



Open Source Used In Polaris XE-Linux SDK 17.2

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1.2 tcpdump 4.9.3-r0

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Gocheck - A rich testing framework for Go

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1.6 pm-utils 1.4.1-r1

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Any executables

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1.9 docker 18.03.0-r0

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package spec

// License information for the exposed API.

//

// For more information: <http://goo.gl/8us55a#licenseObject>

```
type License struct {  
    Name string `json:"name,omitempty"`  
    URL  string `json:"url,omitempty"`  
}  
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```

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Go support for Protocol Buffers - Google's data interchange format

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The following people contributed improvements, fixes, suggestions, and comments:

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- Scott Tsai (scott.tw@gmail.com) suggested better UUCP_LOCK_DIR definition
- Josh Handley (<https://github.com/jhandley>) added support for line-editing, autocompletion and history when entering "send" and "receive" file names. Editing support uses the "linenoise" library. See: <https://github.com/jhandley/picocom>
- Salvatore Sanfilippo (<https://github.com/antirez>) is the author of the linenoise line-editing library. See: <https://github.com/antirez/linenoise>
- From Cody Schafer's (<https://github.com/jmesmon>) fork originated the idea to add custom baudrate support to picocom. See: <https://github.com/jmesmon/picocom>
- From Paul Chakravarti's (<https://github.com/paulchakravarti>) fork originated the idea to add support for disabling the send- and receive-file commands, and for not using the shell when executing external programs (to avoid shell escapes). See:

<https://github.com/paulchakravarti/picocom-noexec>

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On all platforms, Nmap is normally linked with:

o libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.

<http://www.tcpdump.org/>

o libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the

libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.

<http://code.google.com/p/libdnet/>

- o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library.

Distributed with Nmap in the libpcre subdirectory.

<http://www.pcre.org/>

- o liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the `--without-liblua` configuration directive.

<http://www.lua.org/>

- o OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the `--without-openssl` configuration directive.

<http://www.openssl.org/>

- o LIBLINEAR. Used for IPv6 OS classification.

<http://www.csie.ntu.edu.tw/~cjlin/liblinear/>

- o libsvn. The Subversion library, used by the updater program

`nmap-update`. <http://subversion.apache.org/>

- o APR (Apache Portable Runtime). Used by libsvn. <http://apr.apache.org/>

On Windows only, Nmap uses:

- o WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory `mswin32/winpcap`.

<http://www.winpcap.org/>

Certain Nmap Scripting Engine scripts use the simplified BSD license in `licenses/BSD-simplified`.

Zenmap and Ndiff require:

- o Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either `py2exe` or `py2app`.

<http://www.python.org/>

The Windows and Mac OS X binary packages include bundled versions of:

- o GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file `licenses/LGPL-2`.

<http://www.gtk.org/>

- o Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1. See the files `licenses/LGPL-2.1` and `licenses/MPL-1.1`.

<http://www.cairographics.org/>

- o libgailutil: Accessibility support for GTK+.

- o libpng, jpeg, LibTIFF: Image file format

libraries used by GTK+.

<http://www.libpng.org/> <http://www.ijg.org/> <http://www.libtiff.org/>

o zlib and bzip2: compression libraries.

<http://www.zlib.org/> <http://www.bzip.org/>

o Expat: XML parser library.

<http://expat.sourceforge.net/>

o fontconfig: font configuration library.

<http://www.fontconfig.org/>

o FreeType: font rendering library.

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o libxml2: XML parsing library.

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o SQLite.

<http://www.sqlite.org/>

o PyGTK, PyGObject: bindings for Python. Licensed under the GNU LGPL 2.1.

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o PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1.

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o Various X.org libraries. These were built using MacPorts.

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Written

by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

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

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#

glib/__init__.py: initialisation file for glib module

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,
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1.16 devmem2 1.0-r7

1.17 bash 4.2-r6

1.17.1 Available under license :

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)

id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

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

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

It should serve as a pretty good example of how to get carried away. :-)
From spcedt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcedt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcedt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with
SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcedt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcedt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcedt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

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

John

On May 9, 1:36pm, Chet Ramey wrote:
> Subject: ksh scripts

```

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

```

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From mikel@ora.com Tue Aug 1 12:13:20 1995

Flags: 10

Return-Path: mikel@ora.com

Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTTP (8.6.12+cwru/CWRU-2.1-ins)

id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)

Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400

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id AA00672; Tue, 1 Aug 95 08:57:32 EDT

Date: Tue, 1 Aug 95 08:57:32 EDT

From: mikel@ora.com (Michael Loukides)

Message-Id: <9508011257.AA00672@los.ora.com>

Subject: Re: Ksh debugger from Rosenblatt's book [for bash]

To: Chet Ramey <chet@odin.INS.CWRU.Edu>

Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com

In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger to work with bash-2.0. Does ORA have any problem with me distributing

it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and stick it in our ftp archive, and put a reference to it in the book.

(Too late to actually discuss the thing, at least for this edition).

1.18 jemalloc 4.0.4-r0

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1.19 e2fsprogs

1.42.99+1.43+gitAUTOINC+0f26747167-r0

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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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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

*/

/*

- Unix SMB/CIFS implementation.

+ trivial database library - standalone version

- trivial database library - private includes
-
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Gadi Oxman, August 1995

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```
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```
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```

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

That's all there is to it!

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

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

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

BSDLIB_PIC_FLAG = -fpic

image: \$(BSD_LIB)

\$(BSD_LIB): \$(OBJS)

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

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

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

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

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

install-shlibs install:: \$(BSD_LIB)

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

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

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

@-\$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::

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

clean::

\$(RM)

-rf pic

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

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

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

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

tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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

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

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

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

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

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

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1.20 open-vm-tools 10.0.7-r0

1.20.1 Available under license :

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Any executables

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

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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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Open-vm-tools v10.0.7

The Linux kernel modules are released under the GPL v2, a majority of the user level components are released under the LGPL v2.1, and the SVGA and mouse drivers are released under the X11 license.

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```
=====
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```

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Version 2.1, February 1999

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>>> base64.c-none

>>> convertutf.c/.h

from unicode, inc.-none
>>> freebsd-1.72
>>> icu4c-4.4.1
>>> unicode-5.0

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base64.c -- routines to encode/decode base64 data

\$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp \$ /

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1.25 python-gevent 1.0b1-r0

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1.26 inotify-tools 3.14-r0

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1.27 bzip2 1.0.6-r5

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

1.28 libopflex beryllium-sr1-r0

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1.29 cpio 2.12-r0

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1.33 base-passwd 3.5.29-r0

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Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/*

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/*

* imap_gssapi.c is partially derived from sample code in:
* GSS-API Programming Guide
* Part No: 816-1331-11
* Sun Microsystems, Inc. 4150 Network Circle Santa Clara, CA 95054 U.S.A.

*

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/*

* hmac.c is derived from:

Network Working Group H. Krawczyk
Request for Comments: 2104 IBM
Category: Informational M. Bellare
 UCSD
 R. Canetti
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 February 1997

HMAC: Keyed-Hashing for Message Authentication

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Appendix -- Sample

Code

=====
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1.39 zlib 1.2.11-r0

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```

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Ty Coon, President of Vice
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Initialize empty image

f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table

57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

Create 1st primary partition

ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type

<removed>1 2048 4095 2048 1M 83 Linux

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe
bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device	Boot	Start	End	Sectors	Size	Id	Type
<removed>1		2048	4095	2048	1M	83	Linux
<removed>2		4096	20479	16384	8M	a5	FreeBSD

Create default BSD
2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel
type: bsd
partitions: 4

Slice	Start	End	Sectors	Size	Type	Fsize	Bsize	Cpg
c	4096	20479	16384	8M	unused	0	0	0
d	0	16064	16065	7.9M	unused	0	0	0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

Welcome to fdisk <removed>.

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors

Geometry: 255 heads, 63 sectors/track, 1 cylinders

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: bsd

partitions: 4

Slice	Start	End	Sectors	Size	Type	Fsize	Bsize	Cpg

a	4096	6144	2049	1M	4.2BSD			

0	0	0						

c	4096	20479	16384	8M	unused	0	0	0

d	0	16064	16065	7.9M	unused	0	0	0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

0	unused	5	4.1BSD	9	4.4LFS	d	boot

1	swap	6	Eighth Edition	a	unknown	e	ADOS

2	Version 6	7	4.2BSD	b	HPFS	f	HFS

3	Version 7	8	MS-DOS	c	ISO-9660	10	AdvFS

4 System V

Command (m for help):

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1.41 libdaemon 0.14-r0

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1.42 compiler 4.0.0-r0

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    "http://www.w3.org/TR/html4/strict.dtd">
<html>
<head>
<META http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Polly - Contributors</title>
<link type="text/css" rel="stylesheet" href="menu.css" />
<link type="text/css" rel="stylesheet" href="content.css" />
</head>
<body>

<div id="box">
<!--#include virtual="menu.html.incl"-->

<div id="content">

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```

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```
<h2>People</h2>
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<p>Raghesh works on OpenMP code generation. He is funded as Google Summer of Code Student 2011.</p>
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<h3>Johannes Doerfert</h3>
<p>Johannes works on Polly as part of his PhD research at Saarland University in Germany.</p>
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<h3>Tobias Grosser</h3>
<p>Tobias is one of the two Co-founders of Polly. He designed the overall architecture and contributed to almost every part of Polly. Polly was started during his diploma studies at University of Passau. Furthermore, he spent 6 months at Ohio State University (funded by the U.S. National Science Foundation through awards 0811781 and 0926688). From August 2011 he works on Polly, during his PhD with INRIA/UMPC/ENS (funded through a <a href="http://research.google.com/university/relations/fellowship_recipients.html">Google Europe Fellowship in Efficient Computing</a>).</p>
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<p>Website: www.grosser.es</p>

<h3>Andreas Simbürger</h3>

<p>

Andreas works on the profiling infrastructure during his PhD at University of Passau.

</p>

<p>Website: http://www.infosun.fim.uni-passau.de/cl/staff/simbuerger/</p>

<h3>Hongbin Zheng</h3>

<p>Hongbin Zheng is one of the two Co-founders of Polly. He was funded as a Google Summer of Code Student 2010 and implemented parts of the Polly frontends as well as the automake/cmake infrastructure.</p>

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Intel Corporation

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*/

; RUN: llc -march=hexagon < %s

; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
 ; cause LSR to assume type "void" for the memory type. This would then
 ; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }

%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {

entry:

br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry

br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph

%lsr.iv = phi %struct.0* [%cgep22, %exit.2], [undef, %while.body.lr.ph]

switch i32 undef, label %exit [

i32 1, label %sw.bb.i

i32 2, label %sw.bb3.i

]

sw.bb.i: ; preds = %while.body

unreachable

sw.bb3.i: ; preds = %while.body

unreachable

exit:

; preds = %while.body

switch i32 undef, label %exit.2 [


