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Text Part Number: 78EE117C99-2515895191

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California some years back [Samuel H. Smith, The Tool Shop; as of mid-

May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

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

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and by default
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remains indebted and grateful to him. We hope he finds our contribu-
tions as useful as we have his.

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The remaining code was written by many people associated with the
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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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more complete list of contributors.

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

1.2 lasso 2.5.1

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1.3 libmnl 1.0.4

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1.6 bzip2 1.0.8

1.7 dmidecode 3.3

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1.8 libdaemon 0.14

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1.9 zeromq 4.2.3

1.9.1 Available under license :

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1.10 net-tools 2.10

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1.11 ipmi-tool 1.8.18

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1.12 libcroco 0.6.13

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

the object

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That's all there is to it!

1.13 fbset 2.1

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Version 2, June 1991

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```
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This
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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1.14 hwloc 1.11.13

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1.16 cpio 2.13

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1.17 sed 4.8

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A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting

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

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

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

All

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

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

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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1.22 websocketpp 0.8.2

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base64.cpp and base64.h

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

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***** MD5 Library (common/md5.hpp) *****

md5.hpp is a reformulation of the md5.h and md5.c code from <http://www.opensource.apple.com/source/cups/cups-59/cups/md5.c> to allow it to function as a component of a header only library. This conversion

was done by
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***** UTF8 Validation logic (utf8_validation.hpp) *****

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@end smallexample

That's all there is to it!
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The libasprintf package is under the LGPL, see file COPYING.LIB.
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@center Version 2, June 1991

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@c hence no sectioning command or @node.

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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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@page

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

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

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

@smallexample

@var{one line to give the program's name
and a brief idea of what it does.}

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

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@end smallexample

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

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

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

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

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:

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

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

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The gettext-runtime package is partially under the LGPL and partially under the GPL.

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

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- the _programs_ gettext, ngettext, envsubst,
- the documentation.

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Version 2.1, February 1999

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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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"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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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:

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

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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.

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.

^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.

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```
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1.29 pciutils 3.7.0

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1.31 libcap-ng 0.8.2

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1.36 dosfs-tools 4.2

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1.38 bridgeutils 1.7.1

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```
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```

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1.41 tar 1.34

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1.43 libssh 0.8.9

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Any executables

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1.44 libpcap 1.10.1

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```

1.46 kmod 29

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Version 2.1, February 1999

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1.58 libseccomp 2.5.3

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

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1.63 glibc 2.35

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1.66 urllib3 1.26.9

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1.67 python3-asn1crypto 1.5.1

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1.69 libvirt-python 8.1.0

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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
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1.71 elfutils 0.186

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Version 3, 29 June 2007

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1.72 lua 5.4.4

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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
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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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1.74 libxml2 2.9.14

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1.75 cryptsetup 2.4.3

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/*

* integritysetup - setup integrity protected volumes for dm-integrity

*

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1.76 iproute 5.17.0

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```
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```
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```

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1.77 libns! 2.0.0

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1.78 tdb 1.46.5

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#

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

#

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

#

BSDLIB_VERSION = 1.0

BSDLIB_IMAGE = libce

BSDLIB_MYDIR = et

BSDLIB_INSTALL_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

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

BSDLIB_PIC_FLAG = -fpic

image: \$(BSD_LIB)

\$(BSD_LIB): \$(OBJS)

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

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

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

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

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

install-shlibs install:: \$(BSD_LIB)

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

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

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

@-\$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

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

clean::

\$(RM)

-rf pic

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

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

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

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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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Gadi Oxman, August 1995

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Theodore Ts'o
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```
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```
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```

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

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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:

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

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

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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1.79 mdadm 4.2

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* /mdadm-4-1-1-x86-64-pkg-tar-xz/usr/share/man/man5/mdadm-conf-5-gz/mdadm.conf.5

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Found in path(s):

* /mdadm-4-1-1-x86-64-pkg-tar-xz/usr/lib/systemd/system/mdadm-grow-continue@.service

* /mdadm-4-1-1-x86-64-pkg-tar-xz/usr/lib/systemd/system/mdmonitor.service

* /mdadm-4-1-1-x86-64-pkg-tar-xz/usr/lib/systemd/system/mdmon@.service

1.80 smartmontools 7.3

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1.81 gnutls 3.7.4

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1.84 findutils 4.9.0

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1.86 pigz 2.7

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1.87 libatomic 10.3.0

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<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-10 source package is taken from the SVN gcc-10-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation

Ada			
	gnat-10	libgnat-10	gnat-10-doc
BRIG	gccbrig-10	libhsail-rt0	
C	gcc-10		gcc-10-doc
C++	g++-10	libstdc++6	libstdc++6-10-doc
D	gdc-10		
Fortran 95	gfortran-10	libgfortran5	gfortran-10-doc
Go	gccgo-10	libgo0	
Objective C	gobjc-10	libobjc4	
Objective C++	gobjc++-10		
Modula-2	gm2-10	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent

C++		libstdc++6-10-dev	libstdc++6-10-dbgsym	libstdc++6-10-pic
D	libphobos-10-dev			

Additional packages include:

All languages:

libgcc1,
libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-10-base Base files common to all compilers
gcc-10-software-floating-point Software floating point (ARM only)
gcc-10-source The sources with patches

Ada:

libgnat-util10-dev, libgnat-util10 GNAT version library

C:

cpp-10, cpp-10-doc	GNU C Preprocessor
libssp0-dev, libssp0	GCC stack smashing protection library
libquadmath0	Math routines for the __float128 type
fixincludes	Fix non-ANSI header files

C, C++ and Fortran 95:

libgomp1-dev, libgomp1	GCC OpenMP (GOMP) support library
libitm1-dev, libitm1	GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can

also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libitm
- libssp
- libstdc++-v3
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- libgfortran
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Developed by:

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libquadmath/math:

atanq.c, expm1q.c, j0q.c, j1q.c, log1pq.c, logq.c:

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coshq.c, erfq.c, jnq.c, lgammaq.c, powq.c, roundq.c:

Changes for 128-bit __float128 are

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- * Conversion to long double by Ulrich Drepper,
- * Cygnus Support, drepper@cygnus.com.

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D:

gdc-10 GNU D Compiler

libphobos-10-dev D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:

- d/*

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The DMD Compiler implementation of the D programming language:

- d/dmd/*

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The Zlib data compression library:

- d/phobos/etc/c/zlib/*

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The Phobos standard runtime library:

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gcc/m2/gm2-libiberty:

gcc/m2/mc-boot/:

gcc/m2/mc-boot-ch/:

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gcc/m2/gm2-coroutines:

gcc/m2/gm2-libs:

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gcc/m2/gm2-libs-pim:

gcc/m2/gm2-libs-ch:

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gcc/m2/gm2-libs-iso/*.def:

Library module defined by the International Standard

Information technology - programming languages

BS ISO/IEC 10514-1:1996E Part 1: Modula-2, Base Language.

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gcc/testsuite/gm2/:

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libgm2:

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libgm2/libpim/:

libgm2/liblog/:

libgm2/libcor/:

libgm2/libmin/:

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1.88 html5lib 1.1

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1.92 cryptography 36.0.2

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

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1.94 pyparsing 3.0.7

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1.95 rng-tools 6.15

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1.97 glib 2.72.3

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1.100 coreutils 9.0

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1.102 open-ldap 2.5.12

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1.103 libffi 3.4.4

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1.104 protobuf 3.21.6

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* VI syntax highlighting tweaks.
* Fix compiler to not make output executable.

Dilip Joseph <dilip.antony.joseph@gmail.com>
* Heuristic detection of sub-messages when printing unknown fields in text format.

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* Added @Override annotation to generated Java code where appropriate.

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* Solaris 10 + Sun Studio fixes.

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* MS Visual Studio error format option.
* Detect unordered_map in stl_hash.m4.

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* gzip/zlib I/O support.

Michael Poole <mdpooles@troilus.org>
* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
* Added generation of field number constants.

Wink Saville <wink@google.com>
* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>

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

Scott Stafford <scott.stafford@gmail.com>

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

Alexander Melnikov <alm@sibmail.ru>

- * HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

- * Detect whether zlib is new enough in configure script.
- * Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

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

Michael Kucharski <m.kucharski@gmail.com>

- * Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>

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

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- * Fixed detection of sched_yield on Solaris.
- * Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

- * Fixed minor IBM xLC compiler build issues
- * Added atomicops for AIX (POWER)

Nipunn Koorapati <nipunn1313@gmail.com>

- * Provide a type alias field ValueType

on EnumTypeWrapper

- * Match service argument names to abstract interface

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1.105 distlib 0.3.6

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

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

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

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

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

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

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Distutils2 Contributors

=====

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

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

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

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martn Brugu
- Nicolas Cadou
- Godefroid Chapelle
- Julien Courteau
- Christophe Combelles
- Jason R. Coombs
- Pierre-Yves David
- Ned Deily
- Konrad DeLong
- Josip Djolonga
- John Edmonds

- Andr Espaze
- Boris Feld
- Andrew Francis
- Hallvard B Furuseth
- Patrice Gauthier
- Yannick Gingras
- Filip Gruszczyski
- Walker Hale IV
- Alexandre Hamelin
- Kelsey Hightower
- Thomas Holmes
- Preston Holmes
- Christian Hudon
- Julien Jehannet
- Jeremy Kloth
- Thomas Kluyver
-
- Amos Latteier
- Mathieu Leduc-Hamel
- Pierre Paul Lefebvre
- Tshepang Lekhonkhobe
- Alain Leufroy
- Janusz Lewandowski
- Martin von Lwis
- Hugo Lopes Tavares
- Guillermo Lpez-Anglada
- Justin Love
- Simon Mathieu
- Carl Meyer
- Alexis Mtaireau
- Julien Miotte
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- Paul Moore
- Michael Mulich
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- George Peristerakis
- Mathieu Perreault
- Guillaume Pratte
- Sean Reifschneider
- Antoine Reversat
- Arc Riley
- C. Anthony Risinger
- Elson Rodriguez
- Luis Rojas
- Erik Rose
- Brian Rosner

- Vinay Sajip
- Victor Stinner
- Alexandre Vassalotti
- Nadeem Vawda

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1.107 boost 1.81.0

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1.108 urllib3 1.26.14

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1.109 python-requests 2.28.2

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

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

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

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

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

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

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A. HISTORY OF THE SOFTWARE

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

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

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

non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

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

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

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(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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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting

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

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

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

All

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

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

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```
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```

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

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1.113 libgpg-error 1.44

1.113.1 Available under license :

LGPL-2.0+

1.114 time 1.9

1.114.1 Available under license :

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1.115 gobject-introspection 1.72.0

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Any

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b) You must cause the files modified to carry prominent notices

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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.

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

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

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

the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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<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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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

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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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(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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1.117 gdb 11.2

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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.

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.

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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.

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.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

<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.

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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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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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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.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a

"work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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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".)

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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.

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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 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.

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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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Version 3, 29 June 2007

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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.]

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in

a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,

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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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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

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Appendix: How to Apply These Terms to Your New Libraries

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

<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!

@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
Copyright @copyright{ } 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

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@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@appendix GNU GENERAL PUBLIC LICENSE
@c The GNU General Public License.
@center Version 3, 29 June 2007

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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.

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@heading TERMS AND CONDITIONS

@enumerate 0

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

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@item Source Code.

The ``source code" for a work means the preferred form of the work for

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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.

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@item

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@item

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.

@item

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.

@item

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.

@item

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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@c man end

1.118 sysv-init 3.01

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1.119 lxc 4.0.12

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1.120 yajl 2.1.0

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1.121 protobuf-c 1.4.1

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

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

@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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@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source

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

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}

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

@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

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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@enumerate a

@item

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

@item

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

@item

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

@end enumerate

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

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

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

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the scope of this License.

@item

You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

@enumerate a

@item

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

@item

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

@item

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

@end enumerate

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

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts
as

distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

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Each

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of promoting the sharing and reuse of software generally.

@iftex

@heading NO WARRANTY

@end iftex

@ifinfo

@center

NO WARRANTY

@end ifinfo

@item

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@end enumerate

@iftex

@heading END OF TERMS AND CONDITIONS

@end iftex

@ifinfo

@center END OF TERMS AND CONDITIONS

@end ifinfo

@page

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

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it

free software which everyone can redistribute and change under these terms.

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

```
@smallexample
@var{one line to give the program's name
and a brief idea of what it does.}
Copyright (C) @var{yyyy} @var{name of author}
```

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

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You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
@end smallexample

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

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

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

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

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:

@example

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

@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice

@end example

This General

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proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
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1.127 linux-kernel 5.15.126

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

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* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

* interrupts us (except possibly for removal/insertion of the cable?)

* 10/4/97 - began heavy inline documentation of the code. Corrected typos

* and spelling mistakes.

* 10/5/97 - added code to handle PHY interrupts, disable PHY on

* loss of link, and correctly re-enable PHY when link is

* re-established. (put back CFG_PHYIE)

*

* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

*

* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

```

*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
  lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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*
* M. Welsh, 6 July 1996
*
*
*/

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1.129 fuse 2.9.9

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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.132 libcap 2.66

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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 <https://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

All

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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2.2 and above 2.1.1 2001-now
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1.135 util-linux 2.38

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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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Version 2.1, February 1999

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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```
#!/usr/bin/env bash
```

```
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
```

```
# This script will read the license file into memory, strip out the copyright, and then
```

```
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
```

```
set -e
```

```
calculate_md5_sum() {
```

```
    local FILE="$1"
```

```
    # Read the contents of the file into a variable
```

```
    local raw_license_text=$(<"$FILE")
```

```
    # Convert to lowercase
```

```
    local lowercase_license_text="{raw_license_text,,}"
```

```
    # Remove anything before the beginning of the license
```

```
    local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")
```

```
    # Replace line breaks (Windows or Linux) with a single space
```

```
    local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")
```

```
    # Replace multiple spaces with a single space
```

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

```
    # Strip away any non-printable, non-whitespace characters
```

```
    local clean_unprintable_license_text=$(tr
```

```
-cd '[:print:][:space:]' <<< "$normalized_license_text")
```

```
    # Remove punctuation and special characters
```

```
    local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')
```

```
    # Calculate the MD5 sum of the cleaned license text
```

```
    local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')
```

```
    # Output the MD5 sum
```

```
    echo "$MD5SUM"
```

```
}
```

```
# Check if the FILE argument is provided
```

```
if [ -z "$1" ]; then
```

```

echo "Please provide a FILE as an argument."
exit 1
fi

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

;9GimCN7g

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

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

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

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

1.136 e2fsprogs 1.46.5

1.136.1 Available under license :

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

```

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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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```
Gnomovision version 69, Copyright (C) 19yy name of author
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for details type `show w'.
This is free software, and you are welcome to redistribute it
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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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Theodore Ts'o
23-June-2007

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Version 2, June 1991

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```

```
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Ty Coon, President of Vice
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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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1.140 perl 5.34.1

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```
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```
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program 'Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

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1.141 net-snmp 5.8

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Upstream-Name: rdma-core

Upstream-Contact: Doug Ledford <dledford@redhat.com>,

Leon Romanovsky <Leon@kernel.org>

Source: <https://github.com/linux-rdma/rdma-core>

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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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^L

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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.

^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.

^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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END OF TERMS AND CONDITIONS

^L

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

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

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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

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

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

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

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

That's all there is to it!

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

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

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

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

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan

wrote:

> I understand that, and you're welcome to bring it up with Alec directly

> and see if he wants to relicense his code as LGPL... but at this point,

> it was enough to just get it consistent and documented as to what it was

> released under. This wasn't actually a license change, just a

> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20

GPL-2 ... it was a modified artistic license ... i didnt notice the license=

=20

change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=

eir=20

applications are also GPL-2 which imo is just wrong. it isnt the place of =

a=20

library to dictact to application writes what license they should be using.=

=20

thus LGPL-2.1 enters to fill this void.

=2Dmike

Re: [Cracklib-devel]

cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan

> Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

> > I understand that, and you're welcome to bring it up with Alec

> directly

> > and see if he wants to relicense his code as LGPL... but at this

> point,

> > it was enough to just get it consistent and documented as to what

> it was

> > released under. This wasn't actually a license change, just a

> > clarification of the licensing that was already in place.

>=20

> the original license (before moving to sourceforge -- aka, 2.7) was

> not

> GPL-2 ... it was a modified artistic license ... i didnt notice the

> license

> change until it was mentioned in the latest notes.

>=20

> unlike the old license, GPL-2 prevents people from using cracklib

> unless their

> applications are also GPL-2 which imo is just wrong. it isnt the

> place of a

> library

to dictact to application writes what license they should

> be using.

> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I

think it is in everyone's

best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional

code, so whatever licensing y'all come up with is fine

> > by me.

>

> I am sympathetic. Guys, what do you reckon?

>

> What I am hearing so far is that LGPL makes sense, since it can be

> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

> > > Seems like the ideal thing here would be for you and the other distro

> > > maintainers to get together with Alec in a conversation and come to a

> > > decision as to what licensing scheme y'all want. I haven't really done

> > > much other than cleaning up the packaging and patches and a small

> > > bit of

> > > additional code, so whatever licensing y'all come up with is fine

> > > by me.

> >

> > I am sympathetic. Guys, what do you reckon?

> >

> > What I am hearing so far is that LGPL makes sense, since it can be

> > linked with any code, not just GPL...

>

> My apologies for not chiming in in anything resembling a reasonable

> timeframe.

>

> I'd also suggest the LGPL, for the reason you noted above. Alternately,

> GPLv2 with the option of using
the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October
2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the

interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From
alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.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.umn.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.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91GxtpR020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
[82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 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.umn.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

1.144 pam 1.5.2

1.144.1 Available under license :

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Version 2.1, February 1999

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1.145 diffutils 3.10

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Version 3, 29 June 2007

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1.146 python-setuptools 65.5.0

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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
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```
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```

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`validate-pyproject`

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1.148 libevent 2.1.12

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1.149 pcre 8.45

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1.150 python-certifi 2022.12.07

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1.151 libtasn 4.19.0

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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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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.

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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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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

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copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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The

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1.152 python-certifi 2021.10.08

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1.154 d-bus 1.14.8

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1.155 gawk 5.1.1

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b) Use a suitable shared library

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* AOL

<http://www.aleksey.com/pipermail/xmlsec/2003/005488.html>

<http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm>

* Cordys R&D BV

<http://www.aleksey.com/pipermail/xmlsec/2003/005581.html>

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man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
man/fgetln.3bsd

man/fgetwln.3bsd
man/fpurge.3bsd
man/funopen.3bsd
man/getbsize.3bsd
man/heapsort.3bsd
man/nlist.3bsd
man/pwcache.3bsd
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man/radixsort.3bsd
man/reallocarray.3bsd
man/reallocf.3bsd
man/setmode.3bsd
man/strmode.3bsd
man/strnstr.3bsd
man/strtoi.3bsd
man/strtou.3bsd
man/unvis.3bsd
man/vis.3bsd
man/wcsncpy.3bsd

src/getbsize.c

src/heapsort.c

src/merge.c

src/nlist.c

src/pwcache.c

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man/fmtcheck.3bsd

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src/arc4random_openbsd.h

src/arc4random_uniform.c

src/arc4random_unix.h

src/arc4random_win.h

src/closefrom.c

src/freezero.c

src/getentropy_aix.c

src/getentropy_bsd.c

src/getentropy_hpux.c

src/getentropy_hurd.c

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1.164 Ittnng-ust 2.13.6

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snprintf/wcio.h:5
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THANKS

Thanks to Ericsson for funding this work, providing real-life use cases, and testing.

Special thanks to Michel Dagenais and the

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1.165 cpprest 2.10.18

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base64.cpp and base64.h

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That's all there is to it!
Mathieu Desnoyers
May 13th, 2009

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

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

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

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

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

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

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

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

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

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

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

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DRuntime: Runtime Library for the D Programming Language

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1.172 dtc 1.6.1

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David Gibson <david@gibson.dropbear.id.au>

(principal original author of dtc and libfdt)

2 November 2007

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1.174 supervisor 4.2.4

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1.175 six 1.16.0

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Ben Bariteau
Ned Batchelder
Wouter Bolsterlee
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Jon Dufresne
Tim Graham
Thomas Grainger
Max Grender-Jones
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1.176 pyparsing 3.0.9

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1.177 tomli 2.0.1

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1.178 pycparser 2.21

1.178.1 Available under license :

pycparser -- A C parser in Python

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1.179 ncurses 6.3+20220423

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*/
```

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* /multipart-parser-c-master-3-zip/multipart-parser-c-master/multipart_parser.h

* /multipart-parser-c-master-3-zip/multipart-parser-c-master/multipart_parser.c

1.181 libunwind 1.8.1

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1.182 msmtplib 1.8.20

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*

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*

* Petr Vandrovec <vandrove@vc.cvut.cz>:
* -grayscale, -rgba, -nonstd, VGA modes reporting

*

* Brad Midgley <brad@exodus.pht.com>:
* -match

*

*/

Found in path(s):

* /fbset-2-1-orig-tar-gz/fbset-2.1/fbset.c

1.187 gdbm 1.23

1.187.1 Available under license :

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Version 3, 29 June 2007

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1.189 kerberos 1.17.2

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lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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lib/krb5/kadm5/kadm_host_srv_names.c
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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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/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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`-nosvn -novc -noeclipse | xargs grep -i -L Copyright`

(See the `find_textfiles`

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See [svn changeset r39632](<https://github.com/unicode-org/icu/commit/0001f6c5e92f6f3a8d66c7dbc47cc24df7633a71>) for


```

an example; there should be only two files to update.
## -*-makefile-*-
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

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

```

```

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

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

## Versioned libraries rules

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

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

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

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

## End BSD-specific setup
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1.192 init-ifupdown 1.0

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1.193 tipc-utils

2.2.0+gitAUTOINC+7ab2211b87

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```
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*  
* Short description:  
* -----  
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- *
- * -----
- */

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* /repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-gz/demos/c_api_demo/tipc_c_api_top_subscr.c

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```
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*
* tipc_ts_server_linux.c
*
* Short description: Portable TIPC Test Suite -- server wrapper for Linux
*
* -----
*
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 *
 * -----
 */

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```
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 *
 * tipc_ts_client.c
 *
 * Short description: Portable TIPC Test Suite -- common client routines
 *
 * -----
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 *
 * -----
 */

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```
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 *
 * client_tipc.c
 *
 * Short description: TIPC multicast demo (client side)
 *
 * -----
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path(s):

* /repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-gz/demos/multicast_demo/client_tipc.c

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/* -----

*

* tipc_ts_server.c

*

* Short description: Portable TIPC Test Suite -- common server routines

*

* -----

*

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/* -----

*

* mcast_tipc.c

*

* Short description: TIPC multicast demo (client side)

*

* -----

*

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* -----

*/

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* /repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-gz/multicast_blast/group_cast.c

*
/repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-gz/multicast_blast/mcast_tipc.c
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```
/* -----  
*  
* common_tipc.h  
*  
* Short description: TIPC benchmark demo (common definitions and functions)  
*  
* -----  
*  
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*  
* -----  
*/
```

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* /repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-gz/demos/benchmark/common_tipc.h
No license file was found, but licenses were detected in source scan.

```
/* -----  
*
```

```

* tipcc.h
*
* Short description: TIPC C binding API. The complete TIPC socket API with all
* standard features is available in <linux/tipc.h>
*
* -----
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*
* Version 0.9.3: Jon Maloy, 2015
*
* -----
*/

```

Found in path(s):

```
* /repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-gz/demos/c_api_demo/tipcc.h
```

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

```

/* -----
*
* server_tipc.c
*
* Short description: TIPC connection demo (server side)

```

```

*
* -----
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* -----
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```

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```

* /repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-
gz/demos/connection_demo/server_tipc.c

```

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```

/* -----
*
* server_tipc.c
*
* Short description: TIPC stream demo (server side)
*
* -----
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- *
- * -----
- */

Found in

path(s):

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```
/* -----
*
* client_tipc.c
*
* Short description: TIPC hello world demo (client side)
* -----
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- *
- * -----
- */

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- *
- /repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-gz/demos/hello_world/client_tipc.c

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

```
/* -----
*
* tipc-pipe.c
*
* Short description: TIPC CLI utility, similar to netcat.
*
* -----
*
* Written by Constantine Shulyupin const@makelinux.com for Compass EOS
*
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*
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 *
 * -----
 */

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/* -----
 *
 * client_tipc.c
 *
 * Short description: TIPC benchmark demo (client side)
 *
 * -----
 *
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- *
- * -----
- */

Found

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```
/*
 * include/uapi/linux/tipc.h: Header for TIPC socket interface
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- */

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```
/* -----
*
* tipcc.c
*
* Short description: TIPC C binding API
*
* -----
*
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* Version 0.9: Jon Maloy, 2015

*

* -----

*/

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*

/repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-gz/multicast_blast/tipcc.c

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/* -----

*

* tipc_c_api_client.c

*

* Short description:

* -----

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*/

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/* -----

*

* tipc_ts.h

*

* Short description: Portable TIPC Test Suite -- common declarations

*

* -----

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```
* -----
*/
```

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```
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* server_tipc.c
*
* Short description: TIPC hello world demo (server side)
* -----
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/* -----

Name: inventory_sim.c

Short description: TIPC distributed inventory simulation (Linux version)

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DESCRIPTION

This file is a demo program that illustrates how TIPC can be used to support distributed applications. It takes advantage of TIPC's socket-based messaging, as well as its port naming and port name subscription capabilities.

The demo is a simulation

of a store that stocks a variety of numbered items which are sold to customers upon request. By default, items and customers are created randomly (although there are limits on the number of each that can be present in the store at any given time). From time to time new items are delivered to the store; independently of this, customers enter the store, each looking for a specific item. If a desired item can be obtained before a customer gets tired of waiting for it, a sale is recorded; otherwise, a walk-out is recorded. If multiple customers attempt to obtain the same item, only one

succeeds; the others are notified of their failure and try again.

