed, let alone executed.

You must include the `declare_namespace()` line in the `__init__.py` of *every* project that has contents for the namespace package in question, in order to ensure that the namespace will be declared regardless of which project's copy of `__init__.py` is loaded first. If the first loaded `__init__.py` doesn't declare it, it will never *be* declared, because no other copies will ever be loaded!

TRANSITIONAL NOTE

~~~~~

Setuptools automatically calls `declare_namespace()` for you at runtime, but future versions may *not*. This is because the automatic declaration feature has some negative side effects, such as needing to import all namespace packages

during the initialization of the `pkg_resources` runtime, and also the need for `pkg_resources` to be explicitly imported before any namespace packages work at all. In some future releases, you'll be responsible for including your own declaration lines, and the automatic declaration feature will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, `setuptools` will warn you about missing `declare_namespace()` calls in your `__init__.py` files, and you should correct these as soon as possible before the compatibility support is removed.

Namespace packages without declaration lines will not work correctly once a user has upgraded to a later version, so it's important that you make this change now in order to avoid having your code break in the field. Our apologies for the inconvenience, and thank you for your patience.

## Tagging and "Daily Build" or "Snapshot" Releases

-----

### When

a set of related projects are under development, it may be important to track finer-grained version increments than you would normally use for e.g. "stable" releases. While stable releases might be measured in dotted numbers with alpha/beta/etc. status codes, development versions of a project often need to be tracked by revision or build number or even build date. This is especially true when projects in development need to refer to one another, and therefore may literally need an up-to-the-minute version of something!

To support these scenarios, `setuptools` allows you to "tag" your source and egg distributions by adding one or more of the following to the project's "official" version identifier:

- \* A manually-specified pre-release tag, such as "build" or "dev", or a manually-specified post-release tag, such as a build or revision number (`--tag-build=STRING, -bSTRING`)
- \* A "last-modified revision number" string generated automatically from Subversion's metadata (assuming your project is being built from a Subversion "working copy") (`--tag-svn-revision, -r`)
- \* An 8-character representation of the build date (`--tag-date, -d`), as a postrelease tag

You can add these tags by adding `egg_info` and the desired options to the command line ahead of the `sdist` or `bdist` commands that you want to generate a daily build or snapshot for. See the section below on the `egg_info` command for more details.

(Also, before you release your project, be sure to see the section above on "Specifying Your Project's Version" for more information about how pre- and post-release tags affect how `setuptools` and EasyInstall interpret version



numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a downloadable location or are copying them to a distribution server, you should probably

also check out the ``rotate`_` command, which lets you automatically delete all but the N most-recently-modified distributions matching a glob pattern. So, you can use a command line like::

```
setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3
```

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the most recent Subversion revision that affected the source tree), and then delete any egg files from the distribution directory except for the three that were built most recently.

If you have to manage automated builds for multiple packages, each with different tagging and rotation policies, you may also want to check out the ``alias`_` command, which would let each package define an alias like ``daily`` that would perform the necessary tag, build, and rotate commands. Then, a simpler script or cron job could just run ``setup.py daily`` in each project directory. (And, you could also define sitewide or per-user default versions of the ``daily`` alias, so that

projects that didn't define their own would use the appropriate defaults.)

## Generating Source Distributions

-----

``setuptools`` enhances the `distutils`` default algorithm for source file selection, so that all files managed by CVS or Subversion in your project tree are included in any source distribution you build. This is a big improvement over having to manually write a ``MANIFEST.in`` file and try to keep it in sync with your project. So, if you are using CVS or Subversion, and your source distributions only need to include files that you're tracking in revision control, don't create a ``MANIFEST.in`` file for your project. (And, if you already have one, you might consider deleting it the next time you would otherwise have to change it.)

(NOTE: other revision control systems besides CVS and Subversion can be supported using plugins; see the section below on ``Adding Support for Other Revision Control Systems`_` for information on how to write such plugins.)

If you need to include automatically generated files, or files that are kept in an unsupported revision control system, you'll need to create a ``MANIFEST.in``

file to specify any files that the default file location algorithm doesn't catch. See the distutils documentation for more information on the format of the ``MANIFEST.in`` file.

But, be sure to ignore any part of the distutils documentation that deals with ``MANIFEST`` or how it's generated from ``MANIFEST.in``; setuptools shields you from these issues and doesn't work the same way in any case. Unlike the distutils, setuptools regenerates the source distribution manifest file every time you build a source distribution, and it builds it inside the project's ``.egg-info`` directory, out of the way of your main project directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools' approach to determining the contents of a source distribution is so much simpler, its ``sdist`` command omits nearly all of the options that the distutils' more complex ``sdist`` process requires. For all practical purposes, you'll probably use only the ``--formats`` option, if you use any option at all.

(By the way, if you're using some other revision control system, you might consider creating and publishing a `revision control plugin for setuptools`\_.)

.. \_revision control plugin for setuptools: `Adding Support for Other Revision Control Systems`\_

## Making your package available for EasyInstall

-----

If you use the ``register`` command (`setup.py register`) to register your package with PyPI, that's most of the battle right there. (See the `docs for the register command`\_ for more details.)

.. \_docs for the register command: <http://docs.python.org/dist/package-index.html>

If you also use the `upload`_`` command to upload actual distributions of your package, that's even better, because EasyInstall will be able to find and download them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to PyPI, and just want your existing distributions (or perhaps a Subversion checkout) to be used instead.

So here's what you need to do before running the ``register`` command. There are three `setup()` arguments that affect EasyInstall:

`url``` and `download_url```

These become links on your project's PyPI page. EasyInstall will examine them to see if they link to a package ("primary links"), or whether they are HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the page for primary links

```long_description```

EasyInstall will check any URLs contained in this argument to see if they are primary links.

A URL is considered a "primary link" if it is a link to a .tar.gz, .tgz, .zip, .egg, .egg.zip, .tar.bz2, or .exe file, or if it has an ```#egg=project``` or ```#egg=project-version``` fragment identifier attached to it. EasyInstall attempts

to determine a project name and optional version number from the text of a primary link *without* downloading it. When it has found all the primary links, EasyInstall will select the best match based on requested version, platform compatibility, and other criteria.