```

    i32 1, label %sw.bb.i17
    i32 2, label %sw.bb3.i20
]

sw.bb.i17:                                ; preds = %exit
    %0 = bitcast %struct.0* %lsr.iv to i32*
    %1 = load i32, i32* %0, align 4
    unreachable

sw.bb3.i20:                               ; preds = %exit
    %2 = bitcast %struct.0* %lsr.iv to i8**
    %3 = load i8*, i8** %2, align 4
    unreachable

exit.2:                                   ; preds = %exit
    %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
    br label %while.body

while.end:                                ; preds = %entry
    ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

    ; First, extend each i32 to i64
    ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
    ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
    ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
    ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
    ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

    ; Next, convert each to double.
    ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
    ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
    ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
    ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
    ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
    ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
    ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
    ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

```

```
; CHECK: ret
%flt = sitofp <16 x i32>
%in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}
```

; This one is small enough to satisfy isSimple, but still illegally large.

```
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
```

```
; CHECK-LABEL: test_sitofp_fixed_shortish:
```

```
; CHECK-DAG: scvtf.2d v0, v0
```

```
; CHECK-DAG: scvtf.2d v1, v1
```

```
; CHECK: ret
```

```
%flt = sitofp <4 x i64> %in to <4 x double>
```

```
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
```

```
ret <4 x double> %res
```

```
}
```

```
=====
```

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```
// RUN: %clang_cc1 -fsyntax-only -verify -pedantic %s
```

```
@protocol NSObject
@end
@interface NSObject <NSObject> {
```

```

}
@end
@interface NSString : NSObject
@end
void __setRetained(id *ivar, id value, NSObject **o) {
    *ivar = value;
}
static NSString *_logProcessPrefix = 0;
void func() {
    __setRetained(&_logProcessPrefix, _logProcessPrefix, &_logProcessPrefix);
}
@implementation NSObject (ScopeAdditions)
+ (void)setObjectLogProcessPrefix:(NSString *)processPrefix {
    __setRetained(&_logProcessPrefix, processPrefix, &_logProcessPrefix);
}
@end

@class Derived;

NSObject *ExternFunc (NSObject *filePath, NSObject *key);
typedef id FuncSignature (NSObject *arg1, Derived *arg2);

@interface Derived: NSObject
+ (void)registerFunc:(FuncSignature *)function; // expected-note{{passing argument to parameter 'function' here}}
@end

void foo(void)
{
    // GCC currently allows this (it has some fairly new support for covariant return types and contravariant argument
    // types).
    // Since registerFunc: expects
    // a Derived object as it's second argument, I don't know why this would be legal.
    [Derived registerFunc: ExternFunc]; // expected-warning{{incompatible pointer types sending 'NSObject
    *(NSObject *, NSObject *)' to parameter of type 'FuncSignature *'}}
}

// rdar://10751015
@protocol NSCopying @end
@interface I
- (void)Meth : (id <NSCopying>)aKey; // expected-note {{passing argument to parameter 'aKey' here}}
@end

@class ForwarClass; // expected-note 3 {{conformance of forward class ForwarClass to protocol NSCopying can
not be confirmed}}

ForwarClass *Test10751015 (I* pi, ForwarClass *ns_forward) {

    [pi Meth : ns_forward ]; // expected-warning {{sending 'ForwarClass *' to parameter of incompatible type

```

```
'id<NSCopying>'}}
```

```
id <NSCopying> id_ns = ns_forward; // expected-warning {{initializing 'id<NSCopying>' with an expression of incompatible type 'ForwardClass *'}}
```

```
return id_ns; // expected-warning {{returning 'id<NSCopying>' from a function with incompatible result type 'ForwardClass *'}}
}
```

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1.43 libtool 2.4.6-r0

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1.46 netkit-rsh 0.17-r0

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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goproperties - properties file decoder for Go

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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1.52 python-pycrypto 2.6.1-r0

1.52.1 Available under license :

00INDEX - This file
tsu-notify.mbox - Notification sent per U.S. export regulations
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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 (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 from	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	no
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	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

Footnotes:

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

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

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From dlitz@dlitz.net Sun Aug 2 21:48:25 2009
Date: Sun, 2 Aug 2009 21:48:25 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090803014825.GA1326@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2631

Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

```
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=====
```

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(though that would be nice).

--amk

(www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg.