Each item and customer is implemented as a separate task. An item makes itself available by creating a socket whose port name identifies the item number. A customer determines the availability of an item by creating a subscription for the item name and waiting for notification that the item exists; the customer then obtains the item by sending a message to the socket for the item and receiving a successful reply. A logging task is used to record all significant events encountered by the item and customer tasks during the simulation, as well as to display the simulation status and statistics on a periodic basis.

This simulation is most effective when it is run on multiple CPUs at the same time, which has the effect of creating a network of stores sharing a global inventory. Since the port name published by an item is visible throughout the TIPC cluster, customers are able to obtain items from other CPUs if they are not available locally. The more CPUs involved in the simulation, the more items are available and the less likely a customer will be to walk out of a store because the item they desire is unavailable.

When a simulation is terminated the logging task waits for all customers to leave, then creates a janitor task to dispose of the unsold items that remain. TIPC's name subscription capability allows the janitor to distinguish the items belonging to its own store from those in other stores.

The simulation can be temporarily halted to permit inspection of the various tasks used, or to assist in debugging problems. This is achieved by publishing the name of a virtual item (item 0), which instructs the logging task on each CPU to temporarily suspend processing; this causes all customer and item tasks on the CPU to become blocked when they next attempt to log an event. (Note: Pausing the simulation may result in warning messages from customers about non-responsive items; this is normal behavior resulting from the way the pause capability is implemented, and is no cause for concern.)

The demo gives the user control over the number of item and customer tasks used in the simulation, as well as the ability to increase the speed of processing and to control the amount of output generated. By default, a simulation running at normal speed displays all transaction info, while a simulation running at an accelerated rate displays only the periodic summary. The simulation can also be run in a deterministic manner by creating a store having no items or customers, and then generating individual item and customer tasks manually.

Building the demo

The demo is built as a normal TIPC application. The accompanying Makefile builds a "inventory_sim" executable and creates softlinks to a set of aliases (eg. newSim, killSim, ...) that are used to invoke the main executable to do specific operations.

Running the demo

The simulation is run by issuing the following shell commands:

```
newSim [#items [#customers [speed [verbosity]]]]
    - open store
killSim      - close store and clean up
stopSim      - pause simulation of all stores
startSim     - unpause simulation of all stores
newItem [item [count]] - create item (repeat as specified)
newCust [item [count]] - create customer for item (repeat as specified)
helpSim
    - display this menu
```

A missing (or 0) argument value causes the simulation to choose an appropriate default. In certain cases, an argument value that is < 0 can also be used to disable a specific feature of a command.

The output messages generated by the simulation should be self-explanatory.

Examples

- 1) Run default simulation: ./newSim
- 2) Run simulation at 10x normal speed: ./newSim 0 0 10
- 3) Run simulation manually: ./newSim -1 -1 [create empty store]
 ./newItem 3 [create item]
 ./newCust 3 [create customer]
*/

Found in path(s):

* /repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-gz/demos/inventory_sim/inventory_sim.c

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```
/* -----
*
* server_tipc.c
*
* Short description: TIPC subscription demo (server side)
*
* -----
```

```

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*
* -----
*/

```

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```

* /repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-
gz/demos/topology_subscr_demo/server_tipc.c

```

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```

/* -----
*
* tipc_ts_common.c
*
* Short description: Portable TIPC Test Suite -- common client+server routines
*
* -----
*
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```


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- * -----
- */

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```
/* -----
*
* tipc_ts_client_linux.c
*
* Short description: Portable TIPC Test Suite -- client wrapper for Linux
*
* -----
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- *
- * -----
- */

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```
/* -----
*
* client_tipc.c
*
* Short description: TIPC connection demo (client side)
*
* -----
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gz/demos/connection_demo/client_tipc.c

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/* -----

*

* server_tipc.c

*

* Short description: TIPC benchmark demo (server side)

*

* -----

*

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 *
 * -----
 */

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path(s):

* /repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-gz/demos/benchmark/server_tipc.c
 No license file was found, but licenses were detected in source scan.

/* -----
 *
 * client_tipc.c
 *
 * Short description: TIPC subscription demo (client side)
 *
 * -----
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gz/demos/topology_subscr_demo/client_tipc.c

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/* -----

*

* server_tipc.c

*

* Short description: TIPC stream demo (server side)

*

* -----

*

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*
* server_tipc.c
*
* Short description: TIPC multicast demo (server side)
*
* -----
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*/

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```
/* -----
*
* tipcc.h
*
* Short description: TIPC C binding API. The complete TIPC socket API with all
* standard features is available in <linux/tipc.h>
*
* -----
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*
* Version 0.9.5: Jon Maloy, 2016
*
* -----
*/
```

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```
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*
* tipc_ts_adapt.h
*
* Short description: Portable TIPC Test Suite -- wrapper declarations for Linux
*
* -----
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```

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```
/* -----
*
```



```

* tipc_c_api_server.c
*
* Short description:
* -----
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*
* -----
*/

```

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```

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gz/demos/c_api_demo/tipc_c_api_server.c

```

1.194 base-passwd 3.5.29

1.194.1 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/*

Copyright: Copyright 1999-2002 Wichert Akkerman <wichert@deephackmode.org>

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Files: passwd.master, group.master

License: PD

X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and

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Files: doc/*

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+
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+
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Found in path(s):
* /keymaps-1-0-r31-tar-bz2/keymaps-1.0-r31/GPLv2.patch

```

1.200 thread-pool 0.2.5

1.200.1 Available under license :

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1.201 mingetty 1.08

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

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<signature of Ty Coon>, 1 April 1989
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1.202 update-rc-d 0.8

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1.203 tunctl 1.5

1.203.1 Available under license :

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Name: tunctl
Version: 1.5
Release: 1
Summary: Create and remove virtual network interfaces

Group: Applications/System
License: GPL+
URL: <http://tunctl.sourceforge.net/>
Source0: <http://downloads.sourceforge.net/tunctl/tunctl-1.5.tar.gz>
BuildRoot: %{_tmppath}/%{name}-%{version}-%{release}-root-%(%{__id_u} -n)

BuildRequires: docbook-utils

%description

Virtual network interface manipulation tool from User Mode Linux project.

%prep

```

%setup

%build
make

%install
rm -rf $RPM_BUILD_ROOT
make DESTDIR=$RPM_BUILD_ROOT install

%clean
rm -rf $RPM_BUILD_ROOT

%files
%defattr(-,root,root,-)
%{_mandir}/man8/tunctl.8*
%{_sbindir}/tunctl
%doc ChangeLog

%changelog
* Wed Jul 9 2008 Henrik Nordstrom <henrik@henriknordstrom.net> 1.5-1
- Update to version 1.5

* Tue Jul 8 2008 Henrik Nordstrom <henrik@henriknordstrom.net> 1.4-3
- Packaged tunctl as a upstream
  package of it's own

* Tue Mar 25 2008 Lubomir Kandrak <lkandrak@redhat.com> 1.4-2
- Move to sbin (Marek Mahut, #434583)

* Fri Feb 22 2008 Lubomir Kandrak <lkandrak@redhat.com> 1.4-1
- Initial packaging

Found in path(s):
* /tunctl-1-5-1-tar-gz/tunctl-1.5/tunctl.spec
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/* Copyright 2002 Jeff Dike
* Licensed under the GPL
*/

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* /tunctl-1-5-1-tar-gz/tunctl-1.5/tunctl.c

```

1.204 libtraceevent 1.8.2

1.204.1 Available under license :

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libtraceevent(3)

=====

NAME

tep_get_any_field_val, tep_get_common_field_val, tep_get_field_val,
tep_get_field_raw - Get value of a field.

SYNOPSIS

[verse]

--

```
*#include <event-parse.h>*
```

```
*#include <trace-seq.h>*
```

```
int *tep_get_any_field_val*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char  
pass:[*]_name_, struct tep_record pass:[*]_record_, unsigned long long pass:[*]_val_, int _err_);  
int *tep_get_common_field_val*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char  
pass:[*]_name_, struct tep_record pass:[*]_record_, unsigned long long pass:[*]_val_, int _err_);  
int *tep_get_field_val*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char pass:[*]_name_,  
struct tep_record pass:[*]_record_, unsigned long long pass:[*]_val_, int _err_);  
void pass:[*]*tep_get_field_raw*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_,  
const char pass:[*]_name_, struct tep_record pass:[*]_record_, int pass:[*]_len_, int _err_);  
--
```

DESCRIPTION

These functions can be used to find a field and retrieve its value.

The `*tep_get_any_field_val()` function searches in the `_record_` for a field with `_name_`, part of the `_event_`. If the field is found, its value is stored in `_val_`. If there is an error and `_err_` is not zero, then an error string is written into `_s_`.

The `*tep_get_common_field_val()` function does the same as `*tep_get_any_field_val()`, but searches only in the common fields. This works for any event as all events include the common fields.

The `*tep_get_field_val()` function does the same as `*tep_get_any_field_val()`, but searches only in the event specific fields.

The `*tep_get_field_raw()` function searches in the `_record_` for a field with `_name_`, part of the `_event_`. If the field is found, a pointer to where the field exists in the record's raw data is returned. The size of the data is stored

in
len. If there is an error and _err_ is not zero, then an error string is
written into _s_.

RETURN VALUE

The *tep_get_any_field_val()*, *tep_get_common_field_val()* and
tep_get_field_val() functions return 0 on success, or -1 in case of an error.

The *tep_get_field_raw()* function returns a pointer to field's raw data, and
places the length of this data in _len_. In case of an error NULL is returned.

EXAMPLE

```
[source,c]
--
#include <event-parse.h>
#include <trace-seq.h>
...
struct tep_handle *tep = tep_alloc();
...
struct tep_event *event = tep_find_event_by_name(tep, "kvm", "kvm_exit");
...
void process_record(struct tep_record *record)
{
    int len;
    char *comm;
    struct tep_event *event;
    unsigned long long val;

    event = tep_find_event_by_record(tep, record);
    if (event != NULL) {
        if (tep_get_common_field_val(NULL, event, "common_type",
            record, &val, 0) == 0) {
            /* Got the value of common type field */
        }
        if (tep_get_field_val(NULL, event,
            "pid", record, &val, 0) == 0) {
            /* Got the value of pid specific field */
        }
        comm = tep_get_field_raw(NULL, event, "comm", record, &len, 0);
        if (comm != NULL) {
            /* Got a pointer to the comm event specific field */
        }
    }
}
--
```

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

trace-seq.h

Header file to include in order to have access to trace sequences related APIs. Trace sequences are used to allow a function to call several other functions to create a string of data to use.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

***libtraceevent*(3)**, ***trace-cmd*(1)**

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of ***libtraceevent***.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

--

REPORTING BUGS

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RESOURCES

<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

Found in path(s):

*** /libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-field_get_val.txt**

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

libtraceevent(3)

=====

NAME

tep_set_loglevel - Set log level of the library

SYNOPSIS

```
-----  
[verse]  
--  
*#include <event-parse.h>  
  
enum *tep_loglevel* {  
    TEP_LOG_NONE = 0,  
    TEP_LOG_CRITICAL,  
    TEP_LOG_ERROR,  
    TEP_LOG_WARNING,  
    TEP_LOG_INFO,  
    TEP_LOG_DEBUG,  
    TEP_LOG_ALL  
};  
  
int *tep_set_loglevel*(enum tep_loglevel _level_);  
  
--
```

DESCRIPTION

The `*tep_set_loglevel()` function sets the level of the library logs that will be printed on the console. Library log levels are:

```
[verse]  
--  
_TEP_LOG_NONE_ - Do not print any logs.  
_TEP_LOG_CRITICAL_ - Print critical logs, problem that may cause a crash.  
_TEP_LOG_ERROR_ - Print error logs, problem that could break the main logic of an API.  
_TEP_LOG_WARNING_ - Print warnings, problem that could limit the result of an API.  
_TEP_LOG_INFO_ - Print information about normal execution of an API.  
_TEP_LOG_DEBUG_ - Print debug information.  
_TEP_LOG_ALL_  
- Print logs from all levels.  
  
--
```

Setting the log level to specific value means that logs from the previous levels will be printed too. For example `_TEP_LOG_WARNING_` will print any logs with severity `_TEP_LOG_WARNING_`, `_TEP_LOG_ERROR_` and `_TEP_LOG_CRITICAL_`. The default log level is `_TEP_LOG_CRITICAL_`.

EXAMPLE

```
-----  
[source,c]  
--  
#include <event-parse.h>  
  
tep_set_loglevel(TEP_LOG_ALL);  
...  
--
```

/* call libtraceevent APIs and observe any logs they produce */

...

tep_set_loglevel(TEP_LOG_CRITICAL);

--

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

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<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

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* /libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-log.txt

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libtraceevent(3)

=====

NAME

kbuffer_timestamp, kbuffer_subbuf_timestamp -
Functions that read various data of a kbuffer descriptor

SYNOPSIS

```
-----  
[verse]  
--  
*#include <kbuffer.h>*
```

```
unsigned long long *kbuffer_timestamp*(struct kbuffer pass:[*]_kbuf_);  
unsigned long long *kbuffer_subbuf_timestamp*(struct kbuffer pass:[*]_kbuf_, void pass:[*]_subbuf_);  
--
```

DESCRIPTION

The function `*kbuffer_timestamp()` returns the timestamp of the current event of `_kbuf_`.

The function `*kbuffer_subbuf_timestamp()` returns the timestamp for the sub-buffer that was loaded in `_kbuf_`. This usually is (but not guaranteed to be) the timestamp of the first event on the sub-buffer.

The function `*kbuffer_start_of_data()` returns the offset of where the delta

RETURN VALUE

`*kbuffer_read_event()` returns the event that the `_kbuf_` descriptor is currently at, or NULL if the last event was passed (by `*kbuffer_next_event()`).

`*kbuffer_next_event()`
returns the next event after the current event or NULL if there are no more events.

`*kbuffer_read_at_offset()` returns the event at a given `_offset_` from the start of the sub-buffer stored in `_kbuf_`, or NULL if there exists no event. Note, `_offset_` only needs to be an offset that lands on the record, or is at the start of it. It does not need to be exactly at the beginning of the record.

`*kbuffer_missed_events()` returns 0 if there were no missed events before loaded sub-buffer. Returns -1 if there were an unknown number of missed events, or if the number of missed events is known, that number will be returned.

`*kbuffer_event_size()` returns the size of the data payload of the current event of `_kbuf_`.

`*kbuffer_curr_size()` returns the size of the entire record of the current event of `_kbuf_`. This includes the size of the meta data for that record.

`*kbuf_curr_offset()` returns the offset of the current record from the beginning of the

`_kbuf_`
sub-buffer.

`*kbuf_curr_index()` returns the index of the current record from the beginning of the `_kbuf_` data section.

EXAMPLE

```
-----
[source,c]
--
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
#include <unistd.h>
#include <sys/stat.h>

#include <kbuffer.h>

int main (int argc, char **argv)
{
    unsigned long long ts;
    struct kbuffer *kbuf;
    struct stat st;
    char *buf;
    void *event;
    int save_offset = -1;
    int record_size;
    int offset;
    int index;
    int size;
    int ret;
    int fd;
    int i = 0;

    if (argc < 2) {
        printf("usage: %s raw-subbuffer-page\n", argv[0]);
        printf(" Try: dd count=1 bs=4096 if=/sys/kernel/tracing/per_cpu/cpu0/trace_pipe_raw of=/tmp/file\n");
        exit(0);
    }

    if (stat(argv[1], &st) < 0) {
        perror("stat");
        exit(-1);
    }

    buf = malloc(st.st_size);
    if (!buf) {
        perror("Allocating buffer");
```

```

    exit(-1);
}

fd = open(argv[1], O_RDONLY);
if (fd < 0) {
    perror(argv[1]);
    exit(-1);
}

ret = read(fd, buf, st.st_size);
if (ret < 0) {
    perror("Reading
buffer");
    exit(-1);
}
close(fd);

kbuf = kbuffer_alloc(KBUFFER_ENDIAN_SAME_AS_HOST,
    KBUFFER_LSIZE_SAME_AS_HOST);
if (!kbuf) {
    perror("Creating kbuffer");
    exit(-1);
}
ret = kbuffer_load_subbuffer(kbuf, buf);
if (ret < 0) {
    perror("Loading sub bufer");
    exit(-1);
}

if (kbuffer_subbuffer_size(kbuf) > st.st_size) {
    fprintf(stderr, "kbuffer is bigger than raw size %d > %ld\n",
        kbuffer_subbuffer_size(kbuf), st.st_size);
    exit(-1);
}

ret = kbuffer_missed_events(kbuf);
if (ret) {
    if (ret > 0)
        printf("Missed %d events before this buffer\n", ret);
    else
        printf("Missed unknown number of events before this buffer\n");
}
do {
    event = kbuffer_read_event(kbuf, &ts);
    if (event) {
        record_size = kbuffer_curr_size(kbuf);
        offset = kbuffer_curr_offset(kbuf);
        index = kbuffer_curr_index(kbuf);
    }
} while (event);

```

```

size = kbuffer_event_size(kbuf);

if (i == 20)
    save_offset = offset;
printf(" event %3d ts:%lld\trecord_size:%d size:%d\tindex:%d offset:%d\n",

        i++, ts, record_size, size, index, offset);
event = kbuffer_next_event(kbuf, NULL);
}
} while (event);

if (!event)
    printf("Finished sub buffer\n");

if (save_offset > 0) {
    event = kbuffer_read_at_offset(kbuf, save_offset, &ts);
    if (!event) {
        fprintf(stderr, "Funny, can't find event 20 at offset %d\n", save_offset);
        exit(-1);
    }
    record_size = kbuffer_curr_size(kbuf);
    offset = kbuffer_curr_offset(kbuf);
    index = kbuffer_curr_index(kbuf);
    size = kbuffer_event_size(kbuf);

    printf("\n saved event 20 ts:%lld\trecord_size:%d size:%d\tindex:%d offset:%d\n\n",
        ts, record_size, size, index, offset);
}
kbuffer_free(kbuf);

return 0;
}

```

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

***libtraceevent*(3), *trace-cmd*(1)**

AUTHOR

```

-----
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>,
author of *libtraceevent*.
--
REPORTING BUGS
-----
Report bugs to <linux-trace-devel@vger.kernel.org>

LICENSE
-----
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RESOURCES
-----
https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

Found in path(s):
* /libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-kbuffer-timestamp.txt
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libtraceevent(3)
=====

NAME
----
tep_list_events, tep_list_events_copy -
Get list of events, sorted by given criteria.

SYNOPSIS
-----
[verse]
--
#include <event-parse.h>

enum *tep_event_sort_type* {
    _TEP_EVENT_SORT_ID_,
    _TEP_EVENT_SORT_NAME_,
    _TEP_EVENT_SORT_SYSTEM_,
};

struct tep_event pass:[*]pass:[*]*tep_list_events*(struct tep_handle pass:[*]_tep_, enum tep_event_sort_type
_sort_type_);
struct tep_event pass:[*]pass:[*]*tep_list_events_copy*(struct tep_handle pass:[*]_tep_, enum tep_event_sort_type
_sort_type_);
--

```

DESCRIPTION

The `*tep_list_events()` function returns an array of pointers to the events, sorted by the `_sort_type_` criteria. The last element of the array is NULL. The returned memory must not be freed, it is managed by the library. The function is not thread safe. The `_tep_` argument is trace event parser context. The `_sort_type_` argument is the required sort criteria:

[verse]

--

`_TEP_EVENT_SORT_ID_` -

sort by the event ID.

`_TEP_EVENT_SORT_NAME_` - sort by the event (name, system, id) triplet.

`_TEP_EVENT_SORT_SYSTEM_` - sort by the event (system, name, id) triplet.

--

The `*tep_list_events_copy()` is a thread safe version of `_tep_list_events()`. It has the same behavior, but the returned array is allocated internally and must be freed by the caller. Note that the content of the array must not be freed (see the EXAMPLE below).

RETURN VALUE

The `*tep_list_events()` function returns an array of pointers to events. In case of an error, NULL is returned. The returned array must not be freed, it is managed by the library.

The `*tep_list_events_copy()` function returns an array of pointers to events. In case of an error, NULL is returned. The returned array must be freed by the caller.

EXAMPLE

[source,c]

--

```
#include <event-parse.h>
```

...

```
struct tep_handle *tep = tep_alloc();
```

...

```
int i;
```

```
struct tep_event_format **events;
```

```
i=0;
```

```
events =
```

```
    tep_list_events(tep, TEP_EVENT_SORT_ID);
```

```
if (events == NULL) {
```

```
    /* Failed to get the events, sorted by ID */
```

```
} else {
```

```
    while(events[i]) {
```



```

/* walk through the list of the events, sorted by ID */
i++;
}
}

i=0;
events = tep_list_events_copy(tep, TEP_EVENT_SORT_NAME);
if (events == NULL) {
/* Failed to get the events, sorted by name */
} else {
while(events[i]) {
/* walk through the list of the events, sorted by name */
i++;
}
free(events);
}

```

...
--

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

***libtraceevent*(3), *trace-cmd*(1)**

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of ***libtraceevent***.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

--

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LICENSE

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RESOURCES

<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

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* /libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-event_list.txt

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libtraceevent(3)

=====

NAME

tep_register_comm, tep_override_comm, tep_is_pid_registered,
tep_data_comm_from_pid, tep_data_pid_from_comm, tep_cmdline_pid -
Manage pid to process name mappings.

SYNOPSIS

[verse]

--

```
*#include <event-parse.h>*
```

```
int *tep_register_comm*(struct tep_handle pass:[*]_tep_, const char pass:[*]_comm_, int _pid_);  
int *tep_override_comm*(struct tep_handle pass:[*]_tep_, const char pass:[*]_comm_, int _pid_);  
bool *tep_is_pid_registered*(struct tep_handle pass:[*]_tep_, int _pid_);  
const char pass:[*]*tep_data_comm_from_pid*(struct tep_handle pass:[*]_pevent_, int _pid_);  
struct cmdline pass:[*]*tep_data_pid_from_comm*(struct tep_handle pass:[*]_pevent_, const char pass:[*]_comm_,  
struct cmdline pass:[*]_next_);  
int *tep_cmdline_pid*(struct tep_handle pass:[*]_pevent_, struct cmdline pass:[*]_cmdline_);  
--
```

DESCRIPTION

These functions can be used to handle the
mapping between pid and process name.

The library builds a cache of these mappings, which is used to display the name
of the process, instead of its pid. This information can be retrieved from
tracefs/saved_cmdlines file.

The `*tep_register_comm()*` function registers a `_pid_ / process name` mapping.

If a command with the same `_pid_` is already registered, an error is returned.

The `_pid_` argument is the process ID, the `_comm_` argument is the process name,
`_tep_` is the event context. The `_comm_` is duplicated internally.

The `*tep_override_comm()*` function registers a `_pid_ / process name` mapping.

If a process with the same pid is already registered, the process name string is updated with the new one. The `_pid_` argument is the process ID, the `_comm_` argument is the process name, `_tep_` is the event context. The `_comm_` is duplicated internally.

The `*tep_is_pid_registered()` function checks if a pid has a process name mapping registered. The `_pid_` argument is the process ID, `_tep_` is the event context.

The

`*tep_data_comm_from_pid()` function returns the process name for a given pid. The `_pid_` argument is the process ID, `_tep_` is the event context. The returned string should not be freed, but will be freed when the `_tep_` handler is closed.

The `*tep_data_pid_from_comm()` function returns a pid for a given process name. The `_comm_` argument is the process name, `_tep_` is the event context. The argument `_next_` is the cmdline structure to search for the next pid. As there may be more than one pid for a given process, the result of this call can be passed back into a recurring call in the `_next_` parameter, to search for the next pid. If `_next_` is NULL, it will return the first pid associated with the `_comm_`. The function performs a linear search, so it may be slow.

The `*tep_cmdline_pid()` function returns the pid associated with a given `_cmdline_`. The `_tep_` argument is the event context.

RETURN VALUE

`*tep_register_comm()` function returns 0 on success. In case of an error -1 is returned and `errno` is set to indicate the cause of the problem: ENOMEM, if there is not enough memory to duplicate the `_comm_` or EEXIST if a mapping for this `_pid_` is already registered.

`*tep_override_comm()` function returns 0 on success. In case of an error -1 is returned and `errno` is set to indicate the cause of the problem: ENOMEM, if there is not enough memory to duplicate the `_comm_`.

`*tep_is_pid_registered()` function returns true if the `_pid_` has a process name mapped to it, false otherwise.

`*tep_data_comm_from_pid()` function returns the process name as string, or the string "<...>" if there is no mapping for the given pid.

`*tep_data_pid_from_comm()` function returns a pointer to a struct `cmdline`, that holds a pid for a given process, or NULL if none is found. This result can be passed back into a recurring call as the `_next_` parameter of the function.

tep_cmdline_pid() functions returns the pid for the give cmdline. If _cmdline_ is NULL, then -1 is returned.

EXAMPLE

The

following example registers pid for command "ls", in context of event _tep_ and performs various searches for pid / process name mappings:

[source,c]

--

```
#include <event-parse.h>
```

...

```
int ret;
```

```
int ls_pid = 1021;
```

```
struct tep_handle *tep = tep_alloc();
```

...

```
ret = tep_register_comm(tep, "ls", ls_pid);
```

```
if (ret != 0 && errno == EEXIST)
```

```
    ret = tep_override_comm(tep, "ls", ls_pid);
```

```
if (ret != 0) {
```

```
    /* Failed to register pid / command mapping */
```

```
}
```

...

```
if (tep_is_pid_registered(tep, ls_pid) == 0) {
```

```
    /* Command mapping for ls_pid is not registered */
```

```
}
```

...

```
const char *comm = tep_data_comm_from_pid(tep, ls_pid);
```

```
if (comm) {
```

```
    /* Found process name for ls_pid */
```

```
}
```

...

```
int pid;
```

```
struct cmdline *cmd = tep_data_pid_from_comm(tep, "ls", NULL);
```

```
while (cmd) {
```

```
    pid = tep_cmdline_pid(tep, cmd);
```

```
    /* Found pid for process "ls" */
```

```
    cmd = tep_data_pid_from_comm(tep, "ls", cmd);
```

```
}
```

--

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

--

REPORTING BUGS

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LICENSE

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RESOURCES

<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

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* /libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-commands.txt

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libtraceevent(3)

=====

NAME

tep_alloc, tep_free, tep_ref, tep_unref, tep_get_ref, tep_kbuffer - Create, destroy, manage references of trace event parser context.