So, if your ```url``` or ```download_url``` point either directly to a downloadable source distribution, or to HTML page(s) that have direct links to such, then EasyInstall will be able to locate downloads automatically. If you want to make Subversion checkouts available, then you should create links with either ```#egg=project``` or ```#egg=project-version``` added to the URL. You should replace ```project``` and ```version``` with the values they would have in an egg filename. (Be sure to actually generate an egg and then use the initial part of the filename, rather than trying to guess what the escaped form of the project name and version number will be.)

Note that Subversion checkout links are of lower precedence than other kinds

of distributions, so EasyInstall will not select a Subversion checkout for downloading unless it has a version included in the ```#egg=``` suffix, and it's a higher version than EasyInstall has seen in any other links for your project.

As a result, it's a common practice to use mark checkout URLs with a version of "dev" (i.e., ```#egg=projectname-dev```), so that users can do something like this::

```
easy_install --editable projectname==dev
```

in order to check out the in-development version of ```projectname```.

### Managing "Continuous Releases" Using Subversion

-----

If you expect your users to track in-development versions of your project via

Subversion, there are a few additional steps you should take to ensure that things work smoothly with EasyInstall. First, you should add the following to your project's ``setup.cfg`` file:

```
.. code-block:: ini

[egg_info]
tag_build = .dev
tag_svn_revision = 1
```

This will tell ``setuptools`` to generate package version numbers like ``1.0a1.dev-r1263``, which will be considered to be an *older* release than ``1.0a1``. Thus, when you actually release ``1.0a1``, the entire egg infrastructure (including ``setuptools``, ``pkg\_resources`` and EasyInstall) will know that ``1.0a1`` supersedes any interim snapshots from Subversion, and handle upgrades accordingly.

(Note: the project version number you specify in ``setup.py`` should always be the *next* version of your software, not the last released version. Alternately, you can leave out the ``tag\_build=.dev``, and always use the *last* release as a version number, so that your post-1.0 builds are labelled ``1.0-r1263``, indicating a post-1.0 patchlevel. Most projects so far, however, seem to prefer to think of their project as being a future version still under development, rather than a past version being patched. It is of course possible for a single project to have both situations, using post-release numbering on release branches, and pre-release numbering on the trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to their checkout URL (as described in the previous section) with an ``#egg=projectname-dev`` suffix. This allows users to request EasyInstall to download ``projectname==dev`` in order to get the latest in-development code. Note that if your project depends on such in-progress code, you may wish to specify your ``install\_requires`` (or other requirements) to include ``==dev``, e.g.:

```
.. code-block:: python

install_requires = ["OtherProject>=0.2a1.dev-r143,==dev"]
```

The above example says, "I really want at least this particular development revision number, but feel free to follow and use an ``#egg=OtherProject-dev`` link if you find one". This avoids the need to have actual source or binary distribution snapshots of in-development code available, just to be able to depend on

the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags as described in this section, it's a good idea to run ```setup.py develop``` after each Subversion checkin or update, because your project's version number will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the ```develop``` command will take care of fetching the updated dependencies, building changed extensions, etc. Be sure to also remind any of your users who check out your project from Subversion that they need to run ```setup.py develop``` after every update in order to keep their checkout completely in sync.

### Making "Official" (Non-Snapshot) Releases

~~~~~

When you make an official release, creating source or binary distributions, you will need to override the tag settings from ```setup.cfg```, so that you don't end up registering versions like ```foobar-0.7a1.dev-r34832```.

This is easy to do if you are developing on the trunk and using tags or branches for your releases - just make the change to ```setup.cfg``` after branching or tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the default version options on the command line, using something like::

```
python setup.py egg_info -RDb "" sdist bdist_egg register upload
```

The first part of this command (```egg_info -RDb ""```) will override the configured tag information, before creating source and binary eggs, registering the project with PyPI, and uploading the files. Thus, these commands will use the plain version from your ```setup.py```, without adding the Subversion revision number or build designation string.

Of course, if you will be doing this a lot, you may wish to create a personal alias for this operation, e.g.::

```
python setup.py alias -u release egg_info -RDb ""
```

You can then use it like this::

```
python setup.py release sdist bdist_egg register upload
```

Or of course you can create more elaborate aliases that do all of the above. See the sections below on the ```egg_info``` and ```alias``` commands for more ideas.

Distributing Extensions compiled with Pyrex

`setuptools` includes transparent support for building Pyrex extensions, as long as you define your extensions using `setuptools.Extension`, *not* `distutils.Extension`. You must also not import anything from Pyrex in your setup script.

If you follow these rules, you can safely list `.pyx` files as the source of your `Extension` objects in the setup script. `setuptools` will detect at build time whether Pyrex is installed or not. If it is, then `setuptools` will use it. If not, then `setuptools` will silently change the `Extension` objects to refer to the `.c` counterparts of the `.pyx` files, so that the normal `distutils` C compilation process will occur.

Of course, for this to work, your source distributions must include the C code generated by Pyrex, as well as your original `.pyx` files. This means that you will probably want to include current `.c` files in your revision control system, rebuilding them whenever you check changes in for the `.pyx` source files. This will ensure that people tracking your project in CVS or Subversion will be able to build it even if they don't have Pyrex installed, and that your source releases will be similarly usable with or without Pyrex.

Command Reference

.. `_alias`:

`alias` - Define shortcuts for commonly used commands

=====

Sometimes, you need to use the same commands over and over, but you can't necessarily set them as defaults. For example, if you produce both development snapshot releases and "stable" releases of a project, you may want to put the distributions in different places, or use different `egg_info` tagging options, etc. In these cases, it doesn't make sense to set the options in a `distutils` configuration file, because the values of the options changed based on what you're trying to do.

Setuptools therefore allows you to define "aliases" - shortcut names for an arbitrary string of commands and options, using `setup.py alias aliasname`

expansion`, where aliasname is the name of the new alias, and the remainder of the command line supplies its expansion. For example, this command defines a sitewide alias called "daily", that sets various `egg_info` tagging options::

```
setup.py alias --global-config daily egg_info --tag-svn-revision \  
--tag-build=development
```

Once the alias is defined, it can then be used with other setup commands, e.g.::