I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, Joris Bontje, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

```
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=====
```

Regards,
- Dwayne

--

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing

key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <paulswartz@gmail.com>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4

for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068

for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 10:14:06 -0600 (CST)

Received: (vmmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in 'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159
Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159]) by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066 for <dlitz@dlitz.net>; Mon, 3 Aug 2009 10:14:05 -0600 (CST)
Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3 for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=gmail.com; s=gamma; h=domainkey-signature:mime-version:received:in-reply-to:references:from:date:message-id:subject:to:content-type:content-transfer-encoding; bh=A0RHBf0TnribKS5qOHJ3WYbkZ+b0cuPeuoKAvpApWcc=; b=gyTqkRhKIHadFKIZCBWsRbnMNVdQ1PWlJbyC0EvxPskaoHr3HAR96MWQNBePu/40AcVn55qlIqTdom4e9zlUEE6MwZo9kqi/Qw0L/SLib0DIQeNqo/eHYqPmuVswltaYwNAyMJY9++76rPGzqYdALsfvsmwv7Q3/bEmjVTr0tQE=
DomainKey-Signature: a=rsa-sha1; c=noaws; d=gmail.com; s=gamma; h=mime-version:in-reply-to:references:from:date:message-id:subject:to:content-type:content-transfer-encoding; b=jze7KSMkUGilfVCXKXaaXMi5NAtGdMQOtVZZfRNyGSy68xOd2sxefjyyig3EfT6Nv6Q3opUMsT96Q6zjZND55w446kTh2uBTNz4d3NwIeEWJnG3xcliRQu/mXPFP8AzPI3CefL1ornJLM1eQ2XyuZA73jem+SJtfdHUcSD1UhgI=
MIME-Version: 1.0
Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon, 03 Aug 2009 09:14:03 -0700 (PDT)
In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
From: Paul Swartz <paulswartz@gmail.com>
Date: Mon, 3 Aug 2009 12:13:43 -0400
Message-ID: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
Status: RO
X-Status: A
Content-Length: 1450

On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
te:
> Hi Paul,
>
> I am the new

maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at <http://www.pycrypto.org/>.

That's great!

> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu=
blic
> domain all your contributions to PyCrypto, with the following notice?
>
> =C2=A03D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
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=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
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Yes,
that's fine. Good luck with the new release!

-P
--=20
Paul Swartz
paulswartz at gmail dot com
<http://paulswartz.net/>
AIM: z3penguin

From dlitz@dlitz.net Mon Aug 3 14:35:01 2009
Date: Mon, 3 Aug 2009 14:35:01 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: Re: PyCrypto license clarification
Message-ID: <20090803183501.GA17472@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
<324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1; format=flowed
Content-Disposition: inline

Content-Transfer-Encoding: 8bit
In-Reply-To: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP:
url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 1250

On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:

>On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenger<dlitz@dlitz.net> wrote:

>> Hi Paul,

>>

>> I am the new maintainer of the Python Cryptography Toolkit, and I am

>> working on a new release at <http://www.pycrypto.org/>.

>

>That's great!

>

>> I understand that you have made contributions to PyCrypto, under nickname

>> "z3p" and/or other names. May I, on your behalf, dedicate to the public

>> domain all your contributions to PyCrypto, with the following notice?

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>> =====

>

>Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Sat Apr 18 09:14:20 2009

Date: Sat, 18 Apr 2009 09:14:20 -0400

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: Mark Moraes <moraes@computer.org>

Subject: PyCrypto license clarification
Message-ID: <20090418131419.GA14494@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2635

Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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--amk

(www.amk.ca)

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=====

Regards,
- Dwayne

--
Dwayne C. Litzberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (vmmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198
Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])
by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE
for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (gmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com; s=s1024; t=1240269933; bh=OvxqbYnCG7R6tUN3YmlgFURM3CuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type; b=F2h2bFzpQxyKFZ8BhenniyupGw4Zvlekb9BSk91qKU+51W/TkSGBij5YZIhkLQdkQk0qLz5f4g8dT6bOME3sEY1j10hlx0K0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/EJhRpe+FiV6aoLV0FONWiHfGDghPT1dulWXfVTqgB2aU=
DomainKey-Signature:a=rsa-sha1; q=dns; c=noaws; s=s1024; d=yahoo.com; h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type; b=r6RShFF5VzQLg+9tcn1xKuo4Rs4IVvXF6fdqOpQrMyRCxeFoebhuTE35grGqlomOJLwM0+mZwRb6rGkDj763caOAl08Ect/qlADW5izXfmVQaDchTbTqmpsJBmQnTQs9iZ+InrG+3UIwtUSGfX7fhEWmI9P/HBzxf9Wp4b3j

eo=;

Message-ID:

<551071.34569.qm@web32405.mail.mud.yahoo.com>

X-YMail-OSG:

FrK8aWMVM1mFJtLpMGbUbCLjbUQC.i.JkIAKUHSFsFn7t9PbtewAewXJ2uhZGCOlGCX6oVnG3u.CgqzAffY
4vZSnfTT8wnCkzZNZ_g6k.XUc3ipo_6e.92TXl4p8MxDGAf1tpNF5nXPwcQ7aREs7jGoWWVJYVyp50clsUFS
Hzf7Zbpa8P1Yoe_xSz3f3OAgRSh5fCrbFCC8sHPCuwrL3YhasbtHmkWffteSS.x6gEcBaxf03oz4FeDb5mpJ54g11X
onq8h_TmzX9g84Bin9g_3fJ4WSXm6g6.tohLyfXcUxoz4j036wyWpTKPrWEzIUQaN83Sv_bj_Ghxx--

Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT

X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1

Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)

From: M Moraes <markmoraes@yahoo.com>

Reply-To: moraes@computer.org

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Status: RO

X-Status: A

Content-Length: 3222

Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,

Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
>
> I am the new maintainer of the Python Cryptography Toolkit,
> and I am
> working on a new release at <http://www.pycrypto.org/>.
>
> People often ask me what license PyCrypto is covered by, if
> it's
> GPL-compatible, etc. Right now, I'm not really sure
> what to tell them.
> The text in the current LICENSE file (quoted below) is not
> entirely clear

> on the point of whether distributing modified versions is
> allowed. (It
> says "distribute and use", but not "modify".)
>
>
> =====
> Distribute and use freely; there are
> no restrictions on further
> dissemination and usage except those
>
> imposed by the laws of your
> country of residence. This
> software is provided "as is" without
> warranty of fitness for use or
> suitability for any purpose, express
> or implied. Use at your own risk or
> not at all.
>
> =====
>
> Incorporating the code into commercial
> products is permitted; you do
> not have to make source available or
> contribute your changes back
> (though that would be nice).
>
> --amk
>
>
> (www.amk.ca)
>
> For the next PyCrypto release, I would like to take steps
> to move toward a
> clearer licensing regime. I am asking as many
> copyright holders as I can
> find if I can release PyCrypto under something clearer and
> more standard.
> Below, I have quoted a public domain dedication that was
> recommended in
> _Intellectual Property and Open Source: A Practical Guide
> to Protecting
> Code_
> by Van Lindberg. I have already contacted A.
> M. Kuchling, Robey
> Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they
> have all
> approved the following dedication for their contributions.
>

> I understand that you have made contributions to
> PyCrypto. May I, on your
> behalf, dedicate to the public domain all your
> contributions to PyCrypto,
> with the following notice?
>
>
> =====
> The contents of this file are
> dedicated to the public domain. To the
> extent that dedication to the public
> domain is not available, everyone
> is granted a worldwide, perpetual,
> royalty-free, non-exclusive license
> to exercise all rights associated with
> the contents of this file for
> any purpose whatsoever. No
> rights are reserved.
>
> =====
>
> Regards,
> - Dwayne
>
> -- Dwayne C. Litzenger <dlitz@dlitz.net>
>
 Key-signing key - 19E1
> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009
Date: Mon, 20 Apr 2009 20:01:37 -0400
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>
To: moraes@computer.org
Subject: Re: PyCrypto license clarification
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>
References: <551071.34569.qm@web32405.mail.mud.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
In-Reply-To: <551071.34569.qm@web32405.mail.mud.yahoo.com>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;

id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3677

Thanks a lot, and don't
worry about not responding to previous emails. I
do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