SYNOPSIS

[verse]

--

#include <event-parse.h>

struct tep_handle pass:[*]*tep_alloc*(void);

void *tep_free*(struct tep_handle pass:[*]_tep_);

void *tep_ref*(struct tep_handle pass:[*]_tep_);

void *tep_unref*(struct tep_handle pass:[*]_tep_);

```
int *tep_get_ref*(struct tep_handle pass:[*]_tep_);
struct kbuffer pass:[*]*tep_kbuffer*(struct tep_handle pass:[*]_tep_);
--
```

DESCRIPTION

These are the main functions to create and destroy `tep_handle` - the main structure, representing the trace event parser context. This context is used as the input parameter of most library APIs.

The `*tep_alloc()` function allocates and initializes the `tep` context.

The `*tep_free()` function will decrement the reference of the `_tep_` handler.

When

there is no more references, then it will free the handler, as well as clean up all its resources that it had used. The argument `_tep_` is the pointer to the trace event parser context.

The `*tep_ref()` function adds a reference to the `_tep_` handler.

The `*tep_unref()` function removes a reference from the `_tep_` handler. When the last reference is removed, the `_tep_` is destroyed, and all resources that it had used are cleaned up.

The `*tep_ref_get()` functions gets the current references of the `_tep_` handler.

The `*tep_kbuffer()` function allocates a `kbuffer` descriptor that can be used to parse raw data that is represented by the `_tep_` handle descriptor. It must be freed with `*kbuf_free(3)`.

RETURN VALUE

`*tep_alloc()` returns a pointer to a newly created `tep_handle` structure. NULL is returned in case there is not enough free memory to allocate it.

`*tep_ref_get()` returns the current references of `_tep_`. If `_tep_` is NULL, 0 is returned.

`*tep_kbuffer()` returns a `kbuffer` descriptor that can parse the raw data that represents the `tep` handle. Must be freed with `*kbuf_free(3)`.

EXAMPLE

[source,c]

--

```
#include <event-parse.h>
```

```

...
struct tep_handle *tep = tep_alloc();
...
int ref = tep_get_ref(tep);
tep_ref(tep);
if ( (ref+1) != tep_get_ref(tep)) {
    /* Something wrong happened, the counter is not incremented by 1 */
}
tep_unref(tep);
...
tep_free(tep);
...

```

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

**libtraceevent*(3)*, **trace-cmd*(1)*

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of **libtraceevent**.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

--

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RESOURCES

<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

Found

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* /libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-handle.txt

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libtraceevent(3)

=====

NAME

kbuffer_alloc, kbuffer_dup, kbuffer_free, kbuffer_load_subbuffer, kbuffer_subbuffer, kbuffer_refresh, kbuffer_subbuffer_size, kbuffer_start_of_data - Creating of kbuffer element to parse the Linux kernel tracing ring buffer

SYNOPSIS

[verse]

--

```
*/#include <kbuffer.h>*
```

```
enum kbuffer_endian {
    KBUFFER_ENDIAN_BIG,
    KBUFFER_ENDIAN_LITTLE,
    KBUFFER_ENDIAN_SAME_AS_HOST,
};
```

```
enum kbuffer_long_size {
    KBUFFER_LSIZE_4,
    KBUFFER_LSIZE_8,
    KBUFFER_LSIZE_SAME_AS_HOST,
};
```

```
struct kbuffer;
struct tep_handle;
```

```
struct kbuffer pass:[*]kbuffer_alloc*(enum kbuffer_long_size _size_, enum kbuffer_endian _endian_);
struct kbuffer pass:[*]kbuffer_dup*(struct kbuffer pass:[*]_kbuf_);
void *kbuffer_free*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_load_subbuffer*(struct kbuffer pass:[*]_kbuf_, void pass:[*]_subbuffer_);
int *kbuffer_subbuffer_size*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_refresh*(struct
    kbuffer pass:[*]_kbuf_);
int *kbuffer_start_of_data*(struct kbuffer pass:[*]_kbuf_);
void pass:[*]kbuffer_subbuffer*(struct kbuffer pass:[*]_kbuf_);
--
```

DESCRIPTION

These functions create a _kbuffer_ handle that can be used to parse the raw sub buffers

of the Linux kernel tracing ring buffer. The ring buffer is found in the tracefs directory, and can be retrieved by `*tracefs_instance_get_file(3)*` at `*per_cpu/cpuX/trace_pipe_raw*` where `*X*` is replaced by the per CPU number of the specified ring buffer. The ring buffer inside the kernel is split up per CPU, such that the raw ring buffer must be retrieved per CPU as well.

The `*kbuffer_alloc()*` will create a descriptor that can be used to manage a sub buffer read by the ring buffer. The `_size_` parameter denotes what the word size is for the given buffer (note, this works from reading raw data from machines other than the machine that is calling this function). The `_endian_` denotes the endian for the machine.

If

`_endian_` is set to `_KBUFFER_ENDIAN_SAME_AS_HOST_` the endian will be set to the same as the host endianness, which is useful when the application is reading the ring buffer data directly from the same machine it is running on.

If `_size_` is set to `_KBUFFER_LSIZE_SAME_AS_HOST_`, if the word size is 8, it will set the kbuffer descriptor to long size of 8. But if the size is 4, then it will then perform a `*uname(2)*` call, and if the `_machine_` field has the string "64" in it, it will be set to 8 byte long size and not 4 byte. This is because the ring buffer long size is dependent on the kernel and not user space.

The `*kbuffer_dup()*` function will duplicate an existing kbuffer structure with an allocated new one. It will have all the properties of the passed in `_kbuf_`, including pointing to the same subbuffer that was loaded in the `_kbuf_`. It must be freed with `*kbuffer_free()*`.

The `*kbuffer_free()*` function will free the resources created by `*kbuffer_alloc()*`.

The `*kbuffer_load_subbuffer()*` will take a `_subbuffer_` which is a raw data blob from the tracefs `*trace_pipe_raw*` file. The Linux tracing ring buffer is broken up into sub buffers. Each sub buffer is a stand alone data segment that has all the information to split out the individual events and time stamps. This sub buffer is what kbuffer uses to walk the events.

The `*kbuffer_subbuffer_size()*` returns the location of the end of the last event on the sub-buffer. It does not return the size of the sub-buffer itself.

The `*kbuffer_refresh()*` is to be used if more writes were done on the loaded kbuffer where the size of the kbuffer needs to be refreshed to be able to read the new events that were written since the last `*kbuffer_load_subbuffer()*` was called on it.

Note, no memory barriers are implemented with this function and any synchronization with the writer is the responsibility of the application.

The `*kbuffer_start_of_data()*` function returns the offset of where the actual

data load of the sub-buffer
begins.

The `*kbuffer_subbuffer()` function returns the pointer to the currently loaded subbuffer. That is, the last subbuffer that was loaded by `*kbuffer_load_subbuffer()`. If no subbuffer was loaded NULL is returned.

RETURN VALUE

`*kbuffer_alloc()` returns an allocated kbuffer descriptor or NULL on error.
The returned descriptor must be freed with `*kbuffer_free()`

`*kbuffer_load_subbuffer()` returns 0 on success and -1 on error.

`*kbuffer_subbuffer_size()` returns the index on the subbuffer where the end of the last event is located.

`*kbuffer_start_of_data()` returns the offset of where the data begins on the sub-buffer loaded in `_kbuf_`.

`*kbuffer_subbuffer()` returns the last loaded subbuffer to `_kbuf_` that was loaded by `*kbuffer_load_subbuffer()` or NULL if none was loaded.

`*kbuffer_refresh()` returns 0 on success and -1 if `_kbuf_` is NULL or it does not have a subbuffer loaded via `*kbuffer_load_subbuffer()`.

EXAMPLE

[source,c]

--

```
#include <stdio.h>
#include
<stdlib.h>
#include <fcntl.h>
#include <unistd.h>
#include <sys/stat.h>

#include <kbuffer.h>
```

```
int main (int argc, char **argv)
{
    unsigned long long ts;
    struct kbuffer *kbuf;
    struct stat st;
    char *buf;
    void *event;
    int ret;
    int fd;
```

```

int i = 0;

if (argc < 2) {
    printf("usage: %s raw-subbuffer-page\n", argv[0]);
    printf(" Try: dd count=1 bs=4096 if=/sys/kernel/tracing/per_cpu/cpu0/trace_pipe_raw of=/tmp/file\n");
    exit(0);
}

if (stat(argv[1], &st) < 0) {
    perror("stat");
    exit(-1);
}

buf = malloc(st.st_size);
if (!buf) {
    perror("Allocating buffer");
    exit(-1);
}

fd = open(argv[1], O_RDONLY);
if (fd < 0) {
    perror(argv[1]);
    exit(-1);
}

ret = read(fd, buf, st.st_size);
if (ret < 0) {
    perror("Reading buffer");
    exit(-1);
}
close(fd);

kbuf = kbuffer_alloc(KBUFFER_ENDIAN_SAME_AS_HOST,
    KBUFFER_LSIZE_SAME_AS_HOST);
if (!kbuf) {
    perror("Creating kbuffer");
    exit(-1);
}
ret = kbuffer_load_subbuffer(kbuf, buf);
if (ret < 0) {
    perror("Loading
sub bufer");
    exit(-1);
}

if (kbuffer_subbuffer_size(kbuf) > st.st_size) {
    fprintf(stderr, "kbuffer is bigger than raw size %d > %ld\n",
        kbuffer_subbuffer_size(kbuf), st.st_size);
}

```

```

    exit(-1);
}

printf("Kbuffer data starts at %d\n", kbuffer_start_of_data(kbuf));
do {
    event = kbuffer_read_event(kbuf, &ts);
    if (event) {
        printf(" event %3d ts:%lld\n", i++, ts);
        event = kbuffer_next_event(kbuf, NULL);
    }
} while (event);

if (!event)
    printf("Finished sub buffer\n");

kbuffer_free(kbuf);

return 0;
}

```

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

***libtraceevent*(3), *trace-cmd*(1)**

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of ***libtraceevent***.

--

REPORTING BUGS

Report bugs to <linux-trace-devel@vger.kernel.org>

LICENSE

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RESOURCES

<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

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* /libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-kbuffer-create.txt

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libtraceevent(3)

=====

NAME

tep_plugin_kvm_get_func, tep_plugin_kvm_put_func - Add function name for instruction pointer of kvm plugin

SYNOPSIS

[verse]

--

```
*#include <event-parse.h>*
```

```
const char pass:[*]*tep_plugin_kvm_get_func*(struct tep_event pass:[*]event,  
        struct tep_record pass:[*]record,  
        unsigned long long pass:[*]paddr);  
void *tep_plugin_kvm_put_func*(const char pass:[*]func);
```

--

DESCRIPTION

The functions `*tep_plugin_kvm_get_func()` and `*tep_plugin_kvm_put_func()` are not to be called by an application, but instead are to be defined by an application.

Certain events (like `kvm_exit` and `kvm_entry`) have the instruction pointer of where in the guest the context changed from guest to host. As the host only knows the instruction pointer and does not have information about what function in the guest that instruction pointer belongs to, it can only print the address.

But

the application may have more information about the guest, and know where the guest was when the exit occurred, and also even know the function name of that address.

The KVM plugin for libtraceevent is called on these events, and then calls `*tep_plugin_kvm_get_func()` to see if that function can resolve the instruction

pointer address to a real function name. If the return is non NULL, it will print the function in the output for that event.

These functions are currently defined as weak functions within the plugin, as to not require them to be defined elsewhere. For an application to override the weak function, it will need to define the function in a file that gets compiled with `*-rdynamic*`. That will tell the dynamic linker to examine that object file and use function names to resolve weak functions in other shared objects (in this case the KVM plugin shared object).

If the application defines `*tep_plugin_kvm_get_func()*`, it must use the above prototype. The `_event_` will hold the KVM event that has the instruction pointer field. The `_record_` will be the instance of that event. The application's function does not need to use these parameters, but they may be useful for finding the function name for the address. The `_paddr_` is a pointer to a 64 bit value (where only 32 bits may be used on 32 bit machines). This value is the instruction pointer to look up. If the application knows the start address of the function as well, it can set `_paddr_` to that address, and the KVM plugin will also append a "+offset" to the function name where the offset is the original value in `_paddr_` minus the value in `_paddr_` when it is called. Finally, the application should return the function name as a nul terminated string if one is found.

If the returned string of `*tep_plugin_kvm_get_func()*` was allocated, the KVM plugin will call `*tep_plugin_kvm_put_func()*` when it is through with it, passing the value returned by `*tep_plugin_kvm_get_func()*` as `_func_`. This allows the application to free it if necessary.

RETURN VALUE

The `*tep_plugin_kvm_get_func()*` is not to be called by the application but instead is to be defined by the application. It should return a nul terminated string representing the function for the given instruction pointer passed to it by reference in `_paddr_`. It can then optionally update the `_paddr_` to a value that holds the start of the function. The string returned may be freed by the `*tep_plugin_kvm_put_func()*` that the application should define to clean up the string.

The below example needs to be compiled with the `*-rdynamic*` flag so that the dynamic linker can resolve the `*tep_plugin_kvm_get_func()*` and `*tep_plugin_kvm_put_func()*` functions.

When run against a trace.dat file produced by `*trace-cmd(1)*` recording the `kvm_exit` and `kvm_entry` events on a guest, and then the guest's `/proc/kallsyms` file is passed as the second parameter, the output produced will look something like:

[source,c]

--

CPU 0/KVM-20407 83156.177626

[000] kvm_exit reason APIC_ACCESS rip 0xffffffffb0056ee2 exit native_apic_mem_write+0x2 info 10b0 0

CPU 0/KVM-20407 83156.177632 [000] kvm_entry vcpu 0 rip 0xffffffffb0056ee8 enter
native_apic_mem_write+0x8

--

But without those callbacks, it would look like:

[source,c]

--

CPU 0/KVM-20407 83156.177626 [000] kvm_exit reason APIC_ACCESS rip 0xffffffffb0056ee2 info 10b0 0

CPU 0/KVM-20407 83156.177632 [000] kvm_entry vcpu 0 rip 0xffffffffb0056ee8

--

EXAMPLE

[source,c]

--

#include <stdio.h>

#include <stdlib.h>

#include <event-parse.h>

#include <trace-cmd.h>

#include <sys/stat.h>

static struct tep_handle *tep;

const char *tep_plugin_kvm_get_func(struct tep_event *event, struct tep_record *record,
unsigned long long *paddr)

{

const char *func;

char *event_func;

char *ename;

func = tep_find_function(tep, *paddr);

if (!func)

return NULL;

if (strcmp(event->name, "kvm_exit") == 0)

ename = "exit";

else

ename = "enter";

/*

* Normally, passing

back func directly is sufficient and then

* tep_plugin_kvm_put_func() would not be required. But this example

* is showing how to handle allocation of the returned string.

*/

```

event_func = malloc(strlen(ename) + strlen(func) + 2);
if (!event_func)
    return NULL;
sprintf(event_func, "%s %s", ename, func);

*paddr = tep_find_function_address(tep, *paddr);

return event_func;
}

void tep_plugin_kvm_put_func(const char *func)
{
    char *f = (char *)func;

    free(f);
}

static int show_event(struct tracecmd_input *handle, struct tep_event *event,
                     struct tep_record *record, int cpu, void *data)
{
    static struct trace_seq seq;
    tep = data;

    if (!seq.buffer)
        trace_seq_init(&seq);

    trace_seq_reset(&seq);
    tep_print_event(tracecmd_get_tep(handle), &seq, record,
        "%s-%d\t%6.1000d [%03d] %s\t%s\n",
        TEP_PRINT_COMM, TEP_PRINT_PID,
        TEP_PRINT_TIME, TEP_PRINT_CPU,
        TEP_PRINT_NAME, TEP_PRINT_INFO);
    trace_seq_terminate(&seq);
    trace_seq_do_printf(&seq);
    return 0;
}

int main(int
    argc, char **argv)
{
    struct tracecmd_input *handle;
    struct tep_handle *guest_tep;
    struct stat st;
    FILE *fp;
    char *buf;

    if (argc < 3) {
        printf("usage: trace.dat guest_kallsyms_file\n");
    }

```



```

    exit(-1);
}

handle = tracecmd_open(argv[1], 0);
if (!handle) {
    perror(argv[1]);
    exit(-1);
}

/* Just for kallsyms parsing */
guest_tep = tep_alloc();
if (!guest_tep)
    exit(-1);

if (stat(argv[2], &st) < 0) {
    perror(argv[2]);
    exit(-1);
}

buf = malloc(st.st_size + 1);
if (!buf)
    exit(-1);

fp = fopen(argv[2], "r");
if (!fp) {
    perror(argv[2]);
    exit(-1);
}

if (fread(buf, st.st_size, 1, fp) < 0) {
    perror(argv[2]);
    exit(-1);
}

buf[st.st_size] = '\0';

if (tep_parse_kallsyms(guest_tep, buf) < 0) {
    printf("Failed to parse %s\n", argv[2]);
    exit(-1);
}
free(buf);

tracecmd_follow_event(handle, "kvm", "kvm_exit", show_event, guest_tep);
tracecmd_follow_event(handle, "kvm", "kvm_entry", show_event, guest_tep);

tracecmd_iterate_events(handle, NULL, 0,
    NULL, NULL);

```

```

tep_free(guest_tep);
tracecmd_close(handle);
}
--

```

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

***libtraceevent*(3), *trace-cmd*(1)**

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LICENSE

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RESOURCES

<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

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* /libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-kvm-plugin.txt

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libtraceevent(3)

=====

NAME

tep_find_event, tep_find_event_by_name, tep_find_event_by_record, tep_record_is_event -

Find events by given key.

SYNOPSIS

[verse]

--

#include <event-parse.h>

```

struct tep_event pass:[*]*tep_find_event*(struct tep_handle pass:[*]_tep_, int _id_);
struct tep_event pass:[*]*tep_find_event_by_name*(struct tep_handle pass:[*]_tep_, const char pass:[*]_sys_, const
char pass:[*]_name_);
struct tep_event pass:[*]*tep_find_event_by_record*(struct tep_handle pass:[*]_tep_, struct tep_record
pass:[*]_record_);
bool *tep_record_is_event*(struct tep_record pass:[*]_record_, struct tep_event pass:[*]_event);
--

```

DESCRIPTION

This set of functions can be used to search for an event, based on a given criteria. All functions require a pointer to a `_tep_`, trace event parser context.

The `*tep_find_event()` function searches for an event by given event `_id_`. The event ID is assigned dynamically and can be viewed in event's format file, "ID" field.

The `*tep_find_event_by_name()` function searches for an event by given event `_name_`, under the system `_sys_`. If the `_sys_` is NULL (not specified), the first event with `_name_` is returned.

The `*tep_find_event_by_record()` function searches for an event from a given `_record_`.

The `*tep_record_is_event()` function tests if the given `_record_` is of the type of the `_event_`. This is normally used to know if the `_record_` being processed is of an `_event_` where further processing should be done.

RETURN VALUE

All these functions except `*tep_record_is_event()` return a pointer to the found event, or NULL if there is no such event.

EXAMPLE

```

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
struct tep_event *event;

event = tep_find_event(tep, 1857);
if (event == NULL) {

```

```

/* There is no event with ID 1857 */
}

event = tep_find_event_by_name(tep, "kvm", "kvm_exit");
if
(event == NULL) {
/* There is no kvm_exit event, from kvm system */
}

void event_from_record(struct tep_record *record)
{
struct tep_event *event = tep_find_event_by_record(tep, record);
if (event == NULL) {
/* There is no event from given record */
}
}
...
--

```

FILES

```

-----
[verse]
--
*event-parse.h*
Header file to include in order to have access to the library APIs.
*-ltraceevent*
Linker switch to add when building a program that uses the library.
--

```

SEE ALSO

```

-----
*libtraceevent*(3), *trace-cmd*(1)

```

AUTHOR

```

-----
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
--

```

REPORTING BUGS

```

-----
Report bugs to <linux-trace-devel@vger.kernel.org>

```

LICENSE

```

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```

RESOURCES

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libtraceevent(3)

=====

NAME

kbuffer_read_event, kbuffer_next_event, kbuffer_missed_events, kbuffer_event_size, kbuffer_curr_size, kbuffer_curr_offset, kbuffer_curr_index, kbuffer_read_buffer -

Functions to read through the kbuffer sub buffer.

SYNOPSIS

[verse]

--

`*#include <kbuffer.h>*`

```
void pass:[*]kbuffer_read_event*(struct kbuffer pass:[*]_kbuf_, unsigned long long pass:[*]_ts_);
void pass:[*]kbuffer_next_event*(struct kbuffer pass:[*]_kbuf_, unsigned long long pass:[*]_ts_);
void pass:[*]kbuffer_read_at_offset*(struct kbuffer pass:[*]_kbuf_, int _offset_, unsigned long long pass:[*]_ts_);
int *kbuffer_missed_events*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_event_size*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_curr_size*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_curr_offset*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_curr_index*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_read_buffer*(struct
    kbuffer pass:[*]_kbuf_, void pass:[*]_buffer_, int _len_);
--
```

DESCRIPTION

The function `*kbuffer_read_event()` reads the next event in the `_kbuf_` descriptor and if `_ts_` is non NULL, will place its timestamp into it. This does not modify the `_kbuf_` descriptor, and calling this function multiple times will return the same result.

The function `*kbuffer_next_event()` will return the next event in the `_kbuf_` descriptor. It will also set the `_ts_` to the timestamp of the returned event. NULL is returned if there are no more events and `_ts_` will be undefined. Note, if this is called directly after a `*kbuffer_load_subbuffer()` then it will likely give an unexpected result, as it will return the second event and not the first event. Usually this function is only used to move to the next event and to know if there's any more events to read, and `*kbuffer_read_event()` is always called first.

The function `*kbuffer_read_at_offset()` returns the event located at a given `_offset_` from the beginning of the sub-buffer. This offset can be retrieved by `*kbuffer_curr_offset()`. If `_ts_` points to an unsigned long long, then it will be set to the event at the given offset's timestamp.

If the sub-buffer had missed events before it, then `*kbuffer_missed_events()` will return the non zero. If it returns -1, that means there were missed events, but the exact number of missed events is unknown. If it returns a positive number, then the number of missed events is the return value.

The `*kbuffer_event_size()` function returns the size of the data portion of the current event (the one that would be returned by `*kbuffer_read_event()`).

The `*kbuffer_curr_size()` function returns the entire record size of the current event (the one that would be returned by `*kbuffer_read_event()`). The difference here is that the return value includes the size of the event record meta data that is not part of what is returned by `*kbuffer_read_event()`.

The `*kbuffer_curr_offset()` function returns the offset from the beginning of the sub-buffer of where the current event's meta data for the record begins. The first event will not be at offset zero. This offset can be used to retrieve the event with `*kbuffer_read_at_offset()`.

The `*kbuffer_curr_index()` function returns the index from the beginning of the data portion of the sub-buffer where the current event's meta data is located. The first event will likely be zero, but may not be if there's a timestamp attached to it.

The `*kbuffer_read_buffer()` function will fill the given `_buffer_` from the `_kbuf_` the same way the kernel would do a read system call. That is, if the length `_len_` is less than the sub buffer size, or the kbuffer current index is non-zero, it will start copying from the `_kbuf_` current event and create `_buffer_` as a new sub buffer (with a timestamp and commit header) with that event that was found and including all events after that can fit within `_len_`. The `_len_` must include the size of the sub buffer header as well as the events to include. That is, `_len_` is the allocate size of `_buffer_` that can be filled. The return from this function is the index of the end of the last event that was added. If there are no more events then zero is returned, and if the buffer can not copy any events because `_len_` was too small, then -1 is returned.

RETURN VALUE

`*kbuffer_read_event()` returns the event that the `_kbuf_` descriptor is currently at, or NULL if the last event was passed (by `*kbuffer_next_event()`).

kbuffer_next_event() returns the next event after the current event or NULL if there are no more events.

kbuffer_read_at_offset() returns the event at a given _offset_ from the start of the sub-buffer stored in _kbuf_, or NULL if there exists no event. Note, _offset_ only needs to be an offset that lands on the record, or is at the start of it. It does not need to be exactly at the beginning of the record.

kbuffer_missed_events() returns 0 if there were no missed events before loaded sub-buffer.

Returns -1 if there were an unknown number of missed events, or if the number of missed events is known, that number will be returned.

kbuffer_event_size() returns the size of the data payload of the current event of _kbuf_.

kbuffer_curr_size() returns the size of the entire record of the current event of _kbuf_. This includes the size of the meta data for that record.

kbuf_curr_offset() returns the offset of the current record from the beginning of the _kbuf_ sub-buffer.

kbuf_curr_index() returns the index of the current record from the beginning of the _kbuf_ data section.

kbuf_read_buffer() returns the index of the end of the last event that was filled in _buffer_. If there are no more events to copy from _start_ then 0 is returned. If _len_ is not big enough to hold any events, then -1 is returned.

EXAMPLE

[source,c]

--

```
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
#include <unistd.h>
#include <sys/stat.h>
```

```
#include
<kbuffer.h>
```

```
int main (int argc, char **argv)
{
    unsigned long long ts;
    struct kbuffer *kbuf;
    struct stat st;
    char *buf;
    void *event;
```

```

int save_offset = -1;
int record_size;
int offset;
int index;
int size;
int ret;
int fd;
int i = 0;

if (argc < 2) {
    printf("usage: %s raw-subbuffer-page\n", argv[0]);
    printf(" Try: dd count=1 bs=4096 if=/sys/kernel/tracing/per_cpu/cpu0/trace_pipe_raw of=/tmp/file\n");
    exit(0);
}

if (stat(argv[1], &st) < 0) {
    perror("stat");
    exit(-1);
}

buf = malloc(st.st_size);
if (!buf) {
    perror("Allocating buffer");
    exit(-1);
}

fd = open(argv[1], O_RDONLY);
if (fd < 0) {
    perror(argv[1]);
    exit(-1);
}

ret = read(fd, buf, st.st_size);
if (ret < 0) {
    perror("Reading buffer");
    exit(-1);
}
close(fd);

kbuf = kbuffer_alloc(KBUFFER_ENDIAN_SAME_AS_HOST,
    KBUFFER_LSIZE_SAME_AS_HOST);
if (!kbuf) {
    perror("Creating kbuffer");
    exit(-1);
}
ret = kbuffer_load_subbuffer(kbuf, buf);
if (ret < 0) {
    perror("Loading

```



```

sub bufer");
exit(-1);
}

if (kbuffer_subbuffer_size(kbuf) > st.st_size) {
    fprintf(stderr, "kbuffer is bigger than raw size %d > %ld\n",
        kbuffer_subbuffer_size(kbuf), st.st_size);
    exit(-1);
}

ret = kbuffer_missed_events(kbuf);
if (ret) {
    if (ret > 0)
        printf("Missed %d events before this buffer\n", ret);
    else
        printf("Missed unknown number of events before this buffer\n");
}
do {
    event = kbuffer_read_event(kbuf, &ts);
    if (event) {
        record_size = kbuffer_curr_size(kbuf);
        offset = kbuffer_curr_offset(kbuf);
        index = kbuffer_curr_index(kbuf);
        size = kbuffer_event_size(kbuf);

        if (i == 20)
            save_offset = offset;
        printf(" event %3d ts:%lld\trecord_size:%d size:%d\tindex:%d offset:%d\n",
            i++, ts, record_size, size, index, offset);
        event = kbuffer_next_event(kbuf, NULL);
    }
} while (event);

if (!event)
    printf("Finished sub buffer\n");

if (save_offset > 0) {
    event = kbuffer_read_at_offset(kbuf, save_offset, &ts);
    if
(!event) {
        fprintf(stderr, "Funny, can't find event 20 at offset %d\n", save_offset);
        exit(-1);
    }
    record_size = kbuffer_curr_size(kbuf);
    offset = kbuffer_curr_offset(kbuf);
    index = kbuffer_curr_index(kbuf);
    size = kbuffer_event_size(kbuf);

```

```

printf("\n saved event 20 ts:%lld\trecord_size:%d size:%d\tindex:%d offset:%d\n\n",
      ts, record_size, size, index, offset);
}
kbuffer_free(kbuf);

return 0;
}

```

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

***libtraceevent*(3)**, ***trace-cmd*(1)**

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of ***libtraceevent***.

--

REPORTING BUGS

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LICENSE

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RESOURCES

<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

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libtraceevent(3)

=====

NAME

tep_parse_header_page - Parses the data stored in the header page.

SYNOPSIS

[verse]

--

```
*#include <event-parse.h>*
```

```
int *tep_parse_header_page*(struct tep_handle pass:[*]_tep_, char pass:[*]_buf_, unsigned long _size_, int
_long_size_);
```

--

DESCRIPTION

The `*tep_parse_header_page()` function parses the header page data from `_buf_`, and initializes the `_tep_`, trace event parser context, with it. The buffer `_buf_` is with `_size_`, and is supposed to be copied from `tracefs/events/header_page`.

Some old kernels do not have header page info, in this case the `*tep_parse_header_page()` function can be called with `_size_` equal to 0. The `_tep_` context is initialized with default values. The `_long_size_` can be used in this use case, to set the size of a long integer to be used.

RETURN VALUE

The `*tep_parse_header_page()` function returns 0 in case of success, or -1 in case of an error.

EXAMPLE

[source,c]

--

```
#include <event-parse.h>
```

...