```
setup.py daily bdist_egg # generate a daily-build .egg file  
setup.py daily sdist # generate a daily-build source distro  
setup.py daily sdist bdist_egg # generate  
both
```

The above commands are interpreted as if the word `daily` were replaced with `egg_info --tag-svn-revision --tag-build=development`.

Note that `setuptools` will expand each alias *at most once* in a given command line. This serves two purposes. First, if you accidentally create an alias loop, it will have no effect; you'll instead get an error message about an unknown command. Second, it allows you to define an alias for a command, that uses that command. For example, this (project-local) alias::

```
setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg
```

redefines the `bdist_egg` command so that it always runs the `rotate` command afterwards to delete all but the newest egg file. It doesn't loop indefinitely on `bdist_egg` because the alias is only expanded once when used.

You can remove a defined alias with the `--remove` (or `-r`) option, e.g.::

```
setup.py alias --global-config --remove daily
```

would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The default is to define or remove a project-specific alias, but you can use any of the `configuration file options`_ (listed under the `saveopts`_ command, below) to determine which distutils configuration file an aliases will be added to (or removed from).

Note that if you omit the "expansion" argument to the `alias` command, you'll get output showing that alias' current definition (and what configuration file it's defined in). If you omit the alias name as well,

you'll get a listing of all current aliases along with their configuration file locations.

`bdist_egg` - Create a Python Egg for the project

=====

This command generates a Python Egg (`.egg` file) for the project. Python Eggs are the preferred binary distribution format for EasyInstall, because they are cross-platform (for "pure" packages), directly importable, and contain project metadata including scripts and information about the project's dependencies. They can be simply downloaded and added to `sys.path` directly, or they can be placed in a directory on `sys.path` and then automatically discovered by the egg runtime system.

This command runs the `egg_info` command (if it hasn't already run) to update the project's metadata (`egg-info`) directory. If you have added any extra metadata files to the `egg-info` directory, those files will be included in the new egg file's metadata directory, for use by the egg runtime system or by any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just use `bdist_egg` and you're done. But there are a few options that may be occasionally useful:

`--dist-dir=DIR, -d DIR`

Set the directory where the `.egg` file will be placed. If you don't supply this, then the `--dist-dir` setting of the `bdist` command will be used, which is usually a directory named `dist` in the project directory.

`--plat-name=PLATFORM, -p PLATFORM`

Set the platform name string that will be embedded in the egg's filename (assuming the egg contains C extensions). This can be used to override the distutils default platform name with something more meaningful. Keep in mind, however, that the egg runtime system expects to see eggs with distutils platform names, so it may ignore or reject eggs with non-standard platform names. Similarly, the EasyInstall program may ignore them when searching web pages for download links. However, if you are cross-compiling or doing some other unusual things, you might find a use for this option.

`--exclude-source-files`

Don't include any modules' `.py` files in the egg, just compiled Python, C, and data files. (Note that this doesn't affect any `.py` files in the EGG-INFO directory or its subdirectories, since for example there may be

scripts with a `.py` extension which must still be retained.) We don't recommend that you use this option except for packages that are being bundled for proprietary end-user applications, or for "embedded" scenarios where space is at an absolute premium. On the other hand, if your package is going to be installed and used in compressed form, you might as well exclude the source because Python's `traceback` module doesn't currently understand how to display zipped source code anyway, or how to deal with files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there because they were copied from similar `bdist` commands used as an example for creating this one. They may be useful for testing and debugging, however, which is why we kept them:

`--keep-temp, -k`

Keep the contents of the `--bdist-dir` tree around after creating the `.egg` file.

`--bdist-dir=DIR, -b DIR`

Set the temporary directory for creating the distribution. The entire contents of this directory are zipped to create the `.egg` file, after running various installation commands to copy the package's modules, data, and extensions here.

`--skip-build`

Skip doing any "build" commands; just go straight to the install-and-compress phases.

`.. _develop:`

`develop` - Deploy the project source in "Development Mode"

=====

This command allows you to deploy your project's source for use in one or more "staging areas" where it will be available for importing. This deployment is done in such a way that changes to the project source are immediately available in the staging area(s), without needing to run a build or install step after each change.

The `develop` command works by creating an `.egg-link` file (named for the project) in the given staging area. If the staging area is Python's `site-packages` directory, it also updates an `easy-install.pth` file so that the project is on `sys.path` by default for all programs run using that Python installation.

The `develop` command also installs wrapper scripts in the staging area (or a separate directory, as specified) that will ensure the project's dependencies are available on `sys.path` before running the project's source scripts. And, it ensures that any missing project dependencies are available in the staging area, by downloading and installing them if necessary.

Last, but not least, the `develop` command invokes the `build_ext -i` command to ensure any C extensions in the project have been built and are up-to-date, and the `egg_info` command to ensure the project's metadata is updated (so that the runtime and wrappers know what the project's dependencies are). If you make any changes to the project's setup script or C extensions, you should rerun the `develop` command against all relevant staging areas to keep

the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning `develop`, but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the `develop` or `test` commands to keep the distribution updated.

Here are some of the options that the `develop` command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use `--exclude-scripts` (for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the `develop` command, if you need finer control over the installation options for dependencies.

`--uninstall, -u`

Un-deploy the current project. You may use the `--install-dir` or `-d` option to designate the staging area. The created `.egg-link` file will be removed, if present and it is still pointing to the project directory. The project directory will be removed from `easy-install.pth` if the staging area is Python's `site-packages` directory.

Note that this option currently does *not* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to activate a different version of the package. You can also avoid installing script wrappers in the first place, if you use the `--exclude-scripts` (aka `-x`) option when you run `develop` to deploy the project.

`--multi-version, -m`

"Multi-version" mode. Specifying this option prevents `develop` from adding an `easy-install.pth` entry for the project(s) being deployed, and if an entry for any version of a project already exists, the entry will be removed upon successful deployment. In multi-version mode, no specific version

of the package is available for importing, unless you use `pkg_resources.require()` to put it on `sys.path`, or you are running a wrapper script generated by `setuptools` or `EasyInstall`. (In which case the wrapper script calls `require()` for you.)