>
>Hi Dwayne.
>
>Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies
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>
>Regards,
>Mark.
>
>--- On Sat, 4/18/09, Dwayne C. Litzemberger <dlitz@dlitz.net> wrote:
>
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>> Subject: PyCrypto license clarification
>> To: "Mark Moraes" <moraes@computer.org>
>> Date: Saturday, April 18, 2009, 9:14 AM
>> Hi Mark,
>>
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>> and I am
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>> what to tell them.
>> The text in the current LICENSE file (quoted below) is not
>> entirely clear
>> on the point of whether distributing
modified versions is
>> allowed. (It
>> says "distribute and use", but not "modify".)
>>
>>
>> =====
>> Distribute and use freely; there are
>> no restrictions on further
>> dissemination and usage except those

```

>> imposed by the laws of your
>>   country of residence. This
>> software is provided "as is" without
>>   warranty of fitness for use or
>> suitability for any purpose, express
>>   or implied. Use at your own risk or
>> not at all.
>>
>> =====
>>
>>   Incorporating the code into commercial
>> products is permitted; you do
>>   not have to make source available or
>> contribute your changes back
>>   (though that would be nice).
>>
>>   --amk
>>
>>
>>   (www.amk.ca)
>>
>> For the next PyCrypto release, I would like to take steps
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>> M. Kuchling, Robey
>> Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they
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>> I understand that you have made contributions to
>> PyCrypto. May I, on your
>> behalf, dedicate to the public domain all your
>> contributions to PyCrypto,
>> with the following notice?
>>
>>
>> =====
>>
>>   The contents of this file are
>> dedicated to the public domain. To the

```

>> extent that dedication to the public
>> domain is not available, everyone
>> is granted
a worldwide, perpetual,
>> royalty-free, non-exclusive license
>> to exercise all rights associated with
>> the contents of this file for
>> any purpose whatsoever. No
>> rights are reserved.
>>
>> =====
>>
>> Regards,
>> - Dwayne
>>
>> -- Dwayne C. Litzenger <dlitz@dlitz.net>
>> Key-signing key - 19E1
>> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>>
>

--

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008

X-Maildir-Dup-Checked: Yes

Return-Path: <dlitz@dlitz.net>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D

for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA

for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)

Received: (vmmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)

Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13])

by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088

for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)

Received: from stamper.itconsult.co.uk (stamper.itconsult.co.uk

[193.201.42.31]) by m14.stamper.itconsult.co.uk (GMS

15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;

Thu, 28 Aug 2008 01:45:02 +0100

To: crypt@bis.doc.gov,

enc@nsa.gov,

web_site@bis.doc.gov,
pycrypto@lists.dlitz.net,
PYTHON-CRYPTO@NIC.SURFNET.NL,
dlitz@dlitz.net

Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net designates 64.5.53.201 as permitted sender) identity=mailfrom;
client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;
helo=goedel.dlitz.net; mechanism=-all; envelope-from=dlitz@dlitz.net;
Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201]) by
m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with ESMTP id
taxsjqaa for post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100
Received: from rivest.dlitz.net (rivest.dlitz.net [IPv6:2002:4c0a:9133:1104::1])
by goedel.dlitz.net (Postfix) with ESMTP id 667C7100B1
for <post@stamper.itconsult.co.uk>;
Wed, 27 Aug 2008 18:42:56 -0600 (CST)
Received: by rivest.dlitz.net (Postfix, from userid 1000)
id B92F8C66420; Wed, 27 Aug 2008 20:42:55 -0400 (EDT)
Received: by rivest.dlitz.net (tmdb-sendmail, from uid 1000);
Wed, 27 Aug 2008 20:42:54 -0400
Date: Wed, 27 Aug 2008 20:42:54 -0400
Cc: post@stamper.itconsult.co.uk
Subject: PyCrypto TSU NOTIFICATION
Message-ID: <20080828004254.GA31214@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
X-Delivery-Agent: TMDA/1.1.9 (Jura)
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>
X-DNSBL: 0
Status: O
Content-Length:
2182
Lines: 65

-----BEGIN PGP SIGNED MESSAGE-----

#####

#

This is a proof of posting certificate from

stamper.itconsult.co.uk certifying that a user
claiming to be:-
dlitz@dlitz.net
requested that this message be sent to:-
crypt@bis.doc.gov
enc@nsa.gov
web_site@bis.doc.gov
pycrypto@lists.dlitz.net
PYTHON-CRYPTO@NIC.SURFNET.NL
dlitz@dlitz.net

This certificate was issued at 00:45 (GMT)
on Thursday 28 August 2008 with reference 0520978

CAUTION: while the message may well be from the sender
indicated in the "From:" header, the sender
has NOT been authenticated by this service

For information about the Stamper service see
<http://www.itconsult.co.uk/stamper.htm>

#####

SUBMISSION TYPE: TSU

SUBMITTED BY: Dwayne C. Litzenberger

SUBMITTED FOR: Dwayne C. Litzenberger

POINT OF CONTACT: Dwayne C.

Litzenberger

PHONE and/or FAX: +1-613-693-1296

MANUFACTURER: n/a

PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")

ECCN: 5D002

NOTIFICATION: <http://www.pycrypto.org/>

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- - -

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----

Version: 2.6.3i

Charset: noconv

Comment: Stamper Reference Id: 0520978

iQEVAgUBSLX1DYGVnbVwth+BAQEcuwf9EWnXLqSO5bPzR9K9QnTPcsKbTljKjPxr
d+q0E7eE8VtnvviUcTAR9o27yvzOPxdFT864MQA7OTsBPK39aGAgA4fgAgvYH9t
UNjJ/kv8QLz/eq2fi/HNjyrwnqFnUl0uqwpOrQGbz8Y+SGpVh1gKqy1Ju45L+doq
sxbzCOPjgRv2zDdNR/2SnFmDWQXv8dSeonwIHpQDft8/LVA/gHiTDmteQlOhJQ6o
XYhY+HbRjsD741/GSpOt9IlN5ln0UgshFoLIndnNSAvWf4aPyh5KCN7ho+/BC0v/
W/pqSSlPkwmbhlPHoOltTkNc0qKLAHXqMGJNhO8AkrYZOyJksb0HsA==
=3oIX

-----END

PGP SIGNATURE-----

Date: Sun, 23 Nov 2008 15:54:35 -0800

From: Wim Lewis <wiml@h4h4h.org>

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

Cc: Wim Lewis <wiml@h4h4h.org>

Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@h4h4h.org>

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On November 23, 2008, you wrote:

>Hi Wim,

>

>I am the new maintainer of the Python Cryptography Toolkit, and I am

>working on a new release at <http://www.pycrypto.org/>.

>

>I understand that you have made contributions to PyCrypto. May I, on

>your behalf, dedicate to the public domain all your contributions to

>PyCrypto, with the following notice?

>

> =====

> The contents of this file are dedicated to the public domain. To the
> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents
of this file for

> any purpose whatsoever. No rights are reserved.

> =====

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
implementation, which already has a public-domain notice at the top of
the file. But I am happy to have that, any any other code of mine that
might have wandered in there under an unclear open sourcish license,
distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSSnnAl8UnN8n93LBAQLp/gQAhr7x8Av1mstc2kxEJDWTm26PTAZxMz4B
FektbDOzkxgc5580MGGeX/MVn8aw+1BHg0YD85gsntlDzkcQtb+BR/xAvJ5zKyA
J/Mn/I+I6ekJQ3juh8IPHLAduOXM9Rtguas/yR+Doaq0xOPKoBx+/5+t1LJtBcZ
wrPEa9Oui9s=
=zSY9

-----END PGP SIGNATURE-----

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

- (a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or
- (b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or
- (c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.
- (d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of

the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

=== EOF ===

From dlitz@dlitz.net Sun Nov 23 00:17:22 2008

Date: Sun, 23 Nov 2008 00:17:22 -0500

From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

To: "A. M. Kuchling" <amk@amk.ca>

Subject: PyCrypto license clarification

Message-ID: <20081123051722.GA29253@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: multipart/signed; micalg=pgp-sha1;
protocol="application/pgp-signature"; boundary="YiEDa0DAkWCtVeE4"

Content-Disposition: inline

X-Primary-Address: dlitz@dlitz.net

X-Homepage: <http://www.dlitz.net/>

X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected

X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 3461

Lines: 78

--YiEDa0DAkWCtVeE4

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

Content-Transfer-Encoding: quoted-printable

Hi Andrew,

People

[illegible]

=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
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--amk (www.amk.ca)

May I, on your behalf, dedicate to the public domain your considerable=20 contributions to PyCrypto, with the following notice?