```
struct tep_handle *tep = tep_alloc();
```

...

```
char *buf;
```

```
int size;
```

```
buf = read_file("/sys/kernel/tracing/events/header_page", &size);
```

```
if (tep_parse_header_page(tep, buf, size, sizeof(unsigned long)) != 0) {
```

```
    /* Failed to parse the header page */
```

```
}
```

...

--

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

***libtraceevent*(3)**, ***trace-cmd*(1)**

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of ***libtraceevent***.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

--

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libtraceevent(3)

=====

NAME

tep_find_common_field, **tep_find_field**, **tep_find_any_field** -

Search for a field in an event.

SYNOPSIS

```

-----
[verse]
--
#include <event-parse.h>

struct tep_format_field pass:[*]*tep_find_common_field*(struct tep_event pass:[*]_event_, const char
pass:[*]_name_);
struct tep_format_field pass:[*]*tep_find_field*(struct tep_event_oramat pass:[*]_event_, const char
pass:[*]_name_);
struct tep_format_field pass:[*]*tep_find_any_field*(struct tep_event pass:[*]_event_, const char pass:[*]_name_);
--

```

DESCRIPTION

These functions search for a field with given name in an event. The field returned can be used to find the field content from within a data record.

The `*tep_find_common_field()` function searches for a common field with `_name_` in the `_event_`.

The `*tep_find_field()` function searches for an event specific field with `_name_` in the `_event_`.

The `*tep_find_any_field()` function searches for any field with `_name_` in the `_event_`.

RETURN VALUE

The `_tep_find_common_field()`, `*tep_find_field()` and `_tep_find_any_field()` functions return a pointer to the found field, or NULL in case there is no field with the requested name.

EXAMPLE

```

-----
[source,c]
--
#include <event-parse.h>
...
void get_htimer_info(struct tep_handle *tep, struct tep_record *record)
{
    struct tep_format_field *field;
    struct tep_event *event;
    long long softexpires;
    int mode;
    int pid;

    event = tep_find_event_by_name(tep, "timer", "hrtimer_start");

```

```

field = tep_find_common_field(event, "common_pid");
if (field == NULL) {
    /* Cannot find "common_pid" field in the event */
} else {
    /* Get pid from the data record */
    pid = tep_read_number(tep, record->data + field->offset,
        field->size);
}

field = tep_find_field(event, "softexpires");
if (field == NULL) {
    /* Cannot find "softexpires" event specific field in the event */
} else {
    /* Get
softexpires parameter from the data record */
    softexpires = tep_read_number(tep, record->data + field->offset,
        field->size);
}

field = tep_find_any_field(event, "mode");
if (field == NULL) {
    /* Cannot find "mode" field in the event */
} else
{
    /* Get mode parameter from the data record */
    mode = tep_read_number(tep, record->data + field->offset,
        field->size);
}
}
...
--

```

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

***libtraceevent*(3), *trace-cmd*(1)**

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

--

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RESOURCES

<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

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* /libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-field_find.txt

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libtraceevent(3)

=====

NAME

tep_get_header_page_size, tep_get_header_timestamp_size, tep_is_old_format -

Get the data stored in the header page, in kernel context.

SYNOPSIS

[verse]

--

#include <event-parse.h>

int *tep_get_header_page_size*(struct tep_handle pass:[*]_tep_);

int *tep_get_header_timestamp_size*(struct tep_handle pass:[*]_tep_);

bool *tep_is_old_format*(struct tep_handle pass:[*]_tep_);

--

DESCRIPTION

These functions retrieve information from kernel context, stored in tracefs events/header_page. Old kernels do not have header page info, so default values from user space context are used.

The *tep_get_header_page_size()* function returns the size of a long integer,

in kernel context. The `_tep_` argument is trace event parser context.
This information is retrieved from `tracefs events/header_page`, "commit" field.

The `*tep_get_header_timestamp_size()*` function returns the size of timestamps, in kernel context. The `_tep_` argument is trace event parser context. This information is retrieved from `tracefs events/header_page`, "timestamp" field.

The `*tep_is_old_format()*` function returns true if the kernel predates the addition of `events/header_page`, otherwise it returns false.

RETURN VALUE

The `*tep_get_header_page_size()*` function returns the size of a long integer, in bytes.

The `*tep_get_header_timestamp_size()*` function returns the size of timestamps, in bytes.

The `*tep_is_old_format()*` function returns true, if an old kernel is used to generate the tracing data, which has no `event/header_page`. If the kernel is new, or `_tep_` is NULL, false is returned.

EXAMPLE

```
[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
int longsize;
int timesize;
bool old;

longsize = tep_get_header_page_size(tep);
timesize = tep_get_header_timestamp_size(tep);
old = tep_is_old_format(tep);

printf ("%s kernel
is used to generate the tracing data.\n",
old?"Old":"New");
printf("The size of a long integer is %d bytes.\n", longsize);
printf("The timestamps size is %d bytes.\n", timesize);
...
--
```

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

***libtraceevent*(3), *trace-cmd*(1)**

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of ***libtraceevent***.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

--

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RESOURCES

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libtraceevent(3)

=====

NAME

tep_set_function_resolver, tep_reset_function_resolver, tep_register_function, tep_register_print_string,
tep_get_function_count - function related tep APIs

SYNOPSIS

[verse]

--

```
*#include <event-parse.h>*
```

```
typedef char pass:[*](*tep_func_resolver_t*)(void pass:[*]_priv_, unsigned long long pass:[*]_addrp_, char  
pass:[*]_modp_);  
int *tep_set_function_resolver*(struct tep_handle pass:[*]_tep_, tep_func_resolver_t pass:[*]_func_, void  
pass:[*]_priv_);  
void *tep_reset_function_resolver*(struct tep_handle pass:[*]_tep_);  
int *tep_register_function*(struct tep_handle pass:[*]_tep_, char pass:[*]_name_, unsigned long long _addr_, char  
pass:[*]_modp_);  
int *tep_register_print_string*(struct tep_handle pass:[*]_tep_, const char pass:[*]_fmt_, unsigned long long  
_addr_);  
int *tep_get_function_count*(struct tep_handle *_tep_)  
--
```

DESCRIPTION

Some tools may have already
a way to resolve the kernel functions. These APIs
allow them to keep using it instead of duplicating all the entries inside.

The `_tep_func_resolver_t` type is the prototype of the alternative kernel
functions resolver. This function receives a pointer to its custom context
(set with the `*tep_set_function_resolver()` call) and the address of a kernel
function, which has to be resolved. In case of success, it should return
the name of the function and its module (if any) in `_modp_`.

The `*tep_set_function_resolver()` function registers `_func_` as an alternative
kernel functions resolver. The `_tep_` argument is trace event parser context.
The `_priv_` argument is a custom context of the `_func_` function. The function
resolver is used by the APIs `*tep_find_function*(3)`,
`*tep_find_function_address*(3)`, and `*tep_print_func_field()` to resolve
a function address to a function name.

The `*tep_reset_function_resolver()` function resets the kernel functions
resolver to the default function.

The `_tep_` argument is trace event parser
context.

These APIs can be used to find function name and start address, by given
address. The given address does not have to be exact, it will select
the function that would contain it.

The `*tep_register_function()` function registers a function name mapped to an
address and (optional) module. This mapping is used in case the function tracer
or events have "%pS" parameter in its format string. It is common to pass in
the kallsyms function names with their corresponding addresses with this
function. The `_tep_` argument is the trace event parser context. The `_name_` is

the name of the function, the string is copied internally. The `_addr_` is the start address of the function. The `_mod_` is the kernel module the function may be in (NULL for none).

The `*tep_register_print_string()*` function registers a string by the address it was stored in the kernel. Some strings internal to the kernel with static address are passed to certain events. The `"%s"` in the event's format field which has an address needs to know what string would be at that address. The `tep_register_print_string()` supplies the parsing with the mapping between kernel addresses and those strings. The `_tep_` argument is the trace event parser context. The `_fmt_` is the string to register, it is copied internally. The `_addr_` is the address the string was located at.

`*tep_get_function_count*()` returns the number of registered functions in a tep handler.

RETURN VALUE

The `*tep_set_function_resolver()*` function returns 0 in case of success, or -1 in case of an error.

The `*tep_register_function()*` function returns 0 in case of success. In case of an error -1 is returned, and `errno` is set to the appropriate error number.

The `*tep_register_print_string()*` function returns 0 in case of success. In case of an error -1 is returned, and `errno` is set to the appropriate error number.

EXAMPLE

```
[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep =
    tep_alloc();
...
char *my_resolve_kernel_addr(void *context,
    unsigned long long *addrp, char **modp)
{
    struct db *function_database = context;
    struct symbol *sym = sql_lookup(function_database, *addrp);

    if (!sym)
        return NULL;

    *modp = sym->module_name;
    return sym->name;
}
```

```

void show_function( unsigned long long addr)
{
    unsigned long long fstart;
    const char *fname;

    if (tep_set_function_resolver(tep, my_resolve_kernel_addr,
        function_database) != 0) {
        /* failed to register my_resolve_kernel_addr */
    }

    /* These APIs use my_resolve_kernel_addr() to resolve the addr */
    fname = tep_find_function(tep, addr);
    fstart = tep_find_function_address(tep, addr);

    /*
        addr is in function named fname, starting at fstart address,
        at offset (addr - fstart)
    */

    tep_reset_function_resolver(tep);

}

...
if (tep_register_function(tep, "kvm_exit",
    (unsigned long long) 0x12345678, "kvm") != 0) {
    /* Failed to register kvm_exit address mapping */
}

...
if (tep_register_print_string(tep,
    "print string",
    (unsigned long long) 0x87654321, NULL) != 0) {
    /* Failed to register "print string" address mapping */
}

...
--

```

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]

--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

REPORTING BUGS

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* /libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-func_apis.txt
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libtraceevent(3)
=====

NAME

tep_print_printk, tep_print_funcs, tep_set_test_filters, tep_plugin_print_options -
Print libtraceevent internal information.

SYNOPSIS

[verse]
--
#include <event-parse.h>
#include <trace-seq.h>

void *tep_print_printk*(struct tep_handle pass:[*]tep);
void *tep_print_funcs*(struct tep_handle pass:[*]tep);
void *tep_set_test_filters*(struct tep_handle pass:[*]tep, int test_filters);
void *tep_plugin_print_options*(struct trace_seq pass:[*]s);
--

DESCRIPTION

The `*tep_print_printk()*` function prints the printk string formats that were stored for this tracing session. The `_tep_` argument is trace event parser context.

The `*tep_print_funcs()*` function prints the stored function name to address mapping for this tracing session. The `_tep_` argument is trace event parser context.

The `*tep_set_test_filters()*` function sets a flag to test a filter string. If this flag is set, when `*tep_filter_add_filter_str()*` API is called, it will print the filter string instead of adding it. The `_tep_` argument is trace event parser context. The `_test_filters_` argument is the test flag that will be set.

The `*tep_plugin_print_options()*` function writes a list of the registered plugin options into `_s_`.

EXAMPLE

```
[source,c]
--
#include <event-parse.h>
#include <trace-seq.h>
...
struct tep_handle *tep = tep_alloc();
...
tep_print_printk(tep);
...
tep_print_funcs(tep);
...
struct tep_event_filter *filter = tep_filter_alloc(tep);
tep_set_test_filters(tep, 1);
tep_filter_add_filter_str(filter, "sched/sched_wakeup:target_cpu==1");
tep_set_test_filters(tep, 0);
tep_filter_free(filter);
...
struct trace_seq seq;
trace_seq_init(&seq);

tep_plugin_print_options(&s);
...
--
```

FILES

[verse]

--

`*event-parse.h*`

Header file to include in order to have access to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

***libtraceevent*(3), *trace-cmd*(1)**

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of ***libtraceevent***.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

--

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RESOURCES

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libtraceevent(3)

=====

NAME

tep_get_page_size, tep_set_page_size, tep_get_sub_buffer_data_size, tep_get_sub_buffer_size - Get / set the size of a memory page on the machine, where the trace is generated

SYNOPSIS

[verse]

--

#include <event-parse.h>

int ***tep_get_page_size***(struct tep_handle pass:[*]_tep_);

```

void *tep_set_page_size*(struct tep_handle pass:[*]_tep_, int _page_size_);
int *tep_get_sub_buffer_size*(struct tep_handle pass:[*]_tep_);
int *tep_get_sub_buffer_data_size*(struct tep_handle pass:[*]_tep_);
int *tep_get_sub_buffer_commit_offset*(struct tep_handle pass:[*]_tep_);
--

```

DESCRIPTION

The `*tep_get_page_size()` function returns the size of a memory page on the machine, where the trace is generated. The `_tep_` argument is trace event parser context.

The `*tep_set_page_size()` function stores in the `_tep_` context the size of a memory page on the machine, where the trace is generated.

The `_tep_` argument is trace event parser context.

The `_page_size_` argument is the size of a memory page, in bytes.

The `*tep_get_sub_buffer_size()` returns the size of each "sub buffer" of the ring buffer. The Linux kernel ring buffer is broken up into sections called sub buffers. This returns the size of those buffers.

The `*tep_get_sub_buffer_data_size()` returns the size of just the data portion of the sub buffers.

The `*tep_get_sub_buffer_commit_offset()` returns the offset on the sub buffer that holds the committed portion of data. This number contains the index from the data portion of the sub buffer that is the end of the last element on the sub buffer.

RETURN VALUE

The `*tep_get_page_size()` function returns size of the memory page, in bytes.

The `*tep_get_sub_buffer_size()` function returns the number of bytes each sub buffer is made up of.

The `*tep_get_sub_buffer_commit_offset()` function returns the location on the sub buffer that contains the index of the last element.

EXAMPLE

```
[source,c]
```

```
--
```

```
#include <unistd.h>
```

```
#include <event-parse.h>
```

```
...
```



```

struct tep_handle *tep = tep_alloc();
...
int page_size = getpagesize();

tep_set_page_size(tep, page_size);

printf("The page size for this machine is %d\n", tep_get_page_size(tep));

```

--

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

***libtraceevent*(3), *trace-cmd*(1)**

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of ***libtraceevent***.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

--

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libtraceevent(3)

=====

NAME

tep_print_event - Writes event information into a trace sequence.

SYNOPSIS

[verse]

--

```
*#include <event-parse.h>*
```

```
*#include <trace-seq.h>*
```

```
void *tep_print_event*(struct tep_handle pass:[*]_tep_, struct trace_seqpass:[*]_s_, struct tep_record  
pass:[*]_record_, const char pass:[*]_fmt_, _..._)
```

--

DESCRIPTION

The `*tep_print_event()` function parses the event information of the given `_record_` and writes it into the trace sequence `_s_`, according to the format string `_fmt_`. The desired information is specified after the format string.

The `_fmt_` is printf-like format string, following arguments are supported:

[verse]

--

TEP_PRINT_PID, "%d" - PID of the event.

TEP_PRINT_CPU, "%d" - Event CPU.

TEP_PRINT_COMM, "%s" - Event command string.

TEP_PRINT_NAME, "%s" - Event name.

TEP_PRINT_LATENCY, "%s" - Latency of the event. It prints 4 or more fields -

interrupt state, scheduling state,

current context, and preemption count.

Field 1 is the interrupt enabled state:

d : Interrupts are disabled

. : Interrupts are enabled

X : The architecture does not support this
information

Field 2 is the "need resched" state.

N : The task is set to call the scheduler when
possible, as another higher priority task

may need to be scheduled in.

. : The task is not set to call the scheduler.

Field 3 is the context state.

. : Normal context

s : Soft interrupt context

h : Hard interrupt context

H : Hard interrupt context which triggered during soft interrupt context.

z : NMI context

Z : NMI context which triggered during hard interrupt context

Field 4 is the preemption count.

. : The preempt count is zero.

On preemptible kernels (where the task can be scheduled out in arbitrary locations while in kernel context), the preempt count, when non zero, will prevent the kernel from scheduling out the current task. The preempt count number is displayed when it is not zero.

Depending on the kernel, it may show other fields (lock depth, or migration disabled, which are unique to specialized kernels).

TEP_PRINT_TIME, %d - event time stamp. A divisor and precision can be specified as part of this format string:

"%precision.divisor". Example:

"%3.1000d" - divide the time by 1000 and print the first 3 digits before the dot. Thus, the time stamp "123456000" will be printed as "123.456"

TEP_PRINT_INFO, "%s" - event information.

TEP_PRINT_INFO_RAW, "%s" - event information, in raw format.

--

EXAMPLE

[source,c]

--

```
#include <event-parse.h>
```

```
#include <trace-seq.h>
```

...

```
struct trace_seq seq;
```

```
trace_seq_init(&seq);
```

```
struct tep_handle *tep = tep_alloc();
```

...

```
void print_my_event(struct tep_record *record)
```

```
{
```

```
    trace_seq_reset(&seq);
```

```
    tep_print_event(tep, s, record, "%16s-%5d [%03d] %s %6.1000d %s %s",
```

```
        TEP_PRINT_COMM,
```

```

TEP_PRINT_PID, TEP_PRINT_CPU,
TEP_PRINT_LATENCY, TEP_PRINT_TIME, TEP_PRINT_NAME,
TEP_PRINT_INFO);
}
...
--

```

FILES

```

-----
[verse]
--
*event-parse.h*
Header file to include in order to have access to the library APIs.
*trace-seq.h*
Header file to include in order to have access to trace sequences related APIs.
Trace sequences are used to allow a function to call several other functions
to create a string of data to use.
*-ltraceevent*
Linker switch to add when building a program that uses the library.
--

```

SEE ALSO

```

-----
*libtraceevent*(3), *trace-cmd*(1)

```

AUTHOR

```

-----
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
--

```

REPORTING BUGS

```

-----
Report bugs to <linux-trace-devel@vger.kernel.org>

```

LICENSE

```

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```

RESOURCES

```

-----
https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

```

Found

```

in path(s):
* /libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-event_print.txt

```

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libtraceevent(3)

=====

NAME

tep_read_number_field - Reads a number from raw data.

SYNOPSIS

[verse]

--

```
##include <event-parse.h>
```

```
int *tep_read_number_field*(struct tep_format_field pass:[*]_field_, const void pass:[*]_data_, unsigned long long pass:[*]_value_);
```

--

DESCRIPTION

The `*tep_read_number_field()` function reads the value of the `_field_` from the raw `_data_` and stores it in the `_value_`. The function sets the `_value_` according to the endianness of the raw data and the current machine and stores it in `_value_`.

RETURN VALUE

The `*tep_read_number_field()` function returns 0 in case of success, or -1 in case of an error.

EXAMPLE

[source,c]

--

```
#include <event-parse.h>
```

...

```
struct tep_handle *tep = tep_alloc();
```

...

```
struct tep_event *event = tep_find_event_by_name(tep, "timer", "hrtimer_start");
```

...

```
void process_record(struct tep_record *record)
```

```
{
```

```
    unsigned
```

```
    long long pid;
```

```
    struct tep_format_field *field_pid = tep_find_common_field(event, "common_pid");
```

```
    if (tep_read_number_field(field_pid, record->data, &pid) != 0) {
```

```
/* Failed to get "common_pid" value */
```

```
}
```

```
}
```

```
...
```

```
--
```

FILES

```
-----
```

[verse]

```
--
```

event-parse.h

Header file to include in order to have access to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

```
--
```

SEE ALSO

```
-----
```

***libtraceevent*(3)**, ***trace-cmd*(1)**

AUTHOR

```
-----
```

[verse]

```
--
```

Steven Rostedt <rostedt@goodmis.org>, author of ***libtraceevent***.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

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```

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```
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```

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libtraceevent(3)

```
=====
```

NAME

```
----
```

tep_set_flag, tep_clear_flag, tep_test_flag -

Manage flags of trace event parser context.

SYNOPSIS

```
-----  
[verse]  
--  
*#include <event-parse.h>*
```

```
enum *tep_flag* {  
    _TEP_NSEC_OUTPUT_,  
    _TEP_DISABLE_SYS_PLUGINS_,  
    _TEP_DISABLE_PLUGINS_  
};  
void *tep_set_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flag_);  
void *tep_clear_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flag_);  
bool *tep_test_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flag_);  
--
```

DESCRIPTION

```
-----  
Trace event parser context flags are defined in *enum tep_flag*:  
[verse]  
--  
_TEP_NSEC_OUTPUT_ - print event's timestamp in nano seconds, instead of micro seconds.  
_TEP_DISABLE_SYS_PLUGINS_ - disable plugins, located in system's plugin  
    directory. This directory is defined at library compile  
    time, and usually depends on library installation  
    prefix: (install_prefix)/lib/traceevent/plugins  
_TEP_DISABLE_PLUGINS_  
- disable all library plugins:  
- in system's plugin directory  
- in directory, defined by the environment variable _TRACEEVENT_PLUGIN_DIR_  
- in user's home directory, _~/.traceevent/plugins_  
--
```

Note: plugin related flags must me set before calling *tep_load_plugins()* API.

The *tep_set_flag()* function sets _flag_ to _tep_ context.

The *tep_clear_flag()* function clears _flag_ from _tep_ context.

The *tep_test_flag()* function tests if _flag_ is set to _tep_ context.