Note that if you install to a directory other than `site-packages`, this option is automatically in effect, because `.pth` files can only be used in `site-packages` (at least in Python 2.3 and 2.4). So, if you use the `--install-dir` or `-d` option (or they are set via configuration file(s)) your project and its dependencies will be deployed in multi-version mode.

`--install-dir=DIR, -d DIR`

Set the installation directory (staging area). If this option is not directly specified on the command line or in a `distutils` configuration file, the `distutils` default installation location is used. Normally, this will be the `site-packages` directory, but if you are using `distutils` configuration files, setting things like `prefix` or `install_lib`, then those settings are taken into account when computing the default staging area.

`--script-dir=DIR, -s DIR`

Set the script installation directory. If you don't supply this option (via the command line or a configuration file), but you *have* supplied an `--install-dir` (via command line or config file), then this option defaults to the same directory, so that the scripts will be able to find their associated package installation. Otherwise, this setting defaults to the location where the `distutils` would normally install scripts, taking any `distutils` configuration file settings into account.

`--exclude-scripts, -x`

Don't deploy script wrappers. This is useful if you don't want to disturb existing versions of the scripts in the staging area.

`--always-copy, -a`

Copy all needed distributions to the staging area, even if they are already present in another directory on `sys.path`. By default, if a requirement can be met using a distribution that is already available in a directory on `sys.path`, it will not be copied to the staging area.

`--egg-path=DIR`

Force the generated `.egg-link` file to use a specified relative path to the source directory. This can be useful in circumstances where your installation directory is being shared by code running under multiple platforms (e.g. Mac and Windows) which have different absolute locations for the code under development, but the same *relative* locations with respect to the installation directory. If you use this option when

installing, you must supply the same relative path when uninstalling.

In addition to the above options, the `develop` command also accepts all of the same options accepted by `easy_install`. If you've configured any `easy_install` settings in your `setup.cfg` (or other distutils config files), the `develop` command will use them as defaults, unless you override them in a `[develop]` section or on the command line.

`easy_install` - Find and install packages

=====

This command runs the `EasyInstall` tool `<easy_install.html>` for you. It is exactly equivalent to running the `easy_install` command. All command line arguments following this command are consumed and not processed further by the distutils, so this must be the last command listed on the command line. Please see the `EasyInstall` documentation for the options reference and usage examples. Normally, there is no reason to use this command via the command line, as you can just use `easy_install` directly. It's only listed here so that you know it's a distutils command, which means that you can:

- * create command aliases that use it,
- * create distutils extensions that invoke it as a subcommand, and
- * configure options for it in your `setup.cfg` or other distutils config files.

.. `_egg_info`:

`egg_info` - Create egg metadata and set build tags

=====

This command performs two operations: it updates a project's `.egg-info` metadata directory (used by the `bdist_egg`, `develop`, and `test` commands), and it allows you to temporarily change a project's version string, to support "daily builds" or "snapshot" releases. It is run automatically by the `sdist`, `bdist_egg`, `develop`, `register`, and `test` commands in order to update the project's metadata, but you can also specify it explicitly in order to temporarily change the project's version string while executing other commands. (It also generates the `.egg-info/SOURCES.txt` manifest file, which is used when you are building source distributions.)

In addition to writing the core egg metadata defined by `setuptools` and required by `pkg_resources`, this command can be extended to write other metadata files as well, by defining

entry points in the `egg_info.writers` group. See the section on `Adding new EGG-INFO Files`_`` below for more details. Note that using additional metadata writers may require you to include a `setup_requires` argument to `setup()` in order to ensure that the desired writers are available on `sys.path`.

Release Tagging Options

The following options can be used to modify the project's version string for all remaining commands on the setup command line. The options are processed in the order shown, so if you use more than one, the requested tags will be added in the following order:

`--tag-build=NAME, -b NAME`

Append NAME to the project's version string. Due to the way `setuptools` processes "pre-release" version suffixes beginning with the letters "a" through "e" (like "alpha", "beta", and "candidate"), you will usually want to use a tag like ".build" or ".dev", as this will cause the version number to be considered *lower* than the project's default version. (If you want to make the version number *higher* than the default version, you can always leave off `--tag-build` and then use one or both of the following options.)

If you have a default build tag set in your `setup.cfg`, you can suppress it on the command line using `-b ""` or `--tag-build=""` as an argument to the `egg_info` command.

`--tag-svn-revision, -r`

If the current directory is a Subversion checkout (i.e. has a `.svn` subdirectory, this appends a string of the form "-rNNNN" to the project's version string, where NNNN is the revision number of the most recent modification to the current directory, as obtained from the `svn info` command.

If the current directory is not a Subversion checkout, the command will look for a `PKG-INFO` file instead, and try to find the revision number from that, by looking for a "-rNNNN" string at the end of the version number. (This is so that building a package from a source distribution of a Subversion snapshot will produce a binary with the correct version number.)

If there is no `PKG-INFO` file, or the version number contained therein does not end with `-r` and a number, then `-r0` is used.

`--no-svn-revision, -R`

Don't include the Subversion revision in the version number. This option is included so you can override a default setting put in `setup.cfg`.

`--tag-date, -d`

Add a date stamp of the form "-YYYYMMDD" (e.g. "-20050528") to the project's version number.

`--no-date, -D`

Don't include a date stamp in the version number. This option is included so you can override a default setting in `setup.cfg`.

(Note: Because these options modify the version number used for source and binary distributions of your project, you should first make sure that you know how the resulting version numbers will be interpreted by automated tools like EasyInstall. See the section above on `Specifying Your Project's Version` for an explanation of pre- and post-release tags, as well as tips on how to choose and verify a versioning scheme for your project.)

For advanced uses, there is one other option that can be set, to change the location of the project's `.egg-info` directory. Commands that need to find the project's source directory or metadata should get it from this setting:

Other `egg_info` Options

`--egg-base=SOURCEDIR, -e SOURCEDIR`

Specify the directory that should contain the `.egg-info` directory. This should normally be the root of your project's source tree (which is not necessarily the same as your project directory; some projects use a `src` or `lib` subdirectory as the source root). You should not normally need to specify this directory, as it is normally determined from the `package_dir` argument to the `setup()` function, if any. If there is no `package_dir` set, this option defaults to the current directory.

`egg_info` Examples

Creating a dated "nightly build" snapshot egg::