[illegible][illegible]

Regards,
- Dwayne

--=20

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWCtVeE4

Content-Type: application/pgp-signature; name="signature.asc"

Content-Description:

Digital signature

Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.5 (GNU/Linux)

iEYEARECAAYFAkko52IACgkQHBBG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ

yloAn33a3ZjkteyJaTbzEqImOEw8JGpf

=aBEW

-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008

X-Maildir-Dup-Checked: Yes

Return-Path: <amk@amk.ca>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D

for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id D632D10111

for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)

Received: (vmmailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does
not designate permitted sender hosts)

Received: from mail5.sea5.speakeasy.net (mail5.sea5.speakeasy.net [69.17.117.7])

by goedel.dlitz.net (Postfix) with ESMTP id 97DC710105

for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)

Received: (qmail 3992 invoked from network); 23 Nov 2008 12:51:52 -0000

Received: from dsl092-163-165.wdc2.dsl.speakeasy.net (HELO localhost) (akuchling@[66.92.163.165])
(envelope-sender <amk@amk.ca>)

by mail5.sea5.speakeasy.net (qmail-ldap-1.03) with AES256-SHA encrypted SMTP

for <dlitz@dlitz.net>; 23 Nov 2008 12:51:52 -0000

Date: Sun, 23 Nov 2008 07:51:34 -0500

From: "A.M. Kuchling" <amk@amk.ca>
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Subject: Re: PyCrypto license clarification
Message-ID: <20081123125134.GA21239@amk.local>
Reply-To: amk@amk.ca
References: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
In-Reply-To: <20081123051722.GA29253@rivest.dlitz.net>
User-Agent:
Mutt/1.5.13 (2006-08-11)
Status: RO
Content-Length: 537
Lines: 15

> People often ask me what license PyCrypto is covered by, if it's
> GPL-compatible, etc. Right now, I'm not really sure what to tell them.
> The text in the current LICENSE file (quoted below) is not entirely clear
> on the point of whether distributing modified versions is allowed. (It
> says "distribute and use", but not "modify".)

The intention is that it be public domain.

> May I, on your behalf, dedicate to the public domain your considerable
> contributions to PyCrypto, with the following notice?

You may.

--amk
From dlitz@dlitz.net Sat Feb 28 23:24:14 2009
Date: Sat, 28 Feb 2009 23:24:14 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Jeethu Rao <jeethurao@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090301042414.GA15122@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2513

Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am
working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

```
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Distribute and use freely;
there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
=====
```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg.

I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following text for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

```
=====
The contents of this file are dedicated to the public domain. To the
extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====
```

Regards,
- Dwayne

--

Dwayne C. Litzberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar 8 17:28:16 2009

X-Maildir-Dup-Checked:

Yes

Return-Path: <jeethurao@gmail.com>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9

for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 17:28:16 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB

for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 15:28:15 -0600 (CST)

Received: (vmmailmgr-postfix 5011 invoked by uid 1003); 8 Mar 2009 15:28:15 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in 'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249

Received: from rv-out-0708.google.com (unknown [209.85.198.249])

by goedel.dlitz.net

(Postfix) with ESMTP id 3C097449E7

for <dlitz@dlitz.net>; Sun, 8 Mar 2009 15:28:12 -0600 (CST)

Received: by rv-out-0708.google.com with SMTP id k29so1252333rvb.26

for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;

d=gmail.com; s=gamma;

h=domainkey-signature:mime-version:received:in-reply-to:references

:date:message-id:subject:from:to:content-type;

bh=YWy9U32WCU/ksRqukHwaOZyJQBUs4Yvt5mI20U6mI/g=;

b=oMj122lIxYiJKge2zNjW3rRiUi9LqFXmey5Wp0pLlItuNF+X3duyfhopTuBAKw7MwVY

B5E6VQuGVEyzBbNscyVgq6DhQiQtouCLZymSViobmuDmKn5DtUKoxpDk0xCxQmHYaas

L9/A6D3/J66kKrNBgX9mc0GPcZTviVFYkPR0Q=

DomainKey-Signature: a=rsa-sha1; c=noaws;

d=gmail.com; s=gamma;

h=mime-version:in-reply-to:references:date:message-id:subject:from:to

:content-type;

b=Ym7CStuDEfJKay1AJyWZkZmJA1lnTcwCG6akBHAXLld8ht6PFcmIsffzZG8hJCIVJ8

vljqcT+G6cywVTBw1pyGX7ECYzr0+vhGvgdpACGrS24zikHfpSSd5GFogzXaLVvGVH8p

bqSHpfWKKtEP4gAQkiNeIq1GNtR2j8U3fnRyg=

MIME-Version: 1.0

Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;

Sun, 08 Mar 2009 14:27:54 -0700 (PDT)

In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>

References: <20090301042414.GA15122@rivest.dlitz.net>

Date: Mon, 9 Mar 2009 02:57:54 +0530

Message-ID: <e3c0ddba0903081427p3a7b1058g417dd8624df68d6d@mail.gmail.com>

Subject: Re: PyCrypto license clarification

From: Jeethu Rao <jeethurao@gmail.com>
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Content-Type: multipart/alternative; boundary=000e0cd209d0e5a3d40464a23054
Status: RO
Content-Length: 7668

--000e0cd209d0e5a3d40464a23054
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi Dwayne, My contribution to pycrypto are very very minimal (The sha256 module, IIRC).
I'd be fine with the public domain license for PyCrypto.

Jeethu Rao
PS: Apologies for the delay in my response.
I don't really
check this email address all that often,
please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at <http://www.pycrypto.org/>.
>
> People often ask me what license PyCrypto is covered by, if it's
> GPL-compatible, etc. Right now, I'm not really sure what to tell them. The
> text in the current LICENSE file (quoted below) is not entirely clear on the
> point of whether distributing modified versions is allowed. (It says
> "distribute and use", but not "modify".)
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> Distribute and use freely; there are no restrictions on further
> dissemination and usage except those imposed by the laws of your
> country of residence. This software is provided "as is" without
> warranty of fitness for use or suitability for any purpose,
> express
> or implied. Use at your own risk or not at all.
> =====
>
> Incorporating the code into commercial products is permitted; you do
> not have to make source available or contribute your changes back
> (though that would be nice).
>
> --amk (www.amk.ca)
>

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>
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I, on your
> behalf, dedicate to the public domain all your contributions to PyCrypto,
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> The contents of this file are dedicated to the public domain. To the
> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.
> =====
>
> Regards,
> - Dwayne
>
> --
> Dwayne C. Litzenger <dlitz@dlitz.net>
> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>

--

Jeethu Rao

--000e0cd209d0e5a3d40464a23054

Content-Type: text/html; charset=ISO-8859-1

Content-Transfer-Encoding: quoted-printable

Hi Dwayne,<div>My contribution to pycrypto are very very minimal (The sha25=
6 module, IIRC).</div><div>I'd
be fine with the public domain license f=
or PyCrypto.</div><div>
</div><div>Jeethu Rao</div><div>PS: Apologies fo=
r the delay in my response.=A0</div>
<div>I don't really check this email address all that often,</div><div>=
please direct any further correspondence to <a href=3D"mailto:jeethu@jeethu=
rao.com">jeethu@jeethurao.com
<div class=3D"gmail_quote">On=
Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenger <=

<mailto:dlitz@dlitz.net">dlitz@dlitz.net" wrote:

>

Hi Jeethu,

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--amk

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

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)
2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)
3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).
4. Removing some modules altogether without replacing them.