RETURN VALUE

```
-----  
*tep_test_flag()* function returns true if _flag_ is set, false otherwise.
```

EXAMPLE

```
-----
```

```

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
/* Print timestamps in nanoseconds */
tep_set_flag(tep, TEP_NSEC_OUTPUT);
...
if (tep_test_flag(tep, TEP_NSEC_OUTPUT)) {
    /* print timestamps in nanoseconds */
} else {
    /* print timestamps in microseconds */
}
...
/* Print timestamps in microseconds */
tep_clear_flag(tep, TEP_NSEC_OUTPUT);
...
--
FILES
-----
[verse]
--
*event-parse.h*
Header
file to include in order to have access to the library APIs.
*-ltraceevent*
Linker switch to add when building a program that uses the library.
--

SEE ALSO
-----
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
-----
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
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libtraceevent(3)

=====

NAME

tep_register_print_function, tep_unregister_print_function -

Registers / Unregisters a helper function.

SYNOPSIS

[verse]

--

```
*#include <event-parse.h>*
```

```
enum *tep_func_arg_type* {  
    TEP_FUNC_ARG_VOID,  
    TEP_FUNC_ARG_INT,  
    TEP_FUNC_ARG_LONG,  
    TEP_FUNC_ARG_STRING,  
    TEP_FUNC_ARG_PTR,  
    TEP_FUNC_ARG_MAX_TYPES  
};
```

```
typedef unsigned long long (*pass:[*]tep_func_handler*)(struct trace_seq pass:[*]s, unsigned long long  
pass:[*]args);
```

```
int *tep_register_print_function*(struct tep_handle pass:[*]_tep_, tep_func_handler _func_, enum  
tep_func_arg_type _ret_type_, char pass:[*]_name_, ...);  
int *tep_unregister_print_function*(struct tep_handle pass:[*]_tep_, tep_func_handler _func_, char  
pass:[*]_name_);  
--
```

DESCRIPTION

Some events may have helper functions in the print format arguments.

This allows a plugin to dynamically create a way to process one of these functions.

The

`*tep_register_print_function()` registers such helper function. The `_tep_` argument is the trace event parser context. The `_func_` argument is a pointer to the helper function. The `_ret_type_` argument is the return type of the helper function, value from the `_tep_func_arg_type_enum`. The `_name_` is the name of the helper function, as seen in the print format arguments. The `__...` is a variable list of `_tep_func_arg_type_enums`, the `_func_` function arguments. This list must end with `_TEP_FUNC_ARG_VOID_`. See 'EXAMPLE' section.

The `*tep_unregister_print_function()` unregisters a helper function, previously registered with `*tep_register_print_function()`. The `_tep_` argument is the trace event parser context. The `_func_` and `_name_` arguments are the same, used when the helper function was registered.

The `_tep_func_handler_` is the type of the helper function. The `_s_` argument is the trace sequence, it can be used to create a custom string.

The `_args_` is a list of arguments, defined when the helper function was registered.

RETURN VALUE

The `*tep_register_print_function()` function returns 0 in case of success. In case of an error, `TEP_ERRNO_...` code is returned.

The `*tep_unregister_print_function()` returns 0 in case of success, or -1 in case of an error.

EXAMPLE

Some events have internal functions calls, that appear in the print format output. For example "tracefs/events/i915/g4x_wm/format" has:

[source,c]

--

```
print fmt: "pipe %c, frame=%u, scanline=%u, wm %d/%d/%d, sr %s/%d/%d/%d, hpll %s/%d/%d/%d, fbc %s",
((REC->pipe) + 'A'), REC->frame, REC->scanline, REC->primary,
REC->sprite, REC->cursor, yesno(REC->cxsr), REC->sr_plane,
REC->sr_cursor, REC->sr_fbc, yesno(REC->hpll), REC->hpll_plane,
REC->hpll_cursor, REC->hpll_fbc, yesno(REC->fbc)
```

--

Notice the call to function `*yesno()` in the print arguments. In the kernel context, this function has the following implementation:

[source,c]

--

```
static const char *yesno(int x)
{
    static
    const char *yes = "yes";
    static const char *no = "no";
```

```
return x ? yes : no;
```

```
}
```

```
--
```

The user space event parser has no idea how to handle this `*yesno()` function.

The `*tep_register_print_function()` API can be used to register a user space helper function, mapped to the kernel's `*yesno()`:

[source,c]

```
--
```

```
#include <event-parse.h>
```

```
#include <trace-seq.h>
```

```
...
```

```
struct tep_handle *tep = tep_alloc();
```

```
...
```

```
static const char *yes_no_helper(int x)
```

```
{
```

```
    return x ? "yes" : "no";
```

```
}
```

```
...
```

```
if ( tep_register_print_function(tep,
    yes_no_helper,
    TEP_FUNC_ARG_STRING,
    "yesno",
    TEP_FUNC_ARG_INT,
    TEP_FUNC_ARG_VOID) != 0) {
    /* Failed to register yes_no_helper function */
}
```

```
/*
```

```
    Now, when the event parser encounters this yesno() function, it will know
    how to handle it.
```

```
*/
```

```
...
```

```
if (tep_unregister_print_function(tep, yes_no_helper, "yesno") != 0) {
    /* Failed to unregister yes_no_helper function */
}
```

```
--
```

FILES

[verse]

```
--
```

`*event-parse.h*`

Header file to include

in order to have access to the library APIs.

`*trace-seq.h*`

Header file to include in order to have access to trace sequences

related APIs. Trace sequences are used to allow a function to call

several other functions to create a string of data to use.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

***libtraceevent*(3), *trace-cmd*(1)**

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of ***libtraceevent***.

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libtraceevent(3)

=====

NAME

tep_print_field_content, tep_print_fields, tep_print_num_field, tep_print_func_field, tep_record_print_fields,
tep_record_print_selected_fields -

Print the field content.

SYNOPSIS

[verse]

--

#include <event-parse.h>

#include <trace-seq.h>

```

void *tep_print_field_content*(struct trace_seq pass:[*]_s_, void pass:[*]_data_, int size, struct tep_format_field
pass:[*]_field_);
void *tep_print_fields*(struct trace_seq pass:[*]_s_, void pass:[*]_data_, int _size_, struct tep_event
pass:[*]_event_);
int *tep_print_num_field*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, struct tep_event pass:[*]_event_,
const char pass:[*]_name_, struct tep_record pass:[*]_record_, int _err_);
int *tep_print_func_field*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, struct tep_event pass:[*]_event_,
const char pass:[*]_name_, struct tep_record pass:[*]_record_, int
_err_);
void *tep_record_print_fields*(struct trace_seq pass:[*]_s_, struct tep_record pass:[*]_record_, struct tep_event
pass:[*]_event_);
void *tep_record_print_selected_fields*(struct trace_seq pass:[*]_s_, struct tep_record pass:[*]_record_, struct
tep_event pass:[*]_event_, int _select_mask_);
--

```

DESCRIPTION

These functions print recorded field's data, according to the field's type.

The `*tep_print_field_content()` function extracts from the recorded raw `_data_` value of the `_field_` and prints it into `_s_`, according to the field type.

The `*tep_print_fields()` prints each field name followed by the record's field value according to the field's type:

[verse]

--

"field1_name=field1_value field2_name=field2_value ..."

--

It iterates all fields of the `_event_`, and calls `*tep_print_field_content()` for each of them.

The `*tep_print_num_field()` function prints a numeric field with given format string. A search is performed in the `_event_` for a field with `_name_`. If such field

is found, its value is extracted from the `_record_` and is printed in the `_s_`, according to the given format string `_fmt_`. If the argument `_err_` is non-zero, and an error occurs - it is printed in the `_s_`.

The `*tep_print_func_field()` function prints a function field with given format string. A search is performed in the `_event_` for a field with `_name_`. If such field is found, its value is extracted from the `_record_`. The value is assumed to be a function address, and a search is performed to find the name of this function. The function name (if found) and its address are printed in the `_s_`, according to the given format string `_fmt_`. If the argument `_err_` is non-zero, and an error occurs - it is printed in `_s_`.

The `*tep_record_print_fields()` prints the field's name followed by its value for all record's field.

The `*tep_record_print_selected_fields()` prints the field's name followed by its value for selected subset of record field. The fields to be printed are defined by the `_select_mask_` bit mask.

RETURN VALUE

The `*tep_print_num_field()` and `*tep_print_func_field()` functions return 1 on success, -1 in case of an error or 0 if the print buffer `_s_` is full.

EXAMPLE

```
[source,c]
--
#include <event-parse.h>
#include <trace-seq.h>
...
struct tep_handle *tep = tep_alloc();
...
struct trace_seq seq;
trace_seq_init(&seq);
struct tep_event *event = tep_find_event_by_name(tep, "timer", "hrtimer_start");
...
void process_record(struct tep_record *record)
{
    struct tep_format_field *field_pid = tep_find_common_field(event, "common_pid");

    trace_seq_reset(&seq);

    /* Print the value of "common_pid" */
    tep_print_field_content(&seq, record->data, record->size, field_pid);

    /* Print all fields of the "hrtimer_start" event */
    tep_print_fields(&seq, record->data, record->size, event);

    /* Print the value of "expires" field with custom format string */
    tep_print_num_field(&seq, " timer expires in %llu ", event, "expires", record, 0);

    /* Print the
    address and the name of "function" field with custom format string */
    tep_print_func_field(&seq, " timer function is %s ", event, "function", record, 0);
}
...
--
```

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

trace-seq.h

Header file to include in order to have access to trace sequences related APIs.

Trace sequences are used to allow a function to call several other functions to create a string of data to use.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

***libtraceevent*(3), *trace-cmd*(1)**

AUTHOR

[verse]

--

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```
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```

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```

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```
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```

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

libtraceevent(3)

=====

NAME

tep_load_plugins, tep_unload_plugins, tep_load_plugins_hook, tep_add_plugin_path,
tep_plugin_add_option - Load / unload traceevent plugins.

SYNOPSIS

```
[verse]
--
#include <event-parse.h>

struct tep_plugin_list pass:[*]*tep_load_plugins*(struct tep_handle pass:[*]_tep_);
void *tep_unload_plugins*(struct tep_plugin_list pass:[*]_plugin_list_, struct tep_handle pass:[*]_tep_);
void *tep_load_plugins_hook*(struct tep_handle pass:[*]_tep_, const char pass:[*]_suffix_,
    void (pass:[*]_load_plugin_)(struct tep_handle pass:[*]tep,
        const char pass:[*]path,
        const char pass:[*]name,
        void pass:[*]data),
    void pass:[*]_data_);
int *tep_add_plugin_path*(struct tep_handle pass:[*]tep, char pass:[*]path,
    enum tep_plugin_load_priority prio);
int *tep_plugin_add_option*(const char pass:[*]_name_, const char pass:[*]_val_);
--
```

DESCRIPTION

The

`*tep_load_plugins()` function loads all plugins, located in the plugin directories. The `_tep_` argument is trace event parser context.

The plugin directories are :

[verse]

--

- Directories, specified in `_tep_>plugins_dir` with priority `TEP_PLUGIN_FIRST`
- System's plugin directory, defined at the library compile time. It depends on the library installation prefix and usually is `_(install_prefix)/lib/traceevent/plugins_`
- Directory, defined by the environment variable `_TRACEEVENT_PLUGIN_DIR_`
- User's plugin directory, located at `~/local/lib/traceevent/plugins_`
- Directories, specified in `_tep_>plugins_dir` with priority `TEP_PLUGIN_LAST`

--

Loading of plugins can be controlled by the `_tep_flags_`, using the

`*tep_set_flag()` API:

[verse]

--

- `_TEP_DISABLE_SYS_PLUGINS_` - do not load plugins, located in the system's plugin directory.
- `_TEP_DISABLE_PLUGINS_` - do not load any plugins.

--

The `*tep_set_flag()` API needs to be called before `*tep_load_plugins()`, if loading of all plugins is not the desired case.

The `*tep_unload_plugins()` function unloads the plugins, previously loaded by `*tep_load_plugins()`. The `_tep_` argument is trace event parser context. The `_plugin_list_` is the list of loaded plugins, returned by

the `*tep_load_plugins()*` function.

The `*tep_load_plugins_hook()*` function walks through all directories with plugins and calls user specified `*load_plugin()*` hook for each plugin file. Only files with given `_suffix_` are considered to be plugins. The `_data_` is a user specified context, passed to `*load_plugin()*`. Directories and the walk order are the same as in `*tep_load_plugins()*` API.

The `*tep_add_plugin_path()*` functions adds additional directories with plugins in the `_tep_ ->plugins_dir` list. It must be called before `*tep_load_plugins()*` in order for the plugins from the new directories to be loaded. The `_tep_` argument is the trace event parser context. The `_path_` is the full path to the new plugin directory. The `_prio_` argument specifies the loading priority order for the new directory of plugins. The loading priority is important in case of different versions of the same plugin located in multiple plugin directories. The last loaded plugin wins. The priority can be:

[verse]

--

`_TEP_PLUGIN_FIRST_` - Load plugins from this directory first

`_TEP_PLUGIN_LAST_` - Load plugins from this directory last

--

Where the plugins in `TEP_PLUGIN_LAST` will take precedence over the plugins in the other directories.

The `*tep_plugin_add_option()*` sets options defined by a plugin. The `_name_` is the name of the option to set to `_val_`. Plugins can add options to change its behavior and `*tep_plugin_add_option()*` is used by the application to make those modifications.

RETURN VALUE

The `*tep_load_plugins()*` function returns a list of successfully loaded plugins, or NULL in case no plugins are loaded.

The `*tep_add_plugin_path()*` function returns -1 in case of an error, 0 otherwise.

EXAMPLE

[source,c]

--

#include

<event-parse.h>

...

struct tep_handle *tep = tep_alloc();

...

tep_add_plugin_path(tep, "~/dev_plugins", TEP_PLUGIN_LAST);

...

struct tep_plugin_list *plugins = tep_load_plugins(tep);

```

if (plugins == NULL) {
    /* no plugins are loaded */
}
...
tep_unload_plugins(plugins, tep);
...
void print_plugin(struct tep_handle *tep, const char *path,
    const char *name, void *data)
{
    printf("Found libtraceevent plugin %s/%s\n", path, name);
}
...
tep_load_plugins_hook(tep, ".so", print_plugin, NULL);
...
--

```

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

***libtraceevent*(3)**, ***trace-cmd*(1)**, ***tep_set_flag*(3)**

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of ***libtraceevent***.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

--

REPORTING BUGS

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LICENSE

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RESOURCES

<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

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* /libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-plugins.txt

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libtraceevent(3)

=====

NAME

tep_get_cpus, tep_set_cpus - Get / set the number of CPUs, which have a tracing buffer representing it. Note, the buffer may be empty.

SYNOPSIS

[verse]

--

#include <event-parse.h>

int *tep_get_cpus*(struct tep_handle pass:[*]_tep_);
void *tep_set_cpus*(struct tep_handle pass:[*]_tep_, int _cpus_);

--

DESCRIPTION

The *tep_get_cpus()* function gets the number of CPUs, which have a tracing buffer representing it. The _tep_ argument is trace event parser context.

The *tep_set_cpus()* function sets the number of CPUs, which have a tracing buffer representing it. The _tep_ argument is trace event parser context.
The _cpu_ argument is the number of CPUs with tracing data.

RETURN VALUE

The *tep_get_cpus()* functions returns the number of CPUs, which have tracing data recorded.

EXAMPLE

[source,c]

--

#include <event-parse.h>

...

struct

tep_handle *tep = tep_alloc();

...

tep_set_cpus(tep, 5);

```
...
printf("We have tracing data for %d CPUs", tep_get_cpus(tep));
--
```

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

***libtraceevent*(3)**, ***trace-cmd*(1)**

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of ***libtraceevent***.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

--

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RESOURCES

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libtraceevent(3)

=====

NAME

trace_seq_init, trace_seq_destroy, trace_seq_reset, trace_seq_terminate,

trace_seq_putc, trace_seq_puts, trace_seq_printf, trace_seq_vprintf,

trace_seq_do_fprintf, trace_seq_do_printf -
Initialize / destroy a trace sequence.

SYNOPSIS

```
-----  
[verse]  
--  
*#include <event-parse.h>*  
*#include <trace-seq.h>*  
void *trace_seq_init*(struct trace_seq pass:[*]_s_);  
void *trace_seq_destroy*(struct trace_seq pass:[*]_s_);  
void *trace_seq_reset*(struct trace_seq pass:[*]_s_);  
void *trace_seq_terminate*(struct trace_seq pass:[*]_s_);  
int *trace_seq_putc*(struct trace_seq pass:[*]_s_, unsigned char _c_);  
int *trace_seq_puts*(struct trace_seq pass:[*]_s_, const char pass:[*]_str_);  
int *trace_seq_printf*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, ...);  
int *trace_seq_vprintf*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, va_list _args_);  
int *trace_seq_do_printf*(struct  
    trace_seq pass:[*]_s_);  
int *trace_seq_do_fprintf*(struct trace_seq pass:[*]_s_, FILE pass:[*]_fp_);  
--
```

DESCRIPTION

Trace sequences are used to allow a function to call several other functions to create a string of data to use.

The `*trace_seq_init()*` function initializes the trace sequence `_s_`.

The `*trace_seq_destroy()*` function destroys the trace sequence `_s_` and frees all its resources that it had used.

The `*trace_seq_reset()*` function re-initializes the trace sequence `_s_`. All characters already written in `_s_` will be deleted.

The `*trace_seq_terminate()*` function terminates the trace sequence `_s_`. It puts the null character `pass:['\0']` at the end of the buffer.

The `*trace_seq_putc()*` function puts a single character `_c_` in the trace sequence `_s_`.

The `*trace_seq_puts()*` function puts a NULL terminated string `_str_` in the trace sequence `_s_`.

The `*trace_seq_printf()*` function puts a formatted string `_fmt_` with variable arguments `_..._` in the trace sequence

s.

The `*trace_seq_vprintf()` function puts a formatted string `_fmt` with list of arguments `_args` in the trace sequence `_s`.

The `*trace_seq_do_printf()` function prints the buffer of trace sequence `_s` to the standard output `stdout`.

The `*trace_seq_do_fprintf()` function prints the buffer of trace sequence `_s` to the given file `_fp`.

RETURN VALUE

Both `*trace_seq_putc()` and `*trace_seq_puts()` functions return the number of characters put in the trace sequence, or 0 in case of an error

Both `*trace_seq_printf()` and `*trace_seq_vprintf()` functions return 0 if the trace oversizes the buffer's free space, the number of characters printed, or a negative value in case of an error.

Both `*trace_seq_do_printf()` and `*trace_seq_do_fprintf()` functions return the number of printed characters, or -1 in case of an error.

EXAMPLE

```
[source,c]
--
#include <event-parse.h>
#include <trace-seq.h>
...
struct trace_seq seq;
trace_seq_init(&seq);
...
void foo_seq_print(struct trace_seq
*tseq, char *format, ...)
{
    va_list ap;
    va_start(ap, format);
    if (trace_seq_vprintf(tseq, format, ap) <= 0) {
        /* Failed to print in the trace sequence */
    }
    va_end(ap);
}

trace_seq_reset(&seq);

char *str = " MAN page example";
if (trace_seq_puts(&seq, str) != strlen(str)) {
```

```

/* Failed to put str in the trace sequence */
}
if (trace_seq_putc(&seq, ':') != 1) {
/* Failed to put ':' in the trace sequence */
}
if (trace_seq_printf(&seq, " trace sequence: %d", 1) <= 0) {
/* Failed to print in the trace sequence */
}
foo_seq_print( &seq, " %d\n", 2);

trace_seq_terminate(&seq);
...

if (trace_seq_do_printf(&seq) < 0 ) {
/* Failed to print the sequence buffer to the standard output */
}
FILE *fp = fopen("trace.txt", "w");
if (trace_seq_do_fprintf(&seq, fp) < 0 ) [
/* Failed to print the sequence buffer to the trace.txt file */
}

trace_seq_destroy(&seq);
...
--

```

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

trace-seq.h

Header

file to include in order to have access to trace sequences related APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

***libtraceevent*(3), *trace-cmd*(1)**

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of ***libtraceevent***.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

--

REPORTING BUGS

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RESOURCES

<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

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libtraceevent(3)

=====

NAME

tep_find_function, tep_find_function_address, tep_find_function_info - Find function name / start address.

SYNOPSIS

[verse]

--

```
*#include <event-parse.h>*
```

```
const char pass:[*]*tep_find_function*(struct tep_handle pass:[*]_tep_, unsigned long long _addr_);
unsigned long long *tep_find_function_address*(struct tep_handle pass:[*]_tep_, unsigned long long _addr_);
int *tep_find_function_info*(struct tep_handle pass:[*]_tep_, unsigned long long _addr_, const char
pass:[**]_name_,
    unsigned long long pass:[*]_start_, unsigned long pass:[*]_size_);
```

--

DESCRIPTION

These functions can be used to find function name and start address, by given address. The given address does not have to be exact, it will select the function that would contain it.

The `*tep_find_function()` function returns the function name, which contains the given address `_addr_`. The `_tep_` argument is the trace event parser context.

The `*tep_find_function_address()` function returns the function start address,

by given address `_addr_`. The `_addr_` does not have to be exact, it will select the function that would contain it. The `_tep_` argument is the trace event parser context.

The `*tep_find_function_info()*` function retrieves the `_name_`, starting address (`_start_`), and the function text `_size_` of the function at `_address_`, if it is found. Note, if the `_tep_` handle has a function resolver (used by perf), then `_size_` is set to zero.

RETURN VALUE

The `*tep_find_function()*` function returns the function name, or NULL in case it cannot be found.

The `*tep_find_function_address()*` function returns the function start address, or 0 in case it cannot be found.

The `*tep_find_function_info()*` function returns 1 if a function is found for the given address, or 0 if it is not.

EXAMPLE

```
[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
void
show_function_name(unsigned long long addr)
{
    const char *fname = tep_find_function(tep, addr);

    if (fname)
        printf("Found function %s at 0x%0llx\n", fname, addr);
    else
        printf("No function found at 0x%0llx\n", addr);
}

void show_function_start_addr(unsigned long long addr)
{
    const char *fname = tep_find_function(tep, addr);
    unsigned long long fstart;

    if (!fname) {
        printf("No function found at 0x%0llx\n", addr);
        return;
    }
}
```

```

fstart = tep_find_function_address(tep, addr);
printf("Function %s at 0x%llx starts at 0x%0llx\n",
       fname, addr, fstart);
}

void show_function_info(unsigned long long addr)
{
    const char *fname;
    unsigned long long fstart;
    unsigned long size;

    ret = tep_find_function_info(tep, addr, &fname, &fstart, &size);
    if (!ret) {
        printf("No function found at 0x%0lx\n", addr);
        return;
    }

    printf("Function %s at 0x%lx starts at 0x%0lx and is %ld in size\n",
          fname, addr, fstart, size);
}
...
--

```

FILES

```

-----
[verse]
--
*event-parse.h*
Header
file to include in order to have access to the library APIs.
*-ltraceevent*
Linker switch to add when building a program that uses the library.
--

```

SEE ALSO

```

-----
*libtraceevent*(3), *trace-cmd*(1)

```

AUTHOR

```

-----
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
--

```

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```

-----
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```

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RESOURCES

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libtraceevent(3)

=====

NAME

libtraceevent - Linux kernel trace event library

SYNOPSIS

[verse]

--

`*#include <event-parse.h>*`

Management of tep handler data structure and access of its members:

```
struct tep_handle pass:[*]*tep_alloc*(void);
void *tep_free*(struct tep_handle pass:[*]_tep_);
void *tep_ref*(struct tep_handle pass:[*]_tep_);
void *tep_unref*(struct tep_handle pass:[*]_tep_);
int *tep_get_ref*(struct tep_handle pass:[*]_tep_);
void *tep_set_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flag_);
void *tep_clear_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flag_);
bool *tep_test_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flags_);
int *tep_get_cpus*(struct tep_handle pass:[*]_tep_);
void *tep_set_cpus*(struct tep_handle pass:[*]_tep_, int _cpus_);
int *tep_get_long_size*(struct tep_handle pass:[*]_tep_);
void *tep_set_long_size*(struct tep_handle
pass:[*]_tep_, int _long_size_);
int *tep_get_page_size*(struct tep_handle pass:[*]_tep_);
void *tep_set_page_size*(struct tep_handle pass:[*]_tep_, int _page_size_);
int *tep_get_sub_buffer_size*(struct tep_handle pass:[*]_tep_);
int *tep_get_sub_buffer_data_size*(struct tep_handle pass:[*]_tep_);
int *tep_get_sub_buffer_commit_offset*(struct tep_handle pass:[*]_tep_);
int *tep_get_header_page_size*(struct tep_handle pass:[*]_tep_);
int *tep_get_header_timestamp_size*(struct tep_handle pass:[*]_tep_);
bool *tep_is_old_format*(struct tep_handle pass:[*]_tep_);
```

```
int *tep_strerror*(struct tep_handle pass:[*]_tep_, enum tep_errno _errnum_, char pass:[*]_buf_, size_t _buflen_);
struct kbuffer pass:[*]*tep_kbuffer*(struct tep_handle pass:[*]_tep_);
```

Register / unregister APIs:

```
int *tep_register_function*(struct tep_handle pass:[*]_tep_, char pass:[*]_name_, unsigned long long _addr_, char
pass:[*]_mod_);
int *tep_register_event_handler*(struct tep_handle pass:[*]_tep_, int _id_,
const char pass:[*]_sys_name_, const char pass:[*]_event_name_, tep_event_handler_func _func_, void
pass:[*]_context_);
int *tep_unregister_event_handler*(struct tep_handle pass:[*]tep, int id, const char pass:[*]sys_name, const char
pass:[*]event_name, tep_event_handler_func func, void pass:[*]_context_);
int *tep_register_print_string*(struct tep_handle pass:[*]_tep_, const char pass:[*]_fmt_, unsigned long long
_addr_);
int *tep_register_print_function*(struct tep_handle pass:[*]_tep_, tep_func_handler _func_, enum
tep_func_arg_type _ret_type_, char pass:[*]_name_, ...);
int *tep_unregister_print_function*(struct tep_handle pass:[*]_tep_, tep_func_handler _func_, char
pass:[*]_name_);
int *tep_get_function_count*(struct tep_handle *_tep_);
```

Trace printk parsing:

```
void *tep_print_printk*(struct tep_handle pass:[*]tep);
void *tep_print_funcs*(struct tep_handle pass:[*]tep);
void *tep_set_test_filters*(struct tep_handle pass:[*]tep, int test_filters);
void *tep_plugin_print_options*(struct
trace_seq pass:[*]s);
int *tep_plugin_add_option*(const char pass:[*]_name_, const char pass:[*]_val_);
```

Meta data parsing:

```
int *tep_parse_saved_cmdlines*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);
int *tep_parse_printk_formats*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);
int *tep_parse_kallsyms*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);
```

Plugins management:

```
struct tep_plugin_list pass:[*]*tep_load_plugins*(struct tep_handle pass:[*]_tep_);
void *tep_unload_plugins*(struct tep_plugin_list pass:[*]_plugin_list_, struct tep_handle pass:[*]_tep_);
char pass:[*]pass:[*]*tep_plugin_list_options*(void);
void *tep_plugin_free_options_list*(char pass:[*]pass:[*]_list_);
int *tep_plugin_add_options*(const char pass:[*]_name_, struct tep_plugin_option pass:[*]_options_);
void *tep_plugin_remove_options*(struct tep_plugin_option pass:[*]_options_);
void *tep_print_plugins*(struct trace_seq pass:[*]_s_, const char pass:[*]_prefix_,
const char pass:[*]_suffix_, const struct tep_plugin_list pass:[*]_list_);
void *tep_load_plugins_hook*(struct tep_handle pass:[*]_tep_, const char pass:[*]_suffix_,
void (pass:[*]_load_plugin_)(struct tep_handle pass:[*]tep,
const char pass:[*]path,
const char pass:[*]name,
void pass:[*]data),
void pass:[*]_data_);
int *tep_add_plugin_path*(struct tep_handle pass:[*]tep, char pass:[*]path,
```