```
python setup.py egg_info --tag-date --tag-build=DEV bdist_egg
```

Creating and uploading a release with no version tags, even if some default

tags are specified in ``setup.cfg``:

```
python setup.py egg_info -RDb "" sdist bdist_egg register upload
```

(Notice that ``egg_info`` must always appear on the command line *before* any commands that you want the version changes to apply to.)

.. _install command:

``install`` - Run ``easy_install`` or old-style installation

=====

The setuptools ``install`` command is basically a shortcut to run the ``easy_install`` command on the current project. However, for convenience in creating "system packages" of setuptools-based projects, you can also use this option:

``--single-version-externally-managed``

This boolean option tells the ``install`` command to perform an "old style" installation, with the addition of an ``.egg-info`` directory so that the installed project will still have its metadata available and operate normally. If you use this option, you *must* also specify the ``--root`` or ``--record`` options (or both), because otherwise you will have no way to identify and remove the installed files.

This option is automatically in effect when ``install`` is invoked by another distutils command, so that commands like ``bdist_wininst`` and ``bdist_rpm`` will create system packages of eggs. It is also automatically in effect if you specify the ``--root`` option.

``install_egg_info`` - Install an ``.egg-info`` directory in ``site-packages``

=====

Setuptools runs this command as part of ``install`` operations that use the ``--single-version-externally-managed`` options. You should not invoke it directly; it is documented here for completeness and so that distutils extensions such as system package builders can make use of it. This command has only one option:

``--install-dir=DIR, -d DIR``

The parent directory where the ``.egg-info`` directory will be placed. Defaults to the same as the ``--install-dir`` option specified for the ``install_lib`` command, which is usually the system ``site-packages`` directory.

This command assumes that the ``egg_info`` command has been given valid options via the command line or ``setup.cfg``, as it will invoke the ``egg_info`` command and use its options to locate the project's source ``.egg-info`` directory.

.. _rotate:

``rotate`` - Delete outdated distribution files

=====

As you develop new versions of your project, your distribution (``dist``) directory will gradually fill up with older source and/or binary distribution files. The ``rotate`` command lets you automatically clean these up, keeping only the N most-recently modified files matching a given pattern.

``--match=PATTERNLIST, -m PATTERNLIST``

Comma-separated list of glob patterns to match. This option is *required*. The project name and ``-`` is prepended to the supplied patterns, in order to match only distributions belonging to the current project (in case you have a shared distribution directory for multiple projects). Typically, you will use a glob pattern like ``.zip`` or ``.egg`` to match files of the specified type. Note that each supplied pattern is treated as a distinct group of files for purposes of selecting files to delete.

``--keep=COUNT, -k COUNT``

Number of matching distributions to keep. For each group of files identified by a pattern specified with the ``--match`` option, delete all but the COUNT most-recently-modified files in that group. This option is *required*.

``--dist-dir=DIR, -d DIR``

Directory where the distributions are. This defaults to the value of the ``bdist`` command's ``--dist-dir`` option, which will usually be the project's ``dist`` subdirectory.

Example 1: Delete all .tar.gz files from the distribution directory, except for the 3 most recently modified ones::

```
setup.py rotate --match=.tar.gz --keep=3
```

Example 2: Delete all Python 2.3 or Python 2.4 eggs from the distribution directory, except the most recently modified one for each Python version::

```
setup.py rotate --match=-py2.3*.egg,-py2.4*.egg --keep=1
```


.. _saveopts:

```saveopts``` - Save used options to a configuration file

=====

Finding and editing ```distutils``` configuration files can be a pain, especially since you also have to translate the configuration options from command-line form to the proper configuration file format. You can avoid these hassles by using the ```saveopts``` command. Just add it to the command line to save the options you used. For example, this command

builds the project using the ```mingw32``` C compiler, then saves the `--compiler` setting as the default for future builds (even those run implicitly by the ```install``` command)::

```
setup.py build --compiler=mingw32 saveopts
```

The ```saveopts``` command saves all options for every command specified on the command line to the project's local ```setup.cfg``` file, unless you use one of the ```configuration file options``` to change where the options are saved. For example, this command does the same as above, but saves the compiler setting to the site-wide (global) `distutils` configuration::

```
setup.py build --compiler=mingw32 saveopts -g
```

Note that it doesn't matter where you place the ```saveopts``` command on the command line; it will still save all the options specified for all commands. For example, this is another valid way to spell the last example::

```
setup.py saveopts -g build --compiler=mingw32
```

Note, however, that all of the commands specified are always run, regardless of where ```saveopts``` is placed on the command line.

### Configuration File Options

-----

Normally, settings such as options and aliases are saved to the project's local ```setup.cfg``` file. But you can override this and save them to the global or per-user configuration files, or to a manually-specified filename.

```--global-config, -g```

Save settings to the global ```distutils.cfg``` file inside the ```distutils``` package directory. You must have write access to that directory to use this option. You also can't combine this option with ```-u``` or ```-f```.

`--user-config, -u`

Save settings to the current user's `~/pydistutils.cfg` (POSIX) or `~/pydistutils.cfg` (Windows) file. You can't combine this option with `-g` or `-f`.

`--filename=FILENAME, -f FILENAME`

Save settings to the specified configuration file to use. You can't combine this option with `-g` or `-u`. Note that if you specify a non-standard filename, the `distutils` and `setuptools` will not use the file's contents. This option is mainly included for use in testing.

These options are used by other `setuptools` commands that modify configuration files, such as the `alias` and `setopt` commands.

.. `_setopt`:

`setopt` - Set a distutils or setuptools option in a config file

=====

This command is mainly for use by scripts, but it can also be used as a quick and dirty way to change a distutils configuration option without having to remember what file the options are in and then open an editor.

Example 1. Set the default C compiler to `mingw32` (using long option names)::

```
setup.py setopt --command=build --option=compiler --set-value=mingw32
```

Example 2. Remove any setting for the distutils default package installation directory (short option names)::