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

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Exception:

- Portions of HMAC.py and setup.py are derived from Python 2.2, and are therefore Copyright (c) 2001, 2002, 2003 Python Software Foundation (All Rights Reserved). They are licensed by the PSF under the terms of the Python 2.2 license. (See the file LEGAL/copy/LICENSE.python-2.2

for details.)

EXPORT RESTRICTIONS:

Note that the export or re-export of cryptographic software and/or source code may be subject to regulation in your jurisdiction.

From dlitz@dlitz.net Mon May 4 22:49:14 2009

Date: Mon, 4 May 2009 22:49:14 -0400

From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

To: Joris Bontje <joris@bontje.nl>

Subject: PyCrypto license clarification

Message-ID: <20090505024914.GA9219@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 2553

Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
=====
```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

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is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====
```

Regards,
- Dwayne

--

Dwayne C. Litzemberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl

Tue May 5 03:08:32 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <joris@bontje.nl>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078

for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 03:08:32 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 2315B40583

for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 01:08:32 -0600 (CST)

Received: (vmmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97

Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])

by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C

for <dlitz@dlitz.net>; Tue, 5 May 2009 01:08:30

-0600 (CST)

Received: (gmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000

Received: from gmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])

(envelope-sender <joris@bontje.nl>
by 10.170.1.96 (qmail-ldap-1.03) with SMTP
for <>; 5 May 2009 07:08:25 -0000
Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)
id 9BE9B15759B; Tue, 5 May 2009 09:08:25 +0200 (CEST)
Received: from firewall66.interaccess.nl (firewall66.interaccess.nl
[193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;
Tue, 05 May 2009 09:08:25 +0200
Message-ID: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
Date: Tue, 05 May 2009 09:08:25 +0200
From: joris@bontje.nl
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Subject: Re: PyCrypto license clarification
References: <20090505024914.GA9219@rivest.dlitz.net>
In-Reply-To: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset=ISO-8859-1;
format="flowed"
Content-Disposition:
inline
Content-Transfer-Encoding: 7bit
User-Agent: Internet Messaging Program (IMP) H3 (4.1.3)
Status: RO
X-Status: A
Content-Length: 3488

Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.

I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

=====
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
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Regards,
Joris

Citeren

"Dwayne C. Litzenberger" <dlitz@dlitz.net>:

> Hi Joris,
>
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>
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>
> Regards,
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>
> --
> Dwayne C. Litzenberger <dlitz@dlitz.net>
> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Tue May 5 17:53:47 2009
Date: Tue, 5 May 2009 17:53:47 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: joris@bontje.nl
Subject: Re: PyCrypto license clarification
Message-ID: <20090505215347.GB9933@rivest.dlitz.net>
References: <20090505024914.GA9219@rivest.dlitz.net>
<20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
MIME-Version:
1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
In-Reply-To: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3863

Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:
> Hi Dwayne,
>
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> effort to keep this going.
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>
>
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> Joris
>
> Citeren "Dwayne C. Litzenger" <dlitz@dlitz.net>:
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>>
>> =====
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>> =====
>>
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>> not have to make source available or contribute your changes back
>> (though that would be nice).
>>
>> --amk (www.amk.ca)
>>
>> For the next PyCrypto release, I would like to take steps to move toward a
>> clearer licensing regime. I am asking as many copyright holders as I can
>> find if I can
>> release PyCrypto under something clearer and more standard.
>> Below, I have quoted a public domain dedication that was recommended in
>> _Intellectual Property and Open Source: A Practical Guide to Protecting
```

```

>> Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey
>> Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, and Mark Moraes, and they
>> have all approved the following dedication for their contributions.
>>
>> I understand that you have made contributions to PyCrypto. May I, on your
>> behalf, dedicate to the public domain all your contributions to PyCrypto,
>> with the following notice?
>>
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>> whatsoever. No rights are reserved.
>> =====
>>
>> Regards,
>> - Dwayne
>>
>> --
>> Dwayne C. Litzenger <dlitz@dlitz.net>
>> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>
>
--
Dwayne C. Litzenger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>
To: Barry A Warsaw <barry@python.org>
Subject: PyCrypto license clarification
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2535

Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am
working on a new release at http://www.pycrypto.org/.

```

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

```
=====
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warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
=====
```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

```
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is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====
```

Regards,
- Dwayne

--
Dwayne C. Litzberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon
Mar 2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)
Received: (vmmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:39 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
Received: from mail.wooz.org (216-15-33-230.c3-0.slv-ubr2.lnh-slv.md.static.cable.rcn.com [216.15.33.230])
by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073
for <dlitz@dlitz.net>;
Mon, 2 Mar 2009 10:29:38 -0600 (CST)
Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])
by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F
for <dlitz@dlitz.net>; Mon, 2 Mar 2009 11:29:35 -0500 (EST)
Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>
From: Barry Warsaw <barry@python.org>
To: Dwayne C. Litzenger <dlitz@dlitz.net>
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>
Content-Type: text/plain; charset=US-ASCII; format=flowed; delsp=yes
Content-Transfer-Encoding: quoted-printable
Mime-Version: 1.0 (Apple Message framework v930.3)
Subject: Re: PyCrypto license clarification
Date: Mon, 2 Mar 2009 11:29:34 -0500
References: <20090301024509.GA13195@rivest.dlitz.net>
X-Pgp-Agent: GPGMail d55 (v55, Leopard)
X-Mailer: Apple Mail (2.930.3)
Status: RO
Content-Length: 869

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenger wrote:

> I am the new maintainer of the Python Cryptography Toolkit,
and I am =20=

> working on a new release at <http://www.pycrypto.org/>.

Great! I'm glad to see someone taking up the mantle of this important =20=

Python library.

> I understand that you have made contributions to PyCrypto. May I, =20

> on your behalf, dedicate to the public domain all your contributions =20=

> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,

Barry

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/ecG+JdZwNvPJRfsa6rhY6+MHLdHI6agk
evkInSJQAcVHlZnVlVeR5IXgvDUMakZjU4SOV7MqkhsKA9lIet7PaD9VSYgn3ra5
gElwI2DQDoOy5GExXMm74gqrrb1PCCbCRmpaYNo+DZohwHkeFBjbwDRA3wItOrH7
SK4w9VBjtfY=3D
=3DQduY

-----END PGP SIGNATURE-----

Date: Mon, 16 Feb 2009 12:58:00 -0800

From: Robey Pointer <robey@lag.net>

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)

Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

> For the next PyCrypto release, I would like to take steps to move
> toward a clearer licensing regime. I am asking as many copyright
> holders as I can find if I can release PyCrypto under something
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> following dedication for his contributions.
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```

to the public domain all your
> contributions to PyCrypto, with the following notice?
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> the
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> any purpose whatsoever. No rights are reserved.
>
> =
> =====
>

```

In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQCfQmYYuVODvIlyLg0hgCI9LAbQ

SH8AoLJgaq1Ili7/ZYDc+/Cd8VO0xLbr

=Mv6g

-----END PGP SIGNATURE-----

00INDEX This file

LICENSE.orig Original (deprecated) license for the Python Cryptography Toolkit

LICENSE.libtom LICENSE file from LibTomCrypt

stmts/ Statements by contributors

1.53 go-capability 0.0-r0

1.53.1 Available under license :

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1.54 attr 2.4.47-r0

1.54.1 Available under license :

This package was debianized by Nathan Scott nathans@debian.org on Sun, 19 Nov 2000 07:37:09 -0500.