```
enum tep_plugin_load_priority prio);
```

Event related APIs:

```
struct tep_event pass:[*]*tep_get_event*(struct tep_handle pass:[*]_tep_, int _index_);
struct tep_event pass:[*]*tep_get_first_event*(struct tep_handle pass:[*]_tep_);
int *tep_get_events_count*(struct tep_handle pass:[*]_tep_);
struct tep_event pass:[*]pass:[*]*tep_list_events*(struct tep_handle pass:[*]_tep_, enum tep_event_sort_type
_sort_type_);
struct tep_event pass:[*]pass:[*]*tep_list_events_copy*(struct tep_handle pass:[*]_tep_, enum tep_event_sort_type
_sort_type_);
void
*tep_print_event*(struct tep_handle pass:[*]_tep_, struct trace_seq pass:[*]_s_, struct tep_record pass:[*]_record_,
const char pass:[*]_fmt_, ...);
```

Event finding:

```
struct tep_event pass:[*]*tep_find_event*(struct tep_handle pass:[*]_tep_, int _id_);
struct tep_event pass:[*]*tep_find_event_by_name*(struct tep_handle pass:[*]_tep_, const char pass:[*]_sys_, const
char pass:[*]_name_);
struct tep_event pass:[*]*tep_find_event_by_record*(struct tep_handle pass:[*]_tep_, struct tep_record
pass:[*]_record_);
bool *tep_record_is_event*(struct tep_record pass:[*]_record, struct tep_event pass:[*]_event);
```

Parsing of event files:

```
int *tep_parse_header_page*(struct tep_handle pass:[*]_tep_, char pass:[*]_buf_, unsigned long _size_, int
_long_size_);
enum tep_errno *tep_parse_event*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_, unsigned long _size_,
const char pass:[*]_sys_);
enum tep_errno *tep_parse_format*(struct tep_handle pass:[*]_tep_, struct tep_event pass:[*]pass:[*]_eventp_,
const char pass:[*]_buf_, unsigned long _size_, const char pass:[*]_sys_);
```

APIs related to fields from event's format files:

```
struct tep_format_field pass:[*]pass:[*]*tep_event_common_fields*(struct tep_event pass:[*]_event_);
struct tep_format_field pass:[*]pass:[*]*tep_event_fields*(struct tep_event pass:[*]_event_);
void pass:[*]*tep_get_field_raw*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char
pass:[*]_name_, struct tep_record pass:[*]_record_, int pass:[*]_len_, int _err_);
int *tep_get_field_val*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char pass:[*]_name_,
struct tep_record pass:[*]_record_, unsigned long long pass:[*]_val_, int _err_);
int *tep_get_common_field_val*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char
pass:[*]_name_, struct tep_record pass:[*]_record_, unsigned long long pass:[*]_val_, int _err_);
int *tep_get_any_field_val*(struct trace_seq pass:[*]_s_, struct
tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, unsigned long long
pass:[*]_val_, int _err_);
int *tep_read_number_field*(struct tep_format_field pass:[*]_field_, const void pass:[*]_data_, unsigned long long
pass:[*]_value_);
```

Event fields printing:

```
void *tep_print_field_content*(struct trace_seq pass:[*]_s_, void pass:[*]_data_, int size, struct tep_format_field
pass:[*]_field_);
```

```

void *tep_print_fields*(struct trace_seq pass:[*]_s_, void pass:[*]_data_, int _size_, struct tep_event
pass:[*]_event_);
int *tep_print_num_field*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, struct tep_event pass:[*]_event_,
const char pass:[*]_name_, struct tep_record pass:[*]_record_, int _err_);
int *tep_print_func_field*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, struct tep_event pass:[*]_event_,
const char pass:[*]_name_, struct tep_record pass:[*]_record_, int _err_);
void *tep_record_print_fields*(struct trace_seq pass:[*]_s_,
struct tep_record pass:[*]_record_, struct tep_event pass:[*]_event_);
void *tep_record_print_selected_fields*(struct trace_seq pass:[*]_s_, struct tep_record pass:[*]_record_, struct
tep_event pass:[*]_event_, int _select_mask_);

```

Event fields finding:

```

struct tep_format_field pass:[*]*tep_find_common_field*(struct tep_event pass:[*]_event_, const char
pass:[*]_name_);
struct tep_format_field pass:[*]*tep_find_field*(struct tep_event_oramat pass:[*]_event_, const char
pass:[*]_name_);
struct tep_format_field pass:[*]*tep_find_any_field*(struct tep_event pass:[*]_event_, const char pass:[*]_name_);

```

Functions resolver:

```

int *tep_set_function_resolver*(struct tep_handle pass:[*]_tep_, tep_func_resolver_t pass:[*]_func_, void
pass:[*]_priv_);
void *tep_reset_function_resolver*(struct tep_handle pass:[*]_tep_);
const char pass:[*]*tep_find_function*(struct tep_handle pass:[*]_tep_, unsigned long long _addr_);
unsigned long long *tep_find_function_address*(struct tep_handle pass:[*]_tep_,
unsigned long long _addr_);
int *tep_find_function_info*(struct tep_handle pass:[*]_tep_, unsigned long long _addr_, const char
pass:[*]_name_,
    unsigned long long pass:[*]_start_, unsigned long pass:[*]_size_);

```

Filter management:

```

struct tep_event_filter pass:[*]*tep_filter_alloc*(struct tep_handle pass:[*]_tep_);
enum tep_errno *tep_filter_add_filter_str*(struct tep_event_filter pass:[*]_filter_, const char pass:[*]_filter_str_);
enum tep_errno *tep_filter_match*(struct tep_event_filter pass:[*]_filter_, struct tep_record pass:[*]_record_);
int *tep_filter_strerror*(struct tep_event_filter pass:[*]_filter_, enum tep_errno _err_, char pass:[*]_buf, size_t
_buflen_);
int *tep_event_filtered*(struct tep_event_filter pass:[*]_filter_, int _event_id_);
void *tep_filter_reset*(struct tep_event_filter pass:[*]_filter_);
void *tep_filter_free*(struct tep_event_filter pass:[*]_filter_);
char pass:[*]*tep_filter_make_string*(struct tep_event_filter pass:[*]_filter_, int
_event_id_);
int *tep_filter_remove_event*(struct tep_event_filter pass:[*]_filter_, int _event_id_);
int *tep_filter_copy*(struct tep_event_filter pass:[*]_dest_, struct tep_event_filter pass:[*]_source_);
int *tep_filter_compare*(struct tep_event_filter pass:[*]_filter1_, struct tep_event_filter pass:[*]_filter2_);

```

Parsing various data from the records:

```

int *tep_data_type*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
int *tep_data_pid*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
int *tep_data_preempt_count*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);

```

```
int *tep_data_flags*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
```

Command and task related APIs:

```
const char pass:[*]*tep_data_comm_from_pid*(struct tep_handle pass:[*]_tep_, int _pid_);
struct cmdline pass:[*]*tep_data_pid_from_comm*(struct tep_handle pass:[*]_tep_, const char pass:[*]_comm_,
struct cmdline pass:[*]_next_);
int *tep_register_comm*(struct
tep_handle pass:[*]_tep_, const char pass:[*]_comm_, int _pid_);
int *tep_override_comm*(struct tep_handle pass:[*]_tep_, const char pass:[*]_comm_, int _pid_);
bool *tep_is_pid_registered*(struct tep_handle pass:[*]_tep_, int _pid_);
int *tep_cmdline_pid*(struct tep_handle pass:[*]_tep_, struct cmdline pass:[*]_cmdline_);
```

Endian related APIs:

```
int *tep_is_bigendian*(void);
unsigned long long *tep_read_number*(struct tep_handle pass:[*]_tep_, const void pass:[*]_ptr_, int _size_);
bool *tep_is_file_bigendian*(struct tep_handle pass:[*]_tep_);
void *tep_set_file_bigendian*(struct tep_handle pass:[*]_tep_, enum tep_endian _endian_);
bool *tep_is_local_bigendian*(struct tep_handle pass:[*]_tep_);
void *tep_set_local_bigendian*(struct tep_handle pass:[*]_tep_, enum tep_endian _endian_);
```

Control library logs:

```
int *tep_set_loglevel*(enum tep_loglevel _level_);
```

KVM plugin callbacks: (Defined by the application and complied with -rdynamic)

```
const char pass:[*]*tep_plugin_kvm_get_func*(struct
tep_event pass:[*]event,
    struct tep_record pass:[*]record,
    unsigned long long pass:[*]paddr);
void *tep_plugin_kvm_put_func*(const char pass:[*]func);
```

Trace sequences:

```
*#include <trace-seq.h>*
void *trace_seq_init*(struct trace_seq pass:[*]_s_);
void *trace_seq_reset*(struct trace_seq pass:[*]_s_);
void *trace_seq_destroy*(struct trace_seq pass:[*]_s_);
int *trace_seq_printf*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, ...);
int *trace_seq_vprintf*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, va_list _args_);
int *trace_seq_puts*(struct trace_seq pass:[*]_s_, const char pass:[*]_str_);
int *trace_seq_putc*(struct trace_seq pass:[*]_s_, unsigned char _c_);
void *trace_seq_terminate*(struct trace_seq pass:[*]_s_);
int *trace_seq_do_fprintf*(struct trace_seq pass:[*]_s_, FILE pass:[*]_fp_);
int *trace_seq_do_printf*(struct trace_seq pass:[*]_s_);
```

kbuffer parsing:

```
#include <kbuffer.h>
struct kbuffer pass:[*]*kbuffer_alloc*(enum
kbuffer_long_size _size_, enum kbuffer_endian _endian_);
struct kbuffer pass:[*]*kbuffer_dup*(struct kbuffer pass:[*]_kbuf_);
```

```

void *kbuffer_free*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_load_subbuffer*(struct kbuffer pass:[*]_kbuf_, void pass:[*]_subbuffer_);
int *kbuffer_subbuffer_size*(struct kbuffer pass:[*]_kbuf_);
void pass:[*]*kbuffer_subbuffer*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_refresh*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_start_of_data*(struct kbuffer pass:[*]_kbuf_);
unsigned long long *kbuffer_timestamp*(struct kbuffer pass:[*]_kbuf_);
unsigned long long *kbuffer_subbuf_timestamp*(struct kbuffer pass:[*]_kbuf_, void pass:[*]_subbuf_);
void pass:[*]*kbuffer_read_event*(struct kbuffer pass:[*]_kbuf_, unsigned long long pass:[*]_ts_);
void pass:[*]*kbuffer_next_event*(struct kbuffer pass:[*]_kbuf_, unsigned long long pass:[*]_ts_);
void pass:[*]*kbuffer_read_at_offset*(struct kbuffer pass:[*]_kbuf_, int _offset_, unsigned long
long pass:[*]_ts_);
int *kbuffer_missed_events*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_event_size*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_curr_size*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_curr_offset*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_curr_index*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_read_buffer*(struct kbuffer pass:[*]_kbuf_, void pass:[*]_buffer_, int _start_, int _len_);
--

```

DESCRIPTION

The libtraceevent(3) library provides APIs to access kernel tracepoint events, located in the tracefs file system under the events directory.

ENVIRONMENT

[verse]

--

TRACEEVENT_PLUGIN_DIR

Additional plugin directory. All shared object files, located in this directory will be loaded as traceevent plugins.

--

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

trace-seq.h

Header file to include in order to have access to trace sequences related APIs.

Trace sequences are used

to allow a function to call several other functions

to create a string of data to use.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

`*trace-cmd*(1)`

AUTHOR

[verse]

--

`*Steven Rostedt*` <rostedt@goodmis.org>, author of `*libtraceevent*`.

`*Tzvetomir Stoyanov*` <tz.stoyanov@gmail.com>, author of this man page.

--

REPORTING BUGS

Report bugs to <linux-trace-devel@vger.kernel.org>

LICENSE

libtraceevent is Free Software licensed under the GNU LGPL 2.1

RESOURCES

<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

Found in path(s):

`* /libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent.txt`

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

libtraceevent(3)

=====

NAME

tep_data_type, tep_data_pid, tep_data_preempt_count, tep_data_flags -

Extract common fields from a record.

SYNOPSIS

[verse]

--

`*#include <event-parse.h>*`

```
enum *trace_flag_type* {
    _TRACE_FLAG_IRQS_OFF_,
    _TRACE_FLAG_IRQS_NOSUPPORT_,
    _TRACE_FLAG_NEED_RESCHED_,
    _TRACE_FLAG_HARDIRQ_,
    _TRACE_FLAG_SOFTIRQ_,
};
```

```

int *tep_data_type*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
int *tep_data_pid*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
int *tep_data_preempt_count*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
int *tep_data_flags*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
--

```

DESCRIPTION

This set of functions can be used to extract common fields from a record.

The `*tep_data_type()` function gets the event id from the record `_rec_`.

It reads the "common_type" field.

The `_tep_` argument is the trace event parser context.

The `*tep_data_pid()` function gets the process id from the record `_rec_`.

It reads the "common_pid" field. The `_tep_` argument is the trace event parser context.

The `*tep_data_preempt_count()` function gets the preemption count from the record `_rec_`. It reads the "common_preempt_count" field. The `_tep_` argument is the trace event parser context.

The `*tep_data_flags()` function gets the latency flags from the record `_rec_`.

It reads the "common_flags" field. The `_tep_` argument is the trace event parser context. Supported latency flags are:

[verse]

```

--
_TRACE_FLAG_IRQS_OFF_, Interrupts are disabled.
_TRACE_FLAG_IRQS_NOSUPPORT_, Reading IRQ flag is not supported by the architecture.
_TRACE_FLAG_NEED_RESCHED_, Task needs rescheduling.
_TRACE_FLAG_HARDIRQ_, Hard IRQ is running.
_TRACE_FLAG_SOFTIRQ_, Soft IRQ is running.
--

```

RETURN VALUE

The `*tep_data_type()` function returns an integer, representing the event id.

The

`*tep_data_pid()` function returns an integer, representing the process id

The `*tep_data_preempt_count()` function returns an integer, representing the preemption count.

The `*tep_data_flags()` function returns an integer, representing the latency flags. Look at the `_trace_flag_type_` enum for supported flags.

All these functions in case of an error return a negative integer.

EXAMPLE

```
-----
[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
void process_record(struct tep_record *record)
{
    int data;

    data = tep_data_type(tep, record);
    if (data >= 0) {
        /* Got the ID of the event */
    }

    data = tep_data_pid(tep, record);
    if (data >= 0) {
        /* Got the process ID */
    }

    data = tep_data_preempt_count(tep, record);
    if (data >= 0) {
        /* Got the preemption count */
    }

    data = tep_data_flags(tep, record);
    if (data >= 0) {
        /* Got the latency flags */
    }
}
...
--
```

FILES

```
-----
[verse]
--
*event-parse.h*
Header file to include in order to have access
to the library APIs.
*-ltraceevent*
Linker switch to add when building a program that uses the library.
--
```

SEE ALSO

`*libtraceevent*(3)`, `*trace-cmd*(1)`

AUTHOR

[verse]

--

`*Steven Rostedt*` <rostedt@goodmis.org>, author of `*libtraceevent*`.

`*Tzvetomir Stoyanov*` <tz.stoyanov@gmail.com>, author of this man page.

--

REPORTING BUGS

Report bugs to <linux-trace-devel@vger.kernel.org>

LICENSE

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RESOURCES

<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

Found in path(s):

`* /libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-record_parse.txt`

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libtraceevent(3)

=====

NAME

`tep_parse_event`, `tep_parse_format` - Parse the event format information

SYNOPSIS

[verse]

--

`*#include <event-parse.h>*`

`enum tep_errno *tep_parse_event*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_, unsigned long _size_, const char pass:[*]_sys_);`

`enum tep_errno *tep_parse_format*(struct tep_handle pass:[*]_tep_, struct tep_event pass:[*]pass:[*]_eventp_, const char pass:[*]_buf_, unsigned long _size_, const char pass:[*]_sys_);`

--

DESCRIPTION

The `*tep_parse_event()*` function parses the event format and creates an event structure to quickly parse raw data for a given event. The `_tep_` argument is the trace event parser context. The created event structure is stored in the `_tep_` context. The `_buf_` argument is a buffer with `_size_`, where the event format data is. The event format data can be taken from `tracefs/events/.../.../format` files. The `_sys_` argument is the system of the event.

The `*tep_parse_format()*` function does the same as `*tep_parse_event()*`. The only difference is in the extra `_eventp_` argument, where the newly created event structure is returned.

RETURN VALUE

Both `*tep_parse_event()*` and `*tep_parse_format()*` functions return 0 on success, or `TEP_ERRNO__...` in case of an error.

EXAMPLE

```
[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
char *buf;
int size;
struct tep_event *event = NULL;
buf = read_file("/sys/kernel/tracing/events/ftrace/print/format", &size);
if (tep_parse_event(tep, buf, size, "ftrace") != 0) {
    /* Failed to parse the ftrace print format */
}

if (tep_parse_format(tep, &event, buf, size, "ftrace") != 0) {
    /* Failed to parse the ftrace print format */
}
...
--
```

FILES

[verse]

--

`*event-parse.h*`

Header file to include in order to have access to the library APIs.

`*-ltraceevent*`

Linker switch to add when building a program that
uses the library.

--

SEE ALSO

libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

--

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RESOURCES

<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

Found in path(s):

* /libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-parse_event.txt

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libtraceevent(3)

=====

NAME

tep_filter_alloc, tep_filter_free, tep_filter_reset, tep_filter_make_string,
tep_filter_copy, tep_filter_compare, tep_filter_match, tep_event_filtered,
tep_filter_remove_event, tep_filter_strerror, tep_filter_add_filter_str -
Event filter related APIs.

SYNOPSIS

[verse]

--

#include <event-parse.h>

struct tep_event_filter pass:[*]*tep_filter_alloc*(struct tep_handle pass:[*]_tep_);

```

void *tep_filter_free*(struct tep_event_filter pass:[*]_filter_);
void *tep_filter_reset*(struct tep_event_filter pass:[*]_filter_);
enum tep_errno *tep_filter_add_filter_str*(struct tep_event_filter pass:[*]_filter_, const char pass:[*]_filter_str_);
int *tep_event_filtered*(struct tep_event_filter pass:[*]_filter_, int _event_id_);
int *tep_filter_remove_event*(struct tep_event_filter pass:[*]_filter_, int _event_id_);
enum tep_errno *tep_filter_match*(struct tep_event_filter pass:[*]_filter_,
    struct tep_record pass:[*]_record_);
int *tep_filter_copy*(struct tep_event_filter pass:[*]_dest_, struct tep_event_filter pass:[*]_source_);
int *tep_filter_compare*(struct tep_event_filter pass:[*]_filter1_, struct tep_event_filter pass:[*]_filter2_);
char pass:[*]*tep_filter_make_string*(struct tep_event_filter pass:[*]_filter_, int _event_id_);
int *tep_filter_strerror*(struct tep_event_filter pass:[*]_filter_, enum tep_errno _err_, char pass:[*]buf, size_t
    _buflen_);
--

```

DESCRIPTION

Filters can be attached to traced events. They can be used to filter out various events when outputting them. Each event can be filtered based on its parameters, described in the event's format file. This set of functions can be used to create, delete, modify and attach event filters.

The `*tep_filter_alloc()` function creates a new event filter. The `_tep_` argument is the trace event parser context.

The `*tep_filter_free()` function frees an event filter and all resources that it had used.

The `*tep_filter_reset()` function removes all rules from an event filter and resets it.

The `*tep_filter_add_filter_str()` function adds a new rule to the `_filter_`. The `_filter_str_` argument is the filter string, that contains the rule.

The `*tep_event_filtered()` function checks if the event with `_event_id_` has `_filter_`.

The `*tep_filter_remove_event()` function removes a `_filter_` for an event with `_event_id_`.

The `*tep_filter_match()` function tests if a `_record_` matches given `_filter_`.

The `*tep_filter_copy()` function copies a `_source_` filter into a `_dest_` filter.

The `*tep_filter_compare()` function compares two filters - `_filter1_` and `_filter2_`.

The `*tep_filter_make_string()` function constructs a string, displaying the `_filter_` contents for given `_event_id_`.

The `*tep_filter_strerror()` function copies the `_filter_` error buffer into the given `_buf_` with the size `_buflen_`. If the error buffer is empty, in the `_buf_` is copied a string, describing the error `_err_`.

RETURN

VALUE

The `*tep_filter_alloc()` function returns a pointer to the newly created event filter, or NULL in case of an error.

The `*tep_filter_add_filter_str()` function returns 0 if the rule was successfully added or a negative error code. Use `*tep_filter_strerror()` to see actual error message in case of an error.

The `*tep_event_filtered()` function returns 1 if the filter is found for given event, or 0 otherwise.

The `*tep_filter_remove_event()` function returns 1 if the vent was removed, or 0 if the event was not found.

The `*tep_filter_match()` function returns `_tep_errno_`, according to the result:
[verse]

--

`_pass:[TEP_ERRNO__FILTER_MATCH]_` - filter found for event, the record matches.

`_pass:[TEP_ERRNO__FILTER_MISS]_` - filter found for event, the record does not match.

`_pass:[TEP_ERRNO__FILTER_NOT_FOUND]_` - no filter found for record's event.

`_pass:[TEP_ERRNO__NO_FILTER]_` - no rules in the filter.

--

or any other `_tep_errno_`, if an error occurred during the test.

The

`*tep_filter_copy()` function returns 0 on success or -1 if not all rules were copied.

The `*tep_filter_compare()` function returns 1 if the two filters hold the same content, or 0 if they do not.

The `*tep_filter_make_string()` function returns a string, which must be freed with `free()`, or NULL in case of an error.

The `*tep_filter_strerror()` function returns 0 if message was filled successfully, or -1 in case of an error.

EXAMPLE

[source,c]

--


```

#include <event-parse.h>

...
struct tep_handle *tep = tep_alloc();

...
char errstr[200];
int ret;

struct tep_event_filter *filter = tep_filter_alloc(tep);
struct tep_event_filter *filter1 = tep_filter_alloc(tep);
ret = tep_filter_add_filter_str(filter, "sched/sched_wakeup:target_cpu==1");
if(ret < 0) {
    tep_filter_strerror(filter, ret, errstr, sizeof(errstr));
    /* Failed to add a new rule to the filter, the error string is in errstr */
}
if (tep_filter_copy(filter1, filter) != 0) {
    /* Failed to copy filter in filter1 */
}
...
if
    (tep_filter_compare(filter, filter1) != 1) {
        /* Both filters are different */
    }
...
void process_record(struct tep_handle *tep, struct tep_record *record)
{
    struct tep_event *event;
    char *fstring;

    event = tep_find_event_by_record(tep, record);

    if (tep_event_filtered(filter, event->id) == 1) {
        /* The event has filter */
        fstring = tep_filter_make_string(filter, event->id);
        if (fstring != NULL) {
            /* The filter for the event is in fstring */
            free(fstring);
        }
    }

    switch (tep_filter_match(filter, record)) {
    case TEP_ERRNO__FILTER_MATCH:
        /* The filter matches the record */
        break;
    case TEP_ERRNO__FILTER_MISS:
        /* The filter does not match the record */
        break;
    case TEP_ERRNO__FILTER_NOT_FOUND:
        /* No filter found for record's event */

```

```

break;
case TEP_ERRNO__NO_FILTER:
/* There are no rules in the filter */
break
default:
/* An error occurred during the test */
break;
}

if (tep_filter_remove_event(filter, event->id) == 1) {
/* The event was removed
from the filter */
}
}

```

```

...
tep_filter_reset(filter);
...
tep_filter_free(filter);
tep_filter_free(filter1);
...
--

```

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

***libtraceevent*(3), *trace-cmd*(1)**

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of ***libtraceevent***.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

--

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libtraceevent(3)

=====

NAME

tep_read_number - Reads a number from raw data.

SYNOPSIS

[verse]

--

`*#include <event-parse.h>*`

`unsigned long long *tep_read_number*(struct tep_handle pass:[*]_tep_, const void pass:[*]_ptr_, int _size_);`

--

DESCRIPTION

The `*tep_read_number()` function reads an integer from raw data, taking into account the endianness of the raw data and the current host. The `_tep_` argument is the trace event parser context. The `_ptr_` is a pointer to the raw data, where the integer is, and the `_size_` is the size of the integer.

RETURN VALUE

The `*tep_read_number()` function returns the integer in the byte order of the current host. In case of an error, 0 is returned.

EXAMPLE

[source,c]

--

`#include <event-parse.h>`

...

`struct tep_handle *tep = tep_alloc();`

...