```
setup.py setopt -c install -o install_lib -r
```

Options for the `setopt` command:

`--command=COMMAND,`

`-c COMMAND`

Command to set the option for. This option is required.

`--option=OPTION, -o OPTION`

The name of the option to set. This option is required.

`--set-value=VALUE, -s VALUE`

The value to set the option to. Not needed if ``-r`` or ``--remove`` is set.

``--remove, -r``

Remove (unset) the option, instead of setting it.

In addition to the above options, you may use any of the `configuration file options`_ (listed under the `saveopts`_ command, above) to determine which distutils configuration file the option will be added to (or removed from).

.. _test:

``test`` - Build package and run a unittest suite

=====

When doing test-driven development, or running automated builds that need testing before they are deployed for downloading or use, it's often useful to be able to run a project's unit tests without actually deploying the project anywhere, even using the ``develop`` command. The ``test`` command runs a project's unit tests without actually deploying it, by temporarily putting the project's source on ``sys.path``, after first running ``build_ext -i`` and ``egg_info`` to ensure that any C extensions and project metadata are up-to-date.

To use this command, your project's tests must be wrapped in a ``unittest`` test suite by either a function, a ``TestCase`` class or method, or a module or package containing ``TestCase`` classes. If the named suite is a module, and the module has an ``additional_tests()`` function, it is called and the result (which must be a ``unittest.TestSuite``) is added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite. (Note: if your project specifies a ``test_loader``, the rules for processing the chosen ``test_suite`` may differ; see the `test_loader`_ documentation for more details.)

Note that many test systems including ``doctest`` support wrapping their non-``unittest`` tests in ``TestSuite`` objects. So, if you are using a test package that does not support this, we suggest you encourage its developers to implement test suite support, as this is a convenient and standard way to aggregate a collection of tests to be run under a common test harness.

By default, tests will be run in the "verbose" mode of the ``unittest`` package's text test runner, but you can get the "quiet" mode (just dots) if you supply the ``-q`` or ``--quiet`` option, either as a global option to the setup script (e.g. ``setup.py -q test``) or as an option for the ``test`` command itself (e.g. ``setup.py test -q``). There is one other option

available:

```
--test-suite=NAME, -s NAME
```

Specify the test suite (or module, class, or method) to be run (e.g. `some_module.test_suite`). The default for this option can be set by giving a `test_suite` argument to the `setup()` function, e.g.:

```
setup(  
    # ...  
    test_suite  
= "my_package.tests.test_all"  
)
```

If you did not set a `test_suite` in your `setup()` call, and do not provide a `--test-suite` option, an error will occur.

.. `_upload`:

```
_upload - Upload source and/or egg distributions to PyPI
```

PyPI now supports uploading project files for redistribution; uploaded files are easily found by EasyInstall, even if you don't have download links on your project's home page.

Although Python 2.5 will support uploading all types of distributions to PyPI, `setuptools` only supports source distributions and eggs. (This is partly because PyPI's upload support is currently broken for various other file types.) To upload files, you must include the `_upload` command *after* the `sdist` or `bdist_egg` commands on the `setup` command line. For example::

```
setup.py bdist_egg upload    # create an egg and upload it  
setup.py sdist upload       # create a source  
distro and upload it  
setup.py sdist bdist_egg upload # create and upload both
```

Note that to upload files for a project, the corresponding version must already be registered with PyPI, using the `distutils register` command. It's usually a good idea to include the `register` command at the start of the command line, so that any registration problems can be found and fixed before building and uploading the distributions, e.g.:

```
setup.py register sdist bdist_egg upload
```

This will update PyPI's listing for your project's current version.

Note, by the way, that the metadata in your `setup()` call determines what

will be listed in PyPI for your package. Try to fill out as much of it as possible, as it will save you a lot of trouble manually adding and updating your PyPI listings. Just put it in `setup.py` and use the `register` command to keep PyPI up to date.

The `upload` command has a few options worth noting:

`--sign, -s`

Sign each uploaded file using GPG (GNU Privacy Guard). The `gpg` program must be available for execution on the system `PATH`.

`--identity=NAME, -i NAME`

Specify the identity or key name for GPG to use when signing. The value of this option will be passed through the `--local-user` option of the `gpg` program.

`--show-response`

Display the full response text from server; this is useful for debugging PyPI problems.

`--repository=URL, -r URL`

The URL of the repository to upload to. Defaults to <https://pypi.python.org/pypi> (i.e., the main PyPI installation).

.. `_upload_docs`:

`upload_docs` - Upload package documentation to PyPI

=====

PyPI now supports uploading project documentation to the dedicated URL <https://pythonhosted.org/<project>/>.

The `upload_docs` command will create the necessary zip file out of a documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version must already be registered with PyPI, using the distutils `register` command -- just like the `upload` command.

Assuming there is an `Example` project with documentation in the subdirectory `docs`, e.g.:

```
Example/  
|-- example.py  
|-- setup.cfg  
|-- setup.py
```

```

|-- docs
| |-- build
| | `-- html
| | | |-- index.html
| | | `-- tips_tricks.html
| |-- conf.py
| |-- index.txt
| `-- tips_tricks.txt

```

You can simply pass the documentation directory path to the ``upload_docs`` command::

```
python setup.py upload_docs --upload-dir=docs/build/html
```

If no ``--upload-dir`` is given, ``upload_docs`` will attempt to run the ``build_sphinx`` command to generate uploadable documentation.

For the command to become available, `Sphinx <<http://sphinx.pocoo.org/>>` must be installed in the same environment as distribute.

As with other ``setuptools``-based commands, you can define useful defaults in the ``setup.cfg`` of your

Python project, e.g.:

```
.. code-block:: ini
```

```

[upload_docs]
upload-dir = docs/build/html

```

The ``upload_docs`` command has the following options:

```
``--upload-dir``
```

The directory to be uploaded to the repository.

```
``--show-response``
```

Display the full response text from server; this is useful for debugging PyPI problems.