It can be downloaded from <ftp://oss.sgi.com/projects/xfs/download/>

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Version 2.1, February 1999

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

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

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

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that the user who changes the contents of definitions files in the
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b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
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```
#!/usr/bin/perl -0777 -pi
```

```
# Update b4_copyright invocations or b4_copyright_years definitions to
# include the current year.
```

```
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```

```
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```

```
use strict;
use warnings;
```

```
my $margin = 72;
```

```
my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR};
if (!$this_year || $this_year !~ m/^\d{4}$/)
{
    my ($sec, $min, $hour, $mday, $month, $year) = localtime
(time ());
    $this_year = $year + 1900;
}
my $old_re = <<'EOF'
(
    (?:^(\n)
```

```

#BEFORE
(?:
  b4_copyright\[([^\[]*\]
  | m4_(?:push|pop)def\[b4_copyright_years]
)
#AFTER
)
(?:
  ,\s*
  (
    \[s* (?:\d{4}(?:,\s*|-))* (\d{4}) \s*\]
  )
)?
\)
EOF
;

while (/( $old_re)/gx)
{
  my $start = pos() - length ($1);
  my $b4_copyright_line = $2;
  my $year_lines = $3;
  my $final_year = $4;
  $year_lines .= ')';

  # If there was a second argument, it contains years, so update them.
  if ($final_year)
  {
    $b4_copyright_line .= ';';
    if ($final_year != $this_year)
    {
      # Update the year.
      $year_lines =~ s/$final_year/$final_year, $this_year/;
    }

    # Normalize all whitespace.
    $year_lines =~ s/\s+/ /g;

    # Put spaces after commas.
    $year_lines =~ s/, ?/, /g;

    # Compress to intervals.
    $year_lines =~
      s/
        (\d{4})
        (?:
          ( \ | - )
          ((? ? {

```

```

        if ($2 eq '-') { \d{4}'; }
        elsif (!$3)    { $1 + 1; }
        else          { $3 + 1; }
    )))
)+
/$1-$3/gx;

# Format within margin.
my $year_lines_new;
my $indent = index ($b4_copyright_line, '[');
--$indent if ($b4_copyright_line =~ m/^\n/);
while (length $year_lines)
{
    my $text_margin = $margin - $indent;
    if (($year_lines =~ s/^(.{1,$text_margin})(?: |$)/)
        || ($year_lines =~ s/^( [\S]+ )(?: |$)/))
    {
        my $line = "\n" . (' ' x $indent) . $1;
        ++$indent if (!$year_lines_new);
        $year_lines_new .= $line;
    }
    else
    {
        # Should be unreachable, but we don't want an infinite
        # loop if it can be reached.
        die;
    }
}

# Replace the old invocation. Should never die.
die if (!s/$old_re/G/$b4_copyright_line$year_lines_new/x);

# Prepare for the next search.
pos () = $start + length ("b4_copyright_line$year_lines_new");
}
}

while (/(\bb4_copyright\()/g)
{
    my $start = pos () - length ($1);
    my $end = pos ();
    my $re = $old_re;
    pos () = $start;
    $re =~ s/^\#BEFORE\G/;
    if (!$re/x)
    {
        my $line = (substr ($_, 0, $start) =~ s/\n\n/g) + 1;

```

```

    print STDERR
    "$ARGV:$line: warning: failed to update a b4_copyright\n";
}
pos () = $end;
}

while (/([b4_copyright_years])/g)
{
    my $start = pos () - length ($1);
    my $end = pos ();
    my $re = $old_re;
    $re =~ s/^#AFTER\\G/;
    if (!$re/x)
    {
        # The substr operation blows away pos (), so restoring pos ()
        # at the end is necessary.
        my $line = (substr ($_, 0, $start) =~ s/\n\n/g) + 1;
        print STDERR
            "$ARGV:$line: warning: failed to update a"
            . " b4_copyright_years\n";
    }
    pos () = $end;
}

```

1.59 gnome-desktop-testing 2014.1-r1

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1.60 ppp 2.4.7-r0

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1.61 Im-sensors 3.4.0-r0

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard

Original author of libsensors, sensors-detect, sensors and isadump.

* Merlin Hughes

Original author of sensord.

* Bob Schlaermann

Dynamic chip feature detection (a.k.a. generic chip support) in
libsensors and sensors.

* Mark M. Hoffman

Many improvements to the libsensors configuration file scanner.

* Jean Delvare

New libsensors API, and migration of sensors and sensord thereto.

Many optimizations in libsensors and sensors.

Configuration file converter.

Rewrite of sensors-detect.

Support for multiple configuration files in libsensors.

1.62 ipcalc 0.2.0-r0

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1.64 findutils 4.6.0-r0

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Version 3, 29 June 2007

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1.65 go-context git-r0

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1.66 cracklib 2.9.5-r0

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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.

^L

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.

^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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^L

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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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END OF TERMS AND CONDITIONS

^L

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.>

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

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

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

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 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
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> > it was enough to just get it consistent and documented as to what
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> license
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>=20
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> 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.umd.edu ([131.151.0.192]) by UMR-CMAIL1.umd.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-ipv6.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@umn.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-56FBFEBE6E9F@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@umn.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

1.67 python 3.5.6-r1.0

1.67.1 Available under license :

A. HISTORY OF THE SOFTWARE

=====

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

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

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

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

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

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

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History and License

History of the software

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <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 (now Zope Corporation; see <http://www.zope.com/>). In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.6.1	1.6	2001	CNRI	no
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
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+-----+-----+-----+-----+-----+					
2.1.3					
2.1.2	2002	PSF	yes		
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Mersenne Twister

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`

or `init_by_array(init_key, key_length)`.

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Sockets

The `:mod:`socket``

module uses the functions, `:func:`getaddrinfo``, and

`:func:`getnameinfo``, which are coded in separate source files from the WIDE
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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

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SipHash24

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves (supercop/crypto_auth/siphhash24/little)

djb (supercop/crypto_auth/siphhash24/little2)

Jean-Philippe Aumasson (<https://131002.net/siphhash/siphhash24.c>)

strtod and dtoa

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <http://www.netlib.org/fp/>. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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#

.gitignore

#

builds/unix/pkg.m4

#

docs/FTL.TXT

docs/GPLv2.TXT

#

include/freetype/internal/fthash.h

```
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdfplib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
#
```


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```
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```

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1.77 libgcc 8.2.0-r0

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

```

-----
#!/usr/bin/python
#
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#
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# it under the terms of the GNU General Public License as published by
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# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before
# being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re

```

```

import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
            sys.stderr.write(string + '\n')
            self.num_errors
            += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

    self.skip_files |= set([
        # Skip licence files.
        'COPYING',
        'COPYING.LIB',
        'COPYING3',
        'COPYING3.LIB',
        'LICENSE',
        'fdl.texi',
        'gpl_v3.texi',
        'fdl-1.3.xml',
        'gpl-3.0.xml',

        # Skip auto- and libtool-related files
        'aclocal.m4',
        'compile',
        'config.guess',
        'config.sub',
        'depcomp',
        'install-sh',
        'libtool.m4',
        'ltmain.sh',
        'ltoptions.m4',

```

```

    'ltsugar.m4',
    'ltversion.m4',
    'lt~obsolete.m4',
    'missing',
    'mkdep',
    'mkinstalldirs',
    'move-if-change',
    'shlibpath.m4',
    'symlink-tree',
    'ylwrap',

    # Skip FSF mission statement, etc.
    'gnu.texi',
    'funding.texi',
    'appendix_free.xml',

    # Skip imported texinfo files.
    'texinfo.tex',
    ])

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')

    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':

```

```

        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True

    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename
in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

    # Characters in a range of years. Include '.' for typos.
    ranges = '[0-9](?:[-0-9.,\s]\\s+and\\s+)*[0-9]'

    # Non-whitespace characters in a copyright holder's name.
    name = '[\\w.,-]'

    # Matches one year.
    self.year_re = re.compile ('[0-9]+')

    # Matches part of a year or copyright holder.
    self.continuation_re = re.compile (ranges + '|' + name)

    # Matches a full copyright notice:
    self.copyright_re = re.compile (
        # 1: 'Copyright (C)', etc.
        '[Cc]opyright'
        '[Cc]opyright\\s+\\([Cc]\\)'
        '[Cc]opyright\\s+%s'
        '[Cc]opyright\\s+&copy;'
        '[Cc]opyright\\s+@copyright{'
        'copyright = u'"
        '@set\\s+copyright[\\w-]+)'

```

```

# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.