```

void process_record(struct tep_record *record)
{
    int offset = 24;
    int data = tep_read_number(tep,
    record->data + offset, 4);

    /* Read the 4 bytes at the offset 24 of data as an integer */
}
...
--

```

FILES

```

-----
[verse]
--
*event-parse.h*
Header file to include in order to have access to the library APIs.
*-ltraceevent*
Linker switch to add when building a program that uses the library.
--

```

SEE ALSO

```

-----
*libtraceevent*(3), *trace-cmd*(1)

```

AUTHOR

```

-----
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
--

```

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libtraceevent(3)

=====

NAME

tep_register_event_handler, tep_unregister_event_handler - Register /
unregisters a callback function to parse an event information.

SYNOPSIS

[verse]

--

```
*#include <event-parse.h>
```

```
enum *tep_reg_handler* {  
    _TEP_REGISTER_SUCCESS_,  
    _TEP_REGISTER_SUCCESS_OVERWRITE_,  
};
```

```
int *tep_register_event_handler*(struct tep_handle pass:[*]_tep, int _id, const char pass:[*]_sys_name, const  
char pass:[*]_event_name, tep_event_handler_func _func, void pass:[*]_context);  
int *tep_unregister_event_handler*(struct tep_handle pass:[*]tep, int id, const char pass:[*]sys_name, const char  
pass:[*]event_name, tep_event_handler_func func, void pass:[*]_context);
```

```
typedef int (*pass:[*]tep_event_handler_func*)(struct trace_seq pass:[*]s, struct tep_record pass:[*]record, struct  
tep_event pass:[*]event, void pass:[*]context);
```

--

DESCRIPTION

The `*tep_register_event_handler()`

function registers a handler function,

which is going to be called to parse the information for a given event.

The `_tep_` argument is the trace event parser context. The `_id_` argument is
the id of the event. The `_sys_name_` argument is the name of the system,
the event belongs to. The `_event_name_` argument is the name of the event.

If `_id_` is ≥ 0 , it is used to find the event, otherwise `_sys_name_` and
`_event_name_` are used. The `_func_` is a pointer to the function, which is going
to be called to parse the event information. The `_context_` argument is a pointer
to the context data, which will be passed to the `_func_`. If a handler function
for the same event is already registered, it will be overridden with the new
one. This mechanism allows a developer to override the parsing of a given event.
If for some reason the default print format is not sufficient, the developer
can register a function for an event to be used to parse the data instead.

The `*tep_unregister_event_handler()` function

unregisters the handler function,

previously registered with `*tep_register_event_handler()`. The `_tep_` argument

is the trace event parser context. The `_id_`, `_sys_name_`, `_event_name_`, `_func_`, and `_context_` are the same arguments, as when the callback function `_func_` was registered.

The `_tep_event_handler_func_` is the type of the custom event handler function. The `_s_` argument is the trace sequence, it can be used to create a custom string, describing the event. A `_record_` to get the event from is passed as input parameter and also the `_event_` - the handle to the record's event. The `_context_` is custom context, set when the custom event handler is registered.

RETURN VALUE

The `*tep_register_event_handler()` function returns `_TEP_REGISTER_SUCCESS_` if the new handler is registered successfully or `_TEP_REGISTER_SUCCESS_OVERWRITE_` if an existing handler is overwritten. If there is not enough memory to complete the registration, `TEP_ERRNO__MEM_ALLOC_FAILED` is returned.

The

`*tep_unregister_event_handler()` function returns 0 if `_func_` was removed successfully or, -1 if the event was not found.

The `_tep_event_handler_func_` should return -1 in case of an error, or 0 otherwise.

EXAMPLE

[source,c]

--

```
#include <event-parse.h>
```

```
#include <trace-seq.h>
```

...

```
struct tep_handle *tep = tep_alloc();
```

...

```
int timer_expire_handler(struct trace_seq *s, struct tep_record *record,  
    struct tep_event *event, void *context)
```

```
{
```

```
    trace_seq_printf(s, "hrtimer=");
```

```
    if (tep_print_num_field(s, "0x%llx", event, "timer", record, 0) == -1)
```

```
        tep_print_num_field(s, "0x%llx", event, "hrtimer", record, 1);
```

```
    trace_seq_printf(s, " now=");
```

```
    tep_print_num_field(s, "%llu", event, "now", record, 1);
```

```
    tep_print_func_field(s, " function=%s", event, "function", record, 0);
```

```

return 0;
}
...
int ret;

ret = tep_register_event_handler(tep, -1, "timer", "hrtimer_expire_entry",
    timer_expire_handler, NULL);
if (ret < 0) {
    char buf[32];

    tep_strerror(tep, ret, buf, 32)
    printf("Failed
to register handler for hrtimer_expire_entry: %s\n", buf);
} else {
    switch (ret) {
    case TEP_REGISTER_SUCCESS:
        printf ("Registered handler for hrtimer_expire_entry\n");
        break;
    case TEP_REGISTER_SUCCESS_OVERWRITE:
        printf ("Overwrote handler for hrtimer_expire_entry\n");
        break;
    }
}
...
ret = tep_unregister_event_handler(tep, -1, "timer", "hrtimer_expire_entry",
    timer_expire_handler, NULL);
if ( ret )
    printf ("Failed to unregister handler for hrtimer_expire_entry\n");

```

--

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

trace-seq.h

Header file to include in order to have access to trace sequences related APIs. Trace sequences are used to allow a function to call several other functions to create a string of data to use.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

***libtraceevent*(3), *trace-cmd*(1)**

AUTHOR

[verse]

--

*Steven

Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

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libtraceevent(3)

=====

NAME

tep_strerror - Returns a string describing regular errno and tep error number.

SYNOPSIS

[verse]

--

#include <event-parse.h>

int *tep_strerror*(struct tep_handle pass:[*]_tep_, enum tep_errno _errnum_, char pass:[*]_buf_, size_t _buflen_);

--

DESCRIPTION

The *tep_strerror()* function converts tep error number into a human readable string.

The _tep_ argument is trace event parser context. The _errnum_ is a regular errno, defined in errno.h, or a tep error number. The string, describing this error number is copied in the _buf_ argument. The _buflen_ argument is

the size of the `_buf_`.

It as a thread safe wrapper around `strerror_r()`. The library function has two different behaviors - POSIX and GNU specific. The `*tep_strerror()*` API always behaves as the POSIX version - the error string is copied in the user supplied buffer.

RETURN VALUE

The

`*tep_strerror()*` function returns 0, if a valid `_errnum_` is passed and the string is copied into `_buf_`. If `_errnum_` is not a valid error number, -1 is returned and `_buf_` is not modified.

EXAMPLE

[source,c]

--

```
#include <event-parse.h>
```

...

```
struct tep_handle *tep = tep_alloc();
```

...

```
char buf[32];
```

```
char *pool = calloc(1, 128);
```

```
if (tep == NULL) {
```

```
    tep_strerror(tep, TEP_ERRNO__MEM_ALLOC_FAILED, buf, 32);
```

```
    printf ("The pool is not initialized, %s", buf);
```

```
}
```

...

--

FILES

[verse]

--

`*event-parse.h*`

Header file to include in order to have access to the library APIs.

`*-ltraceevent*`

Linker switch to add when building a program that uses the library.

--

SEE ALSO

`*libtraceevent*(3)`, `*trace-cmd*(1)`

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

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libtraceevent(3)

=====

NAME

tep_get_long_size, tep_set_long_size - Get / set the size of a long integer on

the machine, where the trace is generated, in bytes

SYNOPSIS

```
-----  
[verse]  
--  
*#include <event-parse.h>  
  
int *tep_get_long_size*(struct tep_handle pass:[*]_tep_);  
void *tep_set_long_size*(struct tep_handle pass:[*]_tep_, int _long_size_);  
--
```

DESCRIPTION

The `*tep_get_long_size()` function returns the size of a long integer on the machine, where the trace is generated. The `_tep_` argument is trace event parser context.

The `*tep_set_long_size()` function sets the size of a long integer on the machine, where the trace is generated. The `_tep_` argument is trace event parser context. The `_long_size_` is the size of a long integer, in bytes.

RETURN VALUE

The `*tep_get_long_size()` function returns the size of a long integer on the machine, where the trace is generated, in bytes.

EXAMPLE

```
-----  
[source,c]  
--  
#include <event-parse.h>  
...  
struct tep_handle *tep = tep_alloc();  
...  
tep_set_long_size(tep, 4);  
...  
int long_size = tep_get_long_size(tep);  
...  
--
```

FILES

```
-----  
[verse]  
--  
*event-parse.h*  
Header file to include in order to have access to the library APIs.  
*-ltraceevent*
```

Linker switch to add when building a program that uses the library.

--

SEE ALSO

libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

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libtraceevent(3)

=====

NAME

tep_event_common_fields, tep_event_fields - Get a list of fields for an event.

SYNOPSIS

[verse]

--

#include <event-parse.h>

struct tep_format_field pass:[*]pass:[*]*tep_event_common_fields*(struct tep_event pass:[*]_event_);

struct tep_format_field pass:[*]pass:[*]*tep_event_fields*(struct tep_event pass:[*]_event_);

--

DESCRIPTION

The `*tep_event_common_fields()` function returns an array of pointers to common fields for the `_event_`. The array is allocated in the function and must be freed by `free()`. The last element of the array is `NULL`.

The `*tep_event_fields()` function returns an array of pointers to event specific fields for the `_event_`. The array is allocated in the function and must be freed by `free()`. The last element of the array is `NULL`.

RETURN VALUE

Both `*tep_event_common_fields()` and `*tep_event_fields()` functions return an array of pointers to `tep_format_field` structures in case of success, or `NULL` in case of an error.

EXAMPLE

```
[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
int i;
struct tep_format_field **fields;
struct tep_event *event = tep_find_event_by_name(tep, "kvm", "kvm_exit");
if (event != NULL) {
    fields = tep_event_common_fields(event);
    if (fields != NULL) {
        i = 0;
        while (fields[i]) {
            /*
             * walk through the list of the common fields
             * of the kvm_exit event
             */
            i++;
        }
        free(fields);
    }
    fields = tep_event_fields(event);
    if (fields != NULL) {
        i = 0;
        while (fields[i]) {
            /*
             * walk through the list of the event specific
             * fields of the kvm_exit event
             */

```

```

    i++;
}
free(fields);
}
}
...
--

```

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

***libtraceevent*(3),**

***trace-cmd*(1)**

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of ***libtraceevent***.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

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libtraceevent(3)

=====

NAME

tep_get_event, tep_get_first_event, tep_get_events_count - Access events.

SYNOPSIS

[verse]

--

```
*#include <event-parse.h>*
```

```
struct tep_event pass:[*]*tep_get_event*(struct tep_handle pass:[*]_tep_, int _index_);
```

```
struct tep_event pass:[*]*tep_get_first_event*(struct tep_handle pass:[*]_tep_);
```

```
int *tep_get_events_count*(struct tep_handle pass:[*]_tep_);
```

--

DESCRIPTION

The `*tep_get_event()` function returns a pointer to event at the given `_index_`.

The `_tep_` argument is trace event parser context, the `_index_` is the index of the requested event.

The `*tep_get_first_event()` function returns a pointer to the first event.

As events are stored in an array, this function returns the pointer to the beginning of the array. The `_tep_` argument is trace event parser context.

The `*tep_get_events_count()` function returns the number of the events in the array. The `_tep_`

argument is trace event parser context.

RETURN VALUE

The `*tep_get_event()` returns a pointer to the event located at `_index_`.

NULL is returned in case of error, in case there are no events or `_index_` is out of range.

The `*tep_get_first_event()` returns a pointer to the first event. NULL is returned in case of error, or in case there are no events.

The `*tep_get_events_count()` returns the number of the events. 0 is returned in case of error, or in case there are no events.

EXAMPLE

[source,c]

--

```
#include <event-parse.h>
```

...


```

struct tep_handle *tep = tep_alloc();
...
int i,count = tep_get_events_count(tep);
struct tep_event *event, *events = tep_get_first_event(tep);

if (events == NULL) {
    /* There are no events */
} else {
    for (i = 0; i < count; i++) {
        event = (events+i);
        /* process events[i] */
    }

    /* Get the last event */
    event = tep_get_event(tep, count-1);
}
--

```

FILES

[verse]

--

event-parse.h

Header file to include in order to have access
to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

***libtraceevent*(3)**, ***trace-cmd*(1)**

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of ***libtraceevent***.

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libtraceevent(3)

=====

NAME

tep_parse_saved_cmdlines, tep_parse_printk_formats, tep_parse_kallsyms

- Parsing functions to load mappings

SYNOPSIS

[verse]

--

```
*#include <event-parse.h>*
```

```
int *tep_parse_saved_cmdlines*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);
```

```
int *tep_parse_printk_formats*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);
```

```
int *tep_parse_kallsyms*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);
```

--

DESCRIPTION

`*tep_parse_saved_cmdlines()*` is a helper function to parse content in the tracefs file system of the "saved_cmdlines" file (stored in a string buffer passed in by `_buf_`) and loads the mapping of the process IDs (pid) to the comm names in the `_tep_` handler. The events store the pid and this is used to be able to show the process names associated to those process ids. It parses the string `_buf_` that holds the content of `saved_cmdlines` and ends with a nul character (`'\0'`).

`*tep_parse_printk_formats()*` is a helper function to parse content in the tracefs file system of the "printk_formats" file (stored in a string buffer passed in by `_buf_`) and loads the mapping of addresses of strings that may be referenced by events. Events only store the address of constant strings in the kernel, and the mapping of their address to the string is exported to user space in the `printk_formats` file. It parses the string `_buf_` that holds the content of `printk_formats` and ends with a nul character (`'\0'`).

`*tep_parse_kallsyms()*` is a helper function to parse the Linux kernel `/proc/kallsyms` format (stored in a string buffer passed in by `_buf_`) and load the functions into the `_tep_` handler such that function IP addresses can be mapped to their name when

parsing events with %pS in the print format field. It parses the string `_buf_` that holds the content of `/proc/kallsyms` and ends with a nul character (`'\0'`).

RETURN VALUE

The

`*tep_parse_saved_cmdlines*()` function returns 0 in case of success, or -1 in case of an error.

The `*tep_parse_printk_formats*()` function returns 0 in case of success, or -1 in case of an error.

The `*tep_parse_kallsyms*()` function returns 0 in case of success, or -1 in case of an error.

EXAMPLE

[source,c]

--

...

```
#include <event-parse.h>
```

```
#include <tracefs.h>
```

```
#include <stdlib.h>
```

```
int load_cmdlines(struct tep_handle *tep)
{
    char *buf = NULL;
    int r;

    buf = tracefs_instance_file_read(NULL, "saved_cmdlines", NULL);
    if (!buf)
        return -1;
    r = tep_parse_saved_cmdlines(tep, buf);
    free(buf);
    return r;
}
```

```
int load_print_strings(struct tep_handle *tep)
{
    char *buf = NULL;
    int r;

    buf = tracefs_instance_file_read(NULL, "printk_formats", NULL);
    if (!buf)
        return -1;
    r = tep_parse_printk_formats(tep, buf);
    free(buf);
    return r;
}
```

```

}

int load_kallsyms(struct
tep_handle *tep)
{
    char *line = NULL;
    char *buf = NULL;
    size_t sz = 0;
    FILE *fp;
    int len = 0;
    int r;

    fp = fopen("/proc/kallsyms", "r");
    while ((r = getline(&line, &sz, fp)) >= 0) {
        buf = realloc(buf, len + r + 1);
        memcpy(buf + len, line, r);
        len += r;
    }
    free(line);
    fclose(fp);
    if (!buf)
        return -1;
    buf[len] = 0;

    r = tep_parse_kallsyms(tep, buf);
    free(buf);
    return r;
}

...
--

```

FILES

[verse]

--

event-parse.h

Header file to include in order to have access to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

libtraceevent(3), *trace-cmd*(1), *tep_register_comm*(3), *tep_register_function*(3),
tep_register_print_string(3)

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.

*Tzvetomir

Stoyanov* <tz.stoyanov@gmail.com>, coauthor of *libtraceevent*.

--

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libtraceevent(3)

=====

NAME

tep_is_file_bigendian, tep_set_file_bigendian - Get / set the endianness of the raw data being accessed by the tep handler.

SYNOPSIS

[verse]

--

#include <event-parse.h>

```
enum *tep_endian* {  
    TEP_LITTLE_ENDIAN = 0,  
    TEP_BIG_ENDIAN  
};
```

```
bool *tep_is_file_bigendian*(struct tep_handle pass:[*]_tep_);
```

```
void *tep_set_file_bigendian*(struct tep_handle pass:[*]_tep_, enum tep_endian _endian_);
```

--

DESCRIPTION

The *tep_is_file_bigendian()* function gets the endianness of the raw data,

being accessed by the tep handler. The `_tep_` argument is trace event parser context.

The `*tep_set_file_bigendian()` function sets the endianness of raw data being accessed by the tep handler. The `_tep_` argument is trace event parser context.
[verse]

--

The `_endian_` argument is the endianness:

`_TEP_LITTLE_ENDIAN_` - the raw data is in little endian format,

`_TEP_BIG_ENDIAN_` - the
raw data is in big endian format.

--

RETURN VALUE

The `*tep_is_file_bigendian()` function returns true if the data is in bigendian format, false otherwise.

EXAMPLE

[source,c]

--

```
#include <event-parse.h>
```

...

```
struct tep_handle *tep = tep_alloc();
```

...

```
tep_set_file_bigendian(tep, TEP_LITTLE_ENDIAN);
```

...

```
if (tep_is_file_bigendian(tep)) {
```

```
    /* The raw data is in big endian */
```

```
} else {
```

```
    /* The raw data is in little endian */
```

```
}
```

--

FILES

[verse]

--

`*event-parse.h*`

Header file to include in order to have access to the library APIs.

`*-ltraceevent*`

Linker switch to add when building a program that uses the library.

--

SEE ALSO

`*libtraceevent*(3)`, `*trace-cmd*(1)`

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

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libtraceevent(3)

=====

NAME

tep_is_bigendian, tep_is_local_bigendian, tep_set_local_bigendian - Get / set the endianness of the local machine.

SYNOPSIS

[verse]

--

```
*#include <event-parse.h>*
```

```
enum *tep_endian* {  
    TEP_LITTLE_ENDIAN = 0,  
    TEP_BIG_ENDIAN  
};
```

```
int *tep_is_bigendian*(void);
```

```
bool *tep_is_local_bigendian*(struct tep_handle pass:[*]_tep_);
```

```
void *tep_set_local_bigendian*(struct tep_handle pass:[*]_tep_, enum tep_endian _endian_);
```

--

DESCRIPTION

The `*tep_is_bigendian()` gets the endianness of the machine, executing the function.

The `*tep_is_local_bigendian()` function gets the endianness of the local machine, saved in the `_tep_handler`. The `_tep_` argument is the trace event parser context. This API is a bit faster than `*tep_is_bigendian()`, as it returns cached endianness of the local machine instead of checking it each time.

The `*tep_set_local_bigendian()` function sets the endianness of the local machine in the `_tep_handler`. The `_tep_` argument is trace event parser context. The `_endian_` argument is the endianness:

[verse]

--

`_TEP_LITTLE_ENDIAN_` - the machine is little endian,

`_TEP_BIG_ENDIAN_` - the machine is big endian.

--

RETURN VALUE

The `*tep_is_bigendian()` function returns non zero if the endianness of the machine, executing the code, is big endian and zero otherwise.

The `*tep_is_local_bigendian()` function returns true, if the endianness of the local machine, saved in the `_tep_handler`, is big endian, or false otherwise.

EXAMPLE

[source,c]

--

```
#include <event-parse.h>
```

...

```
struct tep_handle *tep = tep_alloc();
```

...

```
if (tep_is_bigendian())
```

```
    tep_set_local_bigendian(tep, TEP_BIG_ENDIAN);
```

```
else
```

```
    tep_set_local_bigendian(tep, TEP_LITTLE_ENDIAN);
```

...

```
if (tep_is_local_bigendian(tep))
```

```
    printf("This machine you are running on is bigendian\n");
```

```
else
```

```
    printf("This machine you are running on is little endian\n");
```

--

FILES

[verse]

--

event-parse.h

Header

file to include in order to have access to the library APIs.

-ltraceevent

Linker switch to add when building a program that uses the library.

--

SEE ALSO

libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.

--

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/*

* FreeBSD strace list

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{ TARGET_FREEBSD_NR__acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %d)", NULL, NULL },
},
{ TARGET_FREEBSD_NR__acl_delete_fd,
  "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_fd, "__acl_get_fd", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_fd, "__acl_set_fd", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__getcwd, "__getcwd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__sysctl,
  "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "__umtx_op", "%s(%d, %d, %d, %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept4, "accept4", "%s(%d,%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bindat, "bindat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_enter, "cap_enter", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_fcntl_get, "cap_fcntl_get", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_fcntl_limit, "cap_fcntl_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_getmode, "cap_getmode", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_ioctl_get, "cap_ioctl_get", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_ioctl_limit,
  "cap_ioctl_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_rights_limit, "cap_rights_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chflagsat, "chflagsat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connectat, "connectat", "%s(%d,%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_cpuset_getdomain, "cpuset_getdomain", NULL, NULL,
  NULL },
{ TARGET_FREEBSD_NR_cpuset_setdomain, "cpuset_setdomain", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
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{
  TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %#x, %d)", NULL, NULL },

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{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl",
NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fdatasync, "fdatasync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fhstat, "freebsd11_fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fhstatfs, "freebsd11_fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstat, "freebsd11_fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstatat,
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{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimens, "futimens", "%s(%d,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_getdirentries, "freebsd11_getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_getfsstat, "freebsd11_getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid",
"%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getrandom, "getrandom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname,
  "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_kevent, "freebsd11_kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\\\", \"%s\\\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\\\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_lstat,
  "freebsd11_lstat", "%s(\"%s\\\", %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\\\", %#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknodat, "mknodat", "%s(%d, \"%s\\\", %#o, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknod, "freebsd11_mknod", "%s(\"%s\\\", %#o, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknodat, "freebsd11_mknodat", "%s(%d, \"%s\\\", %#o, %#x)", NULL,
  NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl,
  "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d,\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\",%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd10_pipe, "freebsd10_pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pipe2, "pipe2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_posix_fallocate,
  "posix_fallocate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork,
  "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d,%d,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_get_priority_max, "sched_get_priority_max", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_get_priority_min, "sched_get_priority_min", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid",
  NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl",
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{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_stat, "freebsd11_stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_statfs, "freebsd11_statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink",
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{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, print_sysarch, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_create, "timer_create", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_delete, "timer_delete", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_settime, "timer_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_gettime, "timer_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_getoverrun, "timer_getoverrun", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
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```



```
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimensat, "utimensat", "%s(%d,%s,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait6, "wait6", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_posix_openpt, "posix_openpt", "%s(%d)", NULL,
NULL },
```

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References

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TARGET_ARCH=x86_64

TARGET_BASE_ARCH=i386

TARGET_XML_FILES= gdb-xml/i386-64bit.xml

Index: debug.c

=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v

retrieving revision 1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- debug.c 7 Sep 2007 10:01:21 -0000 1.1

+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3

@@ -52,7 +52,11 @@

void X86EMU_trace_regs (void)

```
{
    if (DEBUG_TRACE()) {
-       x86emu_dump_regs();
+       if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+           x86emu_dump_xregs();
+       } else {
+           x86emu_dump_regs();
+       }
    }
    if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
        printk("%04x:%04x ", M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
        for (i=0; i< M.x86.enc_pos; i++) {
            sprintf(buf1+2*i, "%02x", fetch_data_byte_abs(s,o+i));
        }
-       printk("%-20s", buf1);
+       printk("%-20s ", buf1);
    }
}
```

static void print_decoded_instruction (void)

Index: ops2.c

=====
RCS file:

/cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v

retrieving revision 1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1

+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3

@@ -149,8 +149,69 @@

target += (s16) M.x86.R_IP;

```

    DECODE_PRINTF2("%04x\n", target);
    TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
        M.x86.R_IP = (u16)target;
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+   }
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
+}
+
+/******
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+*****/
+s32 x86emu_bswap(s32 reg)
+{
+   // perform the byte swap
+   s32 temp = reg;
+   reg = (temp & 0xFF000000) >> 24;
+   reg |= (temp & 0xFF0000) >> 8;
+   reg |= (temp & 0xFF00) << 8;
+   reg |= (temp & 0xFF) << 24;
+   return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+
+   /* byte swap 32 bit register */
+   START_OF_INSTR();
+   DECODE_PRINTF("BSWAP\t");
+   switch (op2) {
+       case 0xc8:
+           DECODE_PRINTF("EAX\n");
+           M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+           break;
+       case 0xc9:
+           DECODE_PRINTF("ECX\n");
+           M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+           break;
+       case 0xca:
+           DECODE_PRINTF("EDX\n");
+           M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+           break;
+       case 0xcb:
+           DECODE_PRINTF("EBX\n");
+           M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);

```



```

+   break;
+   case 0xcc:
+       DECODE_PRINTF("ESP\n");
+       M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+       break;
+   case 0xcd:
+       DECODE_PRINTF("EBP\n");
+       M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+       break;
+   case 0xce:
+       DECODE_PRINTF("ESI\n");
+       M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+       break;
+   case 0xcf:
+       DECODE_PRINTF("EDI\n");
+       M.x86.R_EDI
+       = x86emu_bswap(M.x86.R_EDI);
+       break;
+   }
+   TRACE_AND_STEP();
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
+   }
@@ -1702,14 +1763,14 @@
/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op,
/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xc8 */ x86emuOp2_bswap,
/* 0xc9 */ x86emuOp2_bswap,
/* 0xca */ x86emuOp2_bswap,
/* 0xcb */ x86emuOp2_bswap,
/* 0xcc */ x86emuOp2_bswap,
/* 0xcd */ x86emuOp2_bswap,
/* 0xce */ x86emuOp2_bswap,
/* 0xcf */ x86emuOp2_bswap,

/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,
Index:

```

ops.c

=====

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v

retrieving revision 1.1

diff -u -u -r1.1 ops.c

--- ops.c 7 Sep 2007 10:01:21 -0000 1.1

+++ ops.c 20 Mar 2008 16:52:00 -0000

@@ -1061,7 +1061,11 @@

```
    imm = (s8)fetch_byte_imm();
    DECODE_PRINTF2("PUSH\t%d\n", imm);
    TRACE_AND_STEP();
```

```
-    push_word(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
+    } else {
+        push_word(imm);
+    }
```

```
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
```

@@ -1256,8 +1260,10 @@

```
    target = (u16)(M.x86.R_IP + (s16)offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
```

```
-    if (cond)
+    if (cond) {
+        M.x86.R_IP = target;
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
```

@@ -2516,9 +2522,11 @@

```
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE))
    {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
```

```
    while (count--) {
```

@@ -2526,6 +2534,8 @@

```

        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+       break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2559,9 +2569,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode
& SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+       if (M.x86.mode & SYSMODE_32BIT_REP)
+       M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2574,6 +2586,8 @@
    }
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+       break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2598,16 +2612,21 @@

    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(val1, val2);
-       M.x86.R_CX -= 1;
+       if (M.x86.mode & SYSMODE_32BIT_REP)
+
            M.x86.R_ECX -= 1;
+       else

```