```
``--repository=URL, -r URL``
```

The URL of the repository to upload to. Defaults to <https://pypi.python.org/pypi> (i.e., the main PyPI installation).

 Extending and Reusing Setuptools

Creating ``distutils`` Extensions
 =====

It can be hard to add new commands or setup arguments to the distutils. But the ``setuptools`` package makes it a bit easier, by allowing you to distribute a distutils extension as a separate project, and then have projects that need the extension just refer to it in their ``setup_requires`` argument.

With ``setuptools``, your distutils extension projects can hook in new commands and ``setup()`` arguments just by defining "entry points". These are mappings from command or argument names to a specification of where to import a handler from. (See the section on `Dynamic Discovery of Services and Plugins`_ above for some more background on entry points.)

Adding Commands

You can add new ``setup`` commands by defining entry points in the ``distutils.commands`` group. For example, if you wanted to add a ``foo`` command, you might add something like this to your distutils extension project's setup script::

```
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
    },
)
```

(Assuming, of course, that the ``foo`` class in ``mypackage.some_module`` is a ``setuptools.Command`` subclass.)

Once a project containing such entry points has been activated on ``sys.path``, (e.g. by running "install" or "develop" with a site-packages installation directory) the command(s) will be available to any ``setuptools``-based setup scripts. It is not necessary to use the ``--command-packages`` option or to monkeypatch the ``distutils.command`` package to install your commands; ``setuptools`` automatically adds a wrapper to the distutils to search for entry points in the active distributions on ``sys.path``. In fact, this is how setuptools' own commands are installed: the setuptools project's setup script defines entry points for them!

Adding ``setup()`` Arguments

Sometimes, your commands may need additional arguments to the `setup()` call. You can enable this by defining entry points in the `distutils.setup_keywords` group. For example, if you wanted a `setup()` argument called `bar_baz`, you might add something like this to your distutils extension project's setup script::

```
setup(
    # ...
    entry_points = {
        "distutils.commands":
    [
        "foo = mypackage.some_module:foo",
    ],
        "distutils.setup_keywords": [
            "bar_baz = mypackage.some_module:validate_bar_baz",
        ],
    },
)
```

The idea here is that the entry point defines a function that will be called to validate the `setup()` argument, if it's supplied. The `Distribution` object will have the initial value of the attribute set to `None`, and the validation function will only be called if the `setup()` call sets it to a non-None value. Here's an example validation function::

```
def assert_bool(dist, attr, value):
    """Verify that value is True, False, 0, or 1"""
    if bool(value) != value:
        raise DistutilsSetupError(
            "%r must be a boolean value (got %r)" % (attr,value)
        )
```

Your function should accept three arguments: the `Distribution` object, the attribute name, and the attribute value. It should raise a `DistutilsSetupError` (from the `distutils.errors` module) if the argument is invalid. Remember, your function will only be called with non-None values, and the default value of arguments defined this way is always None. So, your commands should always be prepared for the possibility that the attribute will be `None` when they access it later.

If more than one active distribution defines an entry point for the same `setup()` argument, **all** of them will be called. This allows multiple distutils extensions to define a common argument, as long as they agree on what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch

the `distutils ``Distribution``` class in order to add your arguments; it is sufficient to define the entry points in your extension, as long as any setup script using your extension lists your project in its ```setup_requires``` argument.

Adding new EGG-INFO Files

Some extensible applications or frameworks

may want to allow third parties to

develop plugins with application or framework-specific metadata included in

the plugins' EGG-INFO directory, for easy access via the ```pkg_resources```

metadata API. The easiest way to allow this is to create a `distutils` extension

to be used from the plugin projects' setup scripts (via ```setup_requires```)

that defines a new setup keyword, and then uses that data to write an EGG-INFO file when the ```egg_info``` command is run.

The ```egg_info``` command looks for extension points in an ```egg_info.writers```

group, and calls them to write the files. Here's a simple example of a

`distutils` extension defining a setup argument ```foo_bar```, which is a list of

lines that will be written to ```foo_bar.txt``` in the EGG-INFO directory of any

project that uses the argument::

```
setup(
    # ...
    entry_points = {
        "distutils.setup_keywords": [
            "foo_bar = setuptools.dist:assert_string_list",
        ],
        "egg_info.writers":
    [
        "foo_bar.txt = setuptools.command.egg_info:write_arg",
    ],
    },
)
```

This simple example makes use of two utility functions defined by `setuptools`

for its own use: a routine to validate that a setup keyword is a sequence of

strings, and another one that looks up a setup argument and writes it to

a file. Here's what the writer utility looks like::

```
def write_arg(cmd, basename, filename):
    argname = os.path.splitext(basename)[0]
    value = getattr(cmd.distribution, argname, None)
    if value is not None:
        value = '\n'.join(value)+'\n'
    cmd.write_or_delete_file(argname, filename, value)
```

As you can see, `egg_info.writers` entry points must be a function taking three arguments: a `egg_info` command instance, the basename of the file to write (e.g. `foo_bar.txt`), and the actual full filename that should be written to.

In general, writer functions should honor the command object's `dry_run` setting

when writing files, and use the `distutils.log` object to do any console output. The easiest way to conform to this requirement is to use the `cmd` object's `write_file()`, `delete_file()`, and `write_or_delete_file()` methods exclusively for your file operations. See those methods' docstrings for more details.

Adding Support for Other Revision Control Systems

If you would like to create a plugin for `setuptools` to find files in other source control systems besides CVS and Subversion, you can do so by adding an entry point to the `setuptools.file_finders` group. The entry point should be a function accepting a single directory name, and should yield all the filenames within that directory (and any subdirectories thereof) that are under revision control.

For example, if you were going to create a plugin for a revision control system called "foobar", you would write a function something like this:

```
.. code-block::
python

def find_files_for_foobar(dirname):
    # loop to yield paths that start with `dirname`
```

And you would register it in a setup script using something like this::