'(\s*(?:' + ranges + ',?')
'@value\{[^\}]*\})\s*)'

# 3: 'by ', if used
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(' + name + '(?:\s?' + name + ')*?)'

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
                                     re.IGNORECASE)
self.comment_re = re.compile('#+[*]+;+|%+//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include
this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = ''

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):

```



```

        self.year = year

    def __str__(self):
        return 'unrecognised year: ' + self.year

    def parse_year (self, string):
        year = int (string)
        if len (string) == 2:
            if year > 70:
                return year + 1900
            elif len (string) == 4:
                return year
            raise self.BadYear (string)

    def year_range (self, years):
        year_list = [self.parse_year
(year)
            for year in self.year_re.findall (years)]
        assert len (year_list) > 0
        return (min (year_list), max (year_list))

    def set_use_quilt (self, use_quilt):
        self.use_quilt = use_quilt

    def include_year (self, year):
        assert not self.max_year
        self.max_year = year

    def canonicalise_years (self, dir, filename, filter, years):
        # Leave texinfo variables alone.
        if years.startswith('@value'):
            return years

        (min_year, max_year) = self.year_range (years)

        # Update the upper bound, if enabled.
        if self.max_year and not filter.is_fossilised_file (dir, filename):
            max_year = max (max_year, self.max_year)

        # Use a range.
        if min_year == max_year:
            return '%d' % min_year
        else:
            return '%d-%d' % (min_year, max_year)

    def strip_continuation (self, line):
        line = line.lstrip()
        match = self.comment_re.match

```

```

(line)
    if match:
        line = line[match.end():].rstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != "":
            self.errors.report (pathname,
                                'trailing characters in @set: '
                                + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add
the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break

        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
        continuation = self.strip_continuation (next_line)
        if not self.continuation_re.match (continuation):
            break

        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
        next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match (line, match.start())
        assert match

```

```

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author
(dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname,
                        'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
           + canon_form
           + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)]
+ line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
try:
    canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

line = (line[:match.start (2)]
       + (" if intro.startswith ('copyright = ') else ' ')
       + canon_form + self.separator
       + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):

```

```

        intro += ' (C)'
    elif intro.endswith('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start(1)] + intro + line[match.end(1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    mode = None
    with open (pathname, 'r') as file:
        prev = None
        mode = os.fstat (file.fileno()).st_mode
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                                                    file, line, match)
                        (this_changed, line, next_line)
                        = res
                    changed = changed or this_changed

                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search (line):
                    self.errors.report (pathname,
                                        'unrecognised copyright: %s'
                                        % line.strip())
                lines.append (line)
                line = next_line

```

```

# If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
        os.fchmod (file.fileno(), mode)
    if self.use_quilt:
        subprocess.call (['quilt', 'add', pathname])
    os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for
(dir, subdirs, filenames) in os.walk (tree):
    # Don't recurse through directories that should be skipped.
    for i in xrange (len (subdirs) - 1, -1, -1):
        if filter.skip_dir (dir, subdirs[i]):
            del subdirs[i]

    # Handle the files in this directory.
    for filename in filenames:
        if filter.skip_file (dir, filename):
            sys.stdout.write ('Skipping %s\n'
                             % os.path.join (dir, filename))
        else:
            self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option
        ('--quilt', '"quilt add" files before changing them',
         self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
         self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

```

```

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...\n\n'
        'Options:\n' % sys.argv[0])
    format = '%-15s %s\n'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ("\nDirectories:\n")

    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '\n')

    else:
        sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, "")
                count = 0
                for (dir, filter) in self.dirs:

```

```

        if (dir + os.sep).startswith (canon_dir):
            count += 1
            self.copyright.process_tree (dir, filter)
        if count == 0:
            self.errors.report (None, 'unrecognised directory: '
                                + chosen_dir)
    sys.exit (0 if self.errors.ok() else 1)

#-----

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
        return GenericFilter.skip_file
(self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    self.skip_files |= set ([
        # Not part of GCC
        'math-68881.h',
    ])

    self.skip_dirs |= set ([
        # Better not create a merge nightmare for the GNAT folks.
        'ada',

        # Handled separately.
        'testsuite',
    ])

    self.skip_extensions |= set ([
        # Maintained by the translation project.
        '.po',

```

```

        # Automatically-generated.
        '.pot',
    ])

    self.fossilised_files |= set ([
        # Old news won't be updated.
        'ONEWS',
    ])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Don't change the tests, which could be
            woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        # Similarly params/README.
        if filename == 'README' and os.path.basename (dir) == 'params':
            return True
        if filename == 'pdt_5.f03' and os.path.basename (dir) == 'gfortran.dg':
            return True
        return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Maintained by the translation project.

```



```

        '.po',

        # Automatically-generated.
        '.pot',
    ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set ([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set ([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// \\\(C\\\) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

```

```

    canon_fsf = 'Free Software Foundation, Inc.'
    self.add_package_author ('Free Software Foundation', canon_fsf)
    self.add_package_author ('Free Software Foundation.', canon_fsf)
    self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
    self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
    self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
    self.add_package_author ('The Free Software Foundation', canon_fsf)
    self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
    self.add_package_author ('Software Foundation,
Inc.', canon_fsf)

```

```

    self.add_external_author ('ARM')
    self.add_external_author ('AdaCore')
    self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
    self.add_external_author ('Cavium Networks.')
    self.add_external_author ('Faraday Technology Corp.')
    self.add_external_author ('Florida State University')
    self.add_external_author ('Greg Colvin and Beman Dawes.')
    self.add_external_author ('Hewlett-Packard Company')
    self.add_external_author ('Intel Corporation')
    self.add_external_author ('Information Technology Industry Council.')
    self.add_external_author ('James Theiler, Brian Gough')
    self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
    self.add_external_author ('National Research Council of Canada.')
    self.add_external_author ('NVIDIA Corporation')
    self.add_external_author ('Peter Dimov and Multi Media Ltd.')
    self.add_external_author ('Peter
Dimov')

```

```

    self.add_external_author ('Pipeline Associates, Inc.')
    self.add_external_author ('Regents of the University of California.')
    self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
    self.add_external_author ('Silicon Graphics')
    self.add_external_author ('Stephen L. Moshier')
    self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
    self.add_external_author ('The Go Authors. All rights reserved.')
    self.add_external_author ('The Go Authors. All rights reserved.')
    self.add_external_author ('The Go Authors.')
    self.add_external_author ('The Regents of the University of California.')
    self.add_external_author ('Unicode, Inc.')
    self.add_external_author ('University of Toronto.')

```

```

class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

    self.add_dir ('.', TopLevelFilter())
    # Boehm-GC is imported from

```

```

upstream.
    self.add_dir('config', ConfigFilter())
    # contrib isn't really part of GCC.
    self.add_dir('fixincludes')
    self.add_dir('gcc', GCCFilter())
    self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
    self.add_dir('gnattools')
    self.add_dir('gotools')
    self.add_dir('include')
    # intl is imported from upstream.
    self.add_dir('libada')
    self.add_dir('libatomic