```

+     M.x86.R_CX -= 1;
      M.x86.R_SI += inc;
      M.x86.R_DI += inc;
      if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
      if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+     if (M.x86.intr & INTR_HALTED)
+     break;
  }
  M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@
  TRACE_AND_STEP();
  if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
      if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val1 = fetch_data_long(M.x86.R_SI);
        val2 = fetch_data_long_abs(M.x86.R_ES,
M.x86.R_DI);
@@ -2655,11 +2674,16 @@
        val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_word((u16)val1, (u16)val2);
      }
-    M.x86.R_CX -= 1;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+      M.x86.R_ECX -= 1;
+    else
+      M.x86.R_CX -= 1;
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+    if (M.x86.intr & INTR_HALTED)
+    break;
  }
  M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
  TRACE_AND_STEP();
  if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /*

```

```

move them until (E)CX is ZERO. */
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-       M.x86.R_CX -= 1;
+       if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX -= 1;
+       else
+           M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2783,9 +2812,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+       M.x86.R_ECX = 0;

        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2795,6 +2826,8 @@
        store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
    }
    M.x86.R_DI += inc;
+   if (M.x86.intr & INTR_HALTED)
+       break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2817,11 +2850,16 @@
    inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-           M.x86.R_CX -= 1;

```

```

+     if (M.x86.mode & SYSMODE_32BIT_REP)
+         M.x86.R_ECX -= 1;
+     else
+         M.x86.R_CX -= 1;
+     M.x86.R_SI += inc;
+     if (M.x86.intr & INTR_HALTED)
+
+         break;
+     }
+     M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
+ } else {
@@ -2859,9 +2897,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2871,6 +2911,8 @@
        M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    }
    M.x86.R_SI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2894,26 +2936,36 @@
    inc = 1;
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /*
REPE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
-            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
        }
    }

```

```

+     else
+         M.x86.R_CX -= 1;
+         M.x86.R_DI += inc;
+         if (ACCESS_FLAG(F_ZF) == 0)
+             break;
+         if (M.x86.intr & INTR_HALTED)
+             break;
+     }
+     M.x86.mode &= ~SYSMODE_PREFIX_REPE;
+ } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
+     /* REPNE */
-     /* move them until CX is ZERO. */
-     while (M.x86.R_CX != 0) {
+     /* move them until (E)CX is ZERO. */
+     while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

+         val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
+         cmp_byte(M.x86.R_AL, val2);
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+         else
+             M.x86.R_CX -= 1;
+         M.x86.R_DI += inc;
+         if (ACCESS_FLAG(F_ZF))
+             break;      /* zero flag set means equal */
+         if (M.x86.intr & INTR_HALTED)
+             break;
+     }
+     M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
+ } else {
@@ -2951,8 +3003,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
+                cmp_long(M.x86.R_EAX,
val);
@@ -2960,16 +3012,21 @@
+                val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
+                cmp_word(M.x86.R_AX, (u16)val);
+            }
-            M.x86.R_CX -= 1;

```

```

+     if (M.x86.mode & SYSMODE_32BIT_REP)
+         M.x86.R_ECX -= 1;
+     else
+         M.x86.R_CX -= 1;
+     M.x86.R_DI += inc;
+     if (ACCESS_FLAG(F_ZF) == 0)
+         break;
+     if (M.x86.intr & INTR_HALTED)
+         break;
+ }
+ M.x86.mode &= ~SYSMODE_PREFIX_REPE;
+ } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
+     /* REPNE */
-     /* move them until CX is ZERO. */
-     while (M.x86.R_CX != 0) {
+     /* move them until (E)CX is ZERO. */
+     while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+         if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+             val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
+             cmp_long(M.x86.R_EAX,
val);
@@ -2977,10 +3034,15 @@
+             val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
+             cmp_word(M.x86.R_AX, (u16)val);
+         }
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+         else
+             M.x86.R_CX -= 1;
+         M.x86.R_DI += inc;
+         if (ACCESS_FLAG(F_ZF))
+             break; /* zero flag set means equal */
+         if (M.x86.intr & INTR_HALTED)
+             break;
+     }
+     M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
+ } else {
@@ -3238,9 +3300,9 @@
+     DECODE_PRINTF("RET\t");
+     imm = fetch_word_imm();
+     DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
+     M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
+     M.x86.R_SP += imm;
+     DECODE_CLEAR_SEGOVR();

```



```

    END_OF_INSTR();
@@ -3254,9 +3316,9
@@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
    DECODE_PRINTF("RETF\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&

```

```

!ACCESS_FLAG(F_ZF))    /* (E)CX != 0 and !ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4041,8 +4106,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF))    /* CX != 0 and ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+   M.x86.R_ECX -= 1;
+   else
+   M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF))    /* (E)CX != 0 and ZF */
        M.x86.R_IP = ip;
        DECODE_CLEAR_SEGOVR();
        END_OF_INSTR();
@@ -4062,8 +4130,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0)
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+   M.x86.R_ECX -= 1;
+   else
+   M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)    /* (E)CX != 0 */
        M.x86.R_IP = ip;
        DECODE_CLEAR_SEGOVR();
        END_OF_INSTR();
@@ -4085,8 +4156,10 @@
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-   if (M.x86.R_CX == 0)
+   if (M.x86.R_CX == 0) {
        M.x86.R_IP = target;
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+   }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
    ip = (s16)fetch_word_imm();
    ip += (s16)M.x86.R_IP;

```

```

    DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs,
M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:", cs);
    DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = ip;
    M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
    TRACE_AND_STEP();
    M.x86.R_IP = target;
    DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
    break;
    case 4:      /* jmp word ptr ... */
        destval = fetch_data_word(destoffset);
+       JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
        TRACE_AND_STEP();
        M.x86.R_IP = destval;
        break;

```

```

        case 5:      /* jmp far ptr ... */
            destval = fetch_data_word(destoffset);
            destval2 = fetch_data_word(destoffset + 2);
+       JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
            TRACE_AND_STEP();
            M.x86.R_IP = destval;
            M.x86.R_CS = destval2;

```

Index: prim_ops.c

=====

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v

retrieving revision

1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1

+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3

@@ -1921,7 +1921,7 @@

void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)

{

#ifdef __HAS_LONG_LONG__

- s64 res = (s64)d * (s64)s;

+ s64 res = (s64)(s32)d * (s64)(s32)s;

 *res_lo = (u32)res;

 *res_hi = (u32)(res >> 32);

@@ -2013,7 +2013,7 @@

void mul_long(u32 s)

{

#ifdef __HAS_LONG_LONG__

- u64 res = (u32)M.x86.R_EAX * (u32)s;

+ u64 res = (u64)M.x86.R_EAX * s;

 M.x86.R_EAX = (u32)res;

 M.x86.R_EDX = (u32)(res >> 32);

@@ -2312,16 +2312,15 @@

}

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {

 /* dont care whether REPE or REPNE */

- /* in until CX is ZERO. */

- u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?

+ /* in until (E)CX is ZERO. */

+ u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?

 M.x86.R_ECX : M.x86.R_CX);

-

 while (count--){

 single_in(size);

 M.x86.R_DI += inc;

 }

```

    M.x86.R_CX = 0;
-   if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+   if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* out until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+        /* out until (E)CX is ZERO. */
+        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
            M.x86.R_ECX : M.x86.R_CX);
        while (count-- > 0) {
            single_out(size);
            M.x86.R_SI += inc;
        }
        M.x86.R_CX = 0;
-        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        if (M.x86.mode & SYSMODE_32BIT_REP) {
            M.x86.R_ECX = 0;
        }
        M.x86.mode
        &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#ifdef IN_MODULE
#include "xf86_ansi.h"
@@ -220,7 +215,7 @@
{

```

```

DB(if (DEBUG_IO_TRACE())
    printk("inb %#04x \n", addr);)
- return inb(addr);
+ return 0;
}

```

```

/*****

```

```

@@ -235,7 +230,7 @@
{
    DB(if (DEBUG_IO_TRACE())
        printk("inw %#04x \n", addr);)
- return inw(addr);
+ return 0;
}

```

```

/*****

```

```

@@ -250,7 +245,7 @@
{
    DB(if (DEBUG_IO_TRACE())
        printk("inl %#04x \n", addr);)
- return inl(addr);
+ return 0;
}

```

```

/*****

```

```

@@ -264,7 +259,6 @@
{
    DB(if (DEBUG_IO_TRACE())
        printk("outb %#02x -> %#04x \n", val, addr);)
- outb(val, addr);
return;
}

```

```

@@ -279,7 +273,6 @@
{
    DB(if (DEBUG_IO_TRACE())
        printk("outw %#04x -> %#04x \n", val, addr);)
- outw(val, addr);
return;
}

```

```

@@ -295,7 +288,6 @@
    DB(if (DEBUG_IO_TRACE())
        printk("outl %#08x -> %#04x \n", val, addr);)

- outl(val, addr);
return;
}

```

@@ -405,6 +397,6 @@

```
void X86EMU_setMemBase(void *base, size_t size)
```

```
{
- M.mem_base = (int) base;
+ M.mem_base = (unsigned long) base;
  M.mem_size = size;
}
```

Index: include/x86emu/debug.h

=====

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v

retrieving revision 1.1

retrieving revision 1.4

diff -u -u -r1.1 -r1.4

--- include/x86emu/debug.h 7

Sep 2007 10:01:21 -0000 1.1

+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4

@@ -40,8 +40,6 @@

```
#ifndef __X86EMU_DEBUG_H
```

```
#define __X86EMU_DEBUG_H
```

```
-// #define DEBUG 0
```

```
-#undef DEBUG
```

```
/*----- Macros and type definitions -----*/
```

```
/* checks to be enabled for "runtime" */
```

@@ -78,6 +76,8 @@

```
# define DEBUG_SYSINT()      (M.x86.debug & DEBUG_SYSINT_F)
```

```
# define DEBUG_TRACECALL()   (M.x86.debug & DEBUG_TRACECALL_F)
```

```
# define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
```

```
+# define DEBUG_TRACEJMP()    (M.x86.debug & DEBUG_TRACEJMP_F)
```

```
+# define DEBUG_TRACEJMPREGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
```

```
# define DEBUG_SYS()          (M.x86.debug & DEBUG_SYS_F)
```

```
# define DEBUG_MEM_TRACE()    (M.x86.debug & DEBUG_MEM_TRACE_F)
```

```
# define DEBUG_IO_TRACE()     (M.x86.debug & DEBUG_IO_TRACE_F)
```

@@ -96,6 +96,8 @@

```
# define DEBUG_SYSINT()      0
```

```
# define DEBUG_TRACECALL()   0
```

```
# define DEBUG_TRACECALLREGS() 0
```

```
+# define DEBUG_TRACEJMP()    0
```

```
0
```

```
+# define DEBUG_TRACEJMPREGS() 0
```

```
# define DEBUG_SYS()          0
```

```
# define DEBUG_MEM_TRACE()    0
```

```
# define DEBUG_IO_TRACE()     0
```

@@ -169,14 +171,20 @@

```
  x86emu_dump_regs();          \
```

```

if (DEBUG_TRACECALL()) \
    printk("%04x:%04x: CALL %s%04x:%04x\n", u, v, s, w, x);
-# define RETURN_TRACE(n,u,v) \
+# define RETURN_TRACE(u,v,w,x,s) \
if (DEBUG_TRACECALLREGS()) \
    x86emu_dump_regs(); \
if (DEBUG_TRACECALL()) \
- printk("%04x:%04x: %s\n",u,v,n);
+ printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define JMP_TRACE(u,v,w,x,s) \
+ if (DEBUG_TRACEJMPREGS()) \
+     x86emu_dump_regs(); \
+ if (DEBUG_TRACEJMP()) \
+     printk("%04x:%04x: JMP %s%04x:%04x\n", u, v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-#
define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA 0x00000200
#define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR 0x20000000
#define SYSMODE_HALTED 0x40000000
@@ -250,7 +253,8 @@
    SYSMODE_SEGOVR_GS | \
    SYSMODE_SEGOVR_SS | \
    SYSMODE_PREFIX_DATA | \
-    SYSMODE_PREFIX_ADDR)
+    SYSMODE_PREFIX_ADDR | \
+    SYSMODE_32BIT_REP)

```



```

#define INTR_SYNCH      0x1
#define INTR_ASYNCH     0x2
@@ -274,9 +278,9 @@
    */
    u32                mode;
    volatile int        intr; /* mask of pending interrupts */
- int                debug;
+ volatile int        debug;
#ifdef DEBUG
- int                check;
+ int                check;
    u16                saved_ip;
    u16                saved_cs;
    int                enc_pos;
Index: include/x86emu/x86emu.h
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21
-0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif

@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F 0x004000
#define DEBUG_DECODE_NOPRINT_F 0x008000
#define DEBUG_SAVE_IP_CS_F 0x010000
+#define DEBUG_TRACEJMP_F 0x020000
+#define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef __cplusplus
} /* End of "C" linkage for C++ */
#endif
-
#endif /* __X86EMU_X86EMU_H */

```

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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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-- Wolfgang Denk

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Key Dates

* August 3, 2017

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Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

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TianoCore Bugzilla:

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=====
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2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.1
The "TianoCore Contribution Agreement" is included below in this document.
4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
5. It is preferred that contributions are submitted using the same copyright license as the base project. When

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=====
= Change Description / Commit Message / Patch Email =

=====

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: Tianocore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

- * The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- * git format-patch is one way to create this format

=== Definitions
for sample patch email ===

- * "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
- * "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
- * "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
- * "Brief-single-line-summary" is a short summary of the change.

- * The entire first line should be less than ~70 characters.
- * "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
- * "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
- * "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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=====
= Code Contributions =
=====

To make a contribution to a TianoCore project, follow these steps.

1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under"

message.

3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.0
The "TianoCore Contribution Agreement" is included below in this document.

4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.

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Contributions of code put into the public domain can also be

accepted.

Contributions using other licenses might be accepted, but further review will be required.

```
=====
= Change Description / Commit Message / Patch Email =
=====
```

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under:

TianoCore Contribution Agreement 1.0

Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

- * The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- * git format-patch is one way to create this format

=== Definitions for sample patch email ===

- * "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
- * "Brief-single-line-summary" is a short summary of the change.
- * The entire first line should be less than ~70 characters.
- * "Full-commit-message" a verbose multiple line comment describing

the change.

Each line should be less than ~70 characters.

- * "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
- * "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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Key Dates

* August 3, 2017

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Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

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1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message

explicitly states that the

contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version.

For example: Contributed-under: TianoCore Contribution Agreement 1.1

The "TianoCore Contribution Agreement" is included below in this document.

4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
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=====
= Change Description / Commit Message / Patch Email =

=====

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch
PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: Tianocore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

- * The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- * git format-patch is one way to create this format

=== Definitions for sample patch email ===

- * "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
- * "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
- * "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
- * "Brief-single-line-summary" is a short summary of the change.

- * The entire first line should be less than ~70 characters.
- * "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
- * "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
- * "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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Contributions.txt: TianoCore Contribution Agreement 1.0

=====

= Code Contributions =

=====

To make a contribution to a TianoCore project, follow these steps.

1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution

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For example: Contributed-under: TianoCore Contribution Agreement 1.0

The "TianoCore Contribution Agreement" is included below in this document.

4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
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Contributions of code put into the public domain can also

be

accepted.

Contributions using other licenses might be accepted, but further review will be required.

```
=====
= Change Description / Commit Message / Patch Email =
=====
```

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or
attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

- * The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- * git format-patch is one way to create this format

=== Definitions for sample patch email ===

- * "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
- * "Brief-single-line-summary" is a short summary of the change.
- * The entire first line should be less than ~70 characters.

- * "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
- * "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
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John R. Hauser
2018 January 20

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```
project('bar', 'c', license: 'Apache-2.0')
```

```
executable('bar', 'bar.c')
```

```
license = meson.project_license()[0]
if license != 'Apache-2.0'
    error('The license should be Apache-2.0, but it is: ' + license)
endif
```

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```
The End
bsd_user_ss.add(files(
'os-sys.c',
))
```

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```
if not have_bsd_user
    subdir_done()
endif
```

```
bsd_user_ss.add(files(
    'bsdload.c',
    'elfload.c',
    'main.c',
    'mmap.c',
    'signal.c',
    'strace.c',
    'syscall.c',
    'uaccess.c',
))
```

Pull in the OS-specific build glue, if any

```
subdir(targetos)
```

```
TARGET_ARCH=i386
```

```
TARGET_XML_FILES= gdb-xml/i386-32bit.xml
```

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John R. Hauser
2018 January 20

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man/sha2.3

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1.213 mtools 4.0.38

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1.217 rasdaemon 0.8.0

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

ASN.1 library for Python

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

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

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

Features

*

Generic implementation of ASN.1 types (X.208)

* Standards compliant BER/CER/DER codecs

* Dumps/loads ASN.1 structures from Python types

* 100% Python, works with Python 2.4 up to Python 3.7

* MT-safe

* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

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

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

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)

by

Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python

prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

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

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

Could be expressed in pyasn1 like this:

```
``python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
        DefaultedNamedType(
            'house',
            Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            )
        )
    )
``
```

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

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

```
Record:
id=123
room=321
>>>
'''
```

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

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

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

```
'''python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
'''
```

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

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

...

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

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

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

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

How to get pyasn1

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

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

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

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Found in path(s):

* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/README.md

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Metadata-Version: 1.2

Name: pyasn1

Version: 0.4.8

Summary: ASN.1 types and codecs

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

Author: Ilya Etingof

Author-email: etingof@gmail.com

Maintainer: Ilya Etingof <etingof@gmail.com>

License: BSD

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

Platform: any

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Console

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: Education

Classifier: Intended Audience :: Information Technology

Classifier: Intended Audience :: System Administrators

Classifier: Intended Audience :: Telecommunications Industry

Classifier: License :: OSI Approved :: BSD License

Classifier: Natural Language :: English

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.4

Classifier:

Programming Language :: Python :: 2.5

Classifier: Programming Language :: Python :: 2.6

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Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.2

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Classifier: Topic :: Communications

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

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

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.. _license:

License

=====

```
.. include:: ../../LICENSE.rst
```

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ASN.1 library for Python

=====

```
.. toctree::
```

```
:maxdepth: 1
```

Abstract Syntax Notation One (ASN.1

http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` <https://pypi.org/project/pyasn1/> library implements ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

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

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

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

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

ASN.1 applications

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

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

ASN.1 gotchas

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

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

Documentation

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

/pyasn1/contents

Use case

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

/example-use-case

Download & Install

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

/download

Changes

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

```
..
toctree::
    :maxdepth: 1
```

/changelog

License

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

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

/license

Getting help

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`\_`
and `PRs` <<https://github.com/etingof/pyasn1/pulls>>`\_` at GitHub.
Alternatively, you could ask for help at
`Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>`\_`
or search
`pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>`\_`
mailing list archive.

Books on ASN.1

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

- * `ASN.1 - Communication between heterogeneous systems` <<http://www.oss.com/asn1/dubuisson.html>>`\_` by Olivier Dubuisson
- * `ASN.1 Complete` <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>`\_` by Prof John Larmouth

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

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

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

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

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

Found in path(s):

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

1.224 packaging 21.2

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1.226 ndg-httpsclient 0.5.1

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1.227 rich 12.6.0

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1.228 idna 14.0.0

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1.229 distlib 0.3.4

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A. HISTORY OF THE SOFTWARE

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

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

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

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

Release	Derived	Year	Owner	GPL-

from		compatible? (1)		
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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

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=====

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=====

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

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

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

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray

- C. Titus Brown
- Francisco Martn Brugu
- Nicolas Cadou
- Godefroid Chapelle
- Julien Courteau
- Christophe Combelles
- Jason R. Coombs
- Pierre-Yves David
- Ned Deily
- Konrad DeLong
- Josip Djolonga
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- Amos Latteier
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1.230 cachecontrol 0.12.10

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Metadata-Version: 2.1

Name: CacheControl

Version: 0.12.10

Summary: httplib2 caching for requests

Home-page: <https://github.com/ionrock/cachecontrol>

Author: Eric Larson

Author-email: eric@ionrock.org

License: UNKNOWN

Description: ..

SPDX-FileCopyrightText: SPDX-FileCopyrightText: 2015 Eric Larson

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=====

CacheControl

=====

.. image:: <https://img.shields.io/pypi/v/cachecontrol.svg>

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:alt: Latest Version

.. image:: <https://travis-ci.org/ionrock/cachecontrol.png?branch=master>

:target: <https://travis-ci.org/ionrock/cachecontrol>

CacheControl is a port of the caching algorithms in `httplib2_` for use with `requests_` session object.

It was written because `httplib2`'s better support for caching is often mitigated by its lack of thread safety. The same is true of requests in terms of caching.

Quickstart

=====

.. code-block:: python

```
import requests
```

```
from cachecontrol import CacheControl
```

```
sess = requests.session()
```

```
cached_sess = CacheControl(sess)
```

```
response = cached_sess.get('http://google.com')
```

If the URL contains any caching based headers, it will cache the result in a simple dictionary.

For more info, check out the docs_

.. _docs: <http://cachecontrol.readthedocs.org/en/latest/>

.. _httplib2: <https://github.com/httplib2/httplib2>

.. _requests: <http://docs.python-requests.org/>

Keywords: requests http caching web

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

Classifier: Environment :: Web

Environment

Classifier: License :: OSI Approved :: Apache Software License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Classifier: Programming Language :: Python :: 3.8

Classifier: Programming Language :: Python :: 3.9

Classifier: Programming Language :: Python :: 3.10

Classifier: Topic :: Internet :: WWW/HTTP

Requires-Python: >=3.6

Provides-Extra: redis

Provides-Extra: filecache

Found in path(s):

* /cachecontrol-0-12-10-1-tar-gz/CacheControl-0.12.10/CacheControl.egg-info/PKG-INFO

* /cachecontrol-0-12-10-1-tar-gz/CacheControl-0.12.10/PKG-INFO

1.231 meld 2.0.1

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Contributors

- Chris McDonough, 2005-12-18

- Tres Seaver, 2006-02-09

- Jorge Puente Sarrn, 2012-11-27

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1.232 redis 4.2.2

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The complete list of contributors can be found at: <https://github.com/hapijs/catbox-redis/graphs/contributors>

1.233 base-files 3.0.14

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1.238 opkg-utils 0.5.0

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

The hypothetical commands `show w' and
`show c' should show the appropriate
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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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1.239 libgcc 11.4.0

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

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DRuntime: Runtime Library for the D Programming Language

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1.240 util-linux-libuuid 2.37.4

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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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Version 2.1, February 1999

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```
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1.241 inetutils 2.2

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

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

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

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

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

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

2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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.

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=====
Distutils2 Contributors
=====

The Distutils2 project was started by Tarek Ziad and is currently

maintained by ric Araujo. Many people have contributed to the project.

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

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

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martn Brugu
- Nicolas Cadou
- Godefroid Chapelle
- Julien Courteau
- Christophe Combelles
- Jason R. Coombs
- Pierre-Yves David
- Ned Deily
- Konrad DeLong
- Josip Djolonga
- John Edmonds
- Andr Espaze
- Boris Feld
- Andrew Francis
- Hallvard B Furuseth
- Patrice Gauthier
- Yannick Gingras
- Filip Gruszczyski
- Walker Hale IV
- Alexandre Hamelin
- Kelsey Hightower
- Thomas Holmes
- Preston Holmes
- Christian Hudon
- Julien Jehannet
- Jeremy Kloth
- Thomas Kluyver
-
- Amos Latteier
- Mathieu Leduc-Hamel
- Pierre Paul Lefebvre
- Tshepang Lekhonkhobe

- Alain Leufroy
- Janusz Lewandowski
- Martin von Lwis
- Hugo Lopes Tavares
- Guillermo Lpez-Anglada
- Justin Love
- Simon Mathieu
- Carl Meyer
- Alexis Mtaireau
- Julien Miotte
- Zubin Mithra
- Derek McTavish Mounce
- Paul Moore
- Michael Mulich
- Louis Munro
- Gal Pasgrimaud
- George Peristerakis
- Mathieu Perreault
- Guillaume Pratte
- Sean Reifschneider
- Antoine Reversat
- Arc Riley
- C. Anthony Risinger
- Elson Rodriguez
- Luis Rojas
- Erik Rose
- Brian Rosner
- Vinay Sajip
- Victor Stinner
- Alexandre Vassalotti
- Nadeem Vawda

Metadata-Version: 1.0

Name: setuptools

Version: 0.6c9

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

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

Author: Phillip J. Eby

Author-email: distutils-sig@python.org

License: PSF or ZPL

Description: =====

Installing and Using Setuptools

=====

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

Installation Instructions

----- Windows

=====

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

If you are upgrading a previous version of setuptools that was installed using an ``.exe`` installer,
please be sure to also *uninstall that older version*
via your system's "Add/Remove Programs" feature, BEFORE installing the newer version.

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

RPM-Based Systems

=====

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

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

Cygwin, Mac OS X, Linux, Other

=====

1. Download the appropriate egg for your version of Python (e.g. ``setuptools-0.6c9-py2.4.egg``). Do NOT rename it.
2. Run it as if it were a shell script, e.g. ``sh setuptools-0.6c9-py2.4.egg``. Setuptools will install itself using the matching version of Python (e.g. ``python2.4``), and will place the ``easy\_install`` executable in the default location for installing Python scripts (as determined by the standard distutils configuration files, or by the Python installation).

If you want to install setuptools to somewhere other than ``site-packages`` or your default distutils installation locations for libraries and scripts, you may include EasyInstall command-line options such as ``--prefix``, ``--install-dir``, and so on, following the ``.egg`` filename on the same

command line. For example::

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

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

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

Cygwin Note

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

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

Downloads

=====

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

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

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

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

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

Using
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`_
- * `Package Compatibility Notes`_ (user-maintained)
- * `The Internal Structure of Python Eggs`_

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

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

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 principal author and maintainer 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!)

Keywords: CPAN PyPI distutils eggs package management

Platform: UNKNOWN

Classifier: Development Status :: 3 - Alpha

Classifier: Intended Audience :: Developers

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1.244 gcc-run-time 11.4.0

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

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DRuntime: Runtime Library for the D Programming Language

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1.245 python-six 1.16.0

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1.253 zstd 1.5.2

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1.254 kerberos 1.17

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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
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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
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lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
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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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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

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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:

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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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