```
entry_points = {
    "setuptools.file_finders": [
        "foobar = my_foobar_module:find_files_for_foobar"
    ]
}
```

Then, anyone who wants to use your plugin can simply install it, and their local `setuptools` installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that simply use the other source control system, or to specify the plugins in `setup_requires`. When you create a source distribution with the `sdist`

command, setuptools automatically records what files were found in the ```SOURCES.txt``` file. That way, recipients of source distributions don't need to have revision control at all. However, if someone is working on a package by checking out with that system, they will need the same plugin(s) that the original author is using.

A few important points for writing revision control file finders:

- * Your finder function **MUST** return relative paths, created by appending to the passed-in directory name. Absolute paths are **NOT** allowed, nor are relative paths that reference a parent directory of the passed-in directory.
- * Your finder function **MUST** accept an empty string as the directory name, meaning the current directory. You **MUST NOT** convert this to a dot; just yield relative paths. So, yielding a subdirectory named ```some/dir``` under the current directory should **NOT** be rendered as ```./some/dir``` or ```~/somewhere/some/dir```, but **always** as simply ```some/dir```
- * Your finder function **SHOULD NOT** raise any errors, and **SHOULD** deal gracefully with the absence of needed programs (i.e., ones belonging to the revision control system itself. It **may**, however, use ```distutils.log.warn()``` to inform the user of the missing program(s).

Subclassing ```Command```

Sorry,
this section isn't written yet, and neither is a lot of what's below this point, except for the change log. You might want to `subscribe` to changes in this page `<setuptools?action=subscribe>`_`` to see when new documentation is added or updated.

XXX

Reusing ```setuptools``` Code

=====

```ez_setup```

-----

XXX

```setuptools.archive_util```

XXX

``setuptools.sandbox``

XXX

``setuptools.package_index``

XXX

Mailing List and Bug Tracker

=====

Please use the `distutils-sig mailing list`_ for questions and discussion about setuptools, and the `setuptools bug tracker`_ ONLY for issues you have confirmed via the list are actual bugs, and which you have reduced to a minimal set of steps to reproduce.

.. _distutils-sig mailing list: <http://mail.python.org/pipermail/distutils-sig/>

.. _setuptools bug tracker: <https://bitbucket.org/pypa/setuptools/>

Found

in path(s):

* /opt/cola/permits/1155085362_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/docs/setuptools.txt

1.418 curl 7.76.0

1.418.1 Available under license :

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1.419 colorama 0.3.3

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1.420 berkeley-db 5.3.21-17.el7_0.1

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1.421 git 2.18.5 r0.0

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* /opt/cola/permits/1159723191_1624600465.05/0/git-2.18.5-r0.0.x86_64.src.rpm-cosi-expand-archive-XIii1NzC/usr/lib64/git/git-core/git-web--browse

* /opt/cola/permits/1159723191_1624600465.05/0/git-2.18.5-r0.0.x86_64.src.rpm-cosi-expand-archive-

1.422 pnp 1.8.0.dev16

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```
[bdist_rpm]
release = 1
packager = Network Plug-n-Play <pnp-dev@cisco.com>
doc_files = README.rst
no-autoreq = 1
post-install = pnp/data/cfg/post_install_rpm.sh
rpm-base = ./rpmbuild
binary-only = 1
description = Plug-n-Play Agent for Cisco Network-PnP
keep-temp = 1
```

```
[install]
prefix = /isan
install_lib = /isan/python/scripts
```

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

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* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/setup.cfg

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```
Metadata-Version: 1.1
Name: pnp
Version: 1.8.0.dev16
Summary: Plug-n-Play Agent for Cisco Network-PnP
Home-page: https://developer.cisco.com/site/open-plug-n-play/
Author: Network Plug-n-Play
Author-email: pnp-support@cisco.com
License: Cisco Proprietary
Description: UNKNOWN
Keywords: posix pnp agent plug-n-play client
Platform: UNKNOWN
Classifier: Operating System :: POSIX :: Linux
Classifier: Programming Language :: Python :: 2.7
```

Found in path(s):

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/PKG-INFO

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp.egg-info/PKG-INFO

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* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/discovery/mechanisms/cco_discovery.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/capwap.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/platform_constants.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/system/vbond.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/utils/timer.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/network/connection_manager.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/discovery/infra/notify.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/event.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/service/action.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/service/services/redirection.py

*

/opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/system/certificate.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/vbond.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/system/wlc.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/vrf.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/service/services/certificate_install.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/wlc.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/xml/xmlgenerator.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/xml/xmlparser.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/pnp_infra.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/discovery/api/notify.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/profile/profile.py

*

/opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/network/vrf.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/system/capwap.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/discovery/infra/lease_parser.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/objects.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/system/interface_info_db.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/device.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-

gz/pnp/discovery/mechanisms/platform_discovery.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/system/script_exec.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/discovery/mechanisms/dhcp_discovery.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/sudi.py

*

/opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/utils/pnp_constants.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/utils/pnp_file_paths.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/discovery/api/platform_discovery.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/utils/pnp_logging.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/discovery/infra/discovery_manager.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/clock_sync.py

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/agent.py

```

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/faults.py
* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/discovery/api/lease_parser.py
* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/system/event.py
* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/profile/profile_manager.py
*
/opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/service/services/tag.py
* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/api/cdp.py
* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/service/handler.py
* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/system/clock_sync.py
* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/network/security.py
* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/network/connection_client.py
* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/system/cdp.py
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/opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/discovery/infra/errors.py
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* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/discovery/mechanisms/dns_discovery.py
*
/opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/utls/file_utls.py
* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/exec_log.py
* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/service/services/script.py
* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/errors.py
* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/service/services/device_auth.py
* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/service/services/topology.py
* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/system/device.py
* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/network/resolve.py
* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/service/services/capability.py
* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/service/services/device_info.py
* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/pnp/infra/system/user_auth.py
No license file was found, but licenses were detected in source scan.

```

license='Cisco Proprietary',

Found in path(s):

```

* /opt/cola/permits/1155085380_1620410460.72/0/posix-pnp-tar-gz/setup.py

```

1.423 python-pip 21.0.1

1.423.1 Available under license :

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Version 2.1, February 1999

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team.

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2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes

2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
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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
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
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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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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
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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:

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

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

Just configure this file as the SSLCACertificateFile.#

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

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1.424 python-pip 7.1.0

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1.425 curl 7.77.0

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1.426 libtecla 1.4.1

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1.427 openssl 1.0.2za

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1.432 procps 3.3.15

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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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1.433 shadow 4.2.1

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Version 2, June 1991

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@item

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1.435 golang 1.5.3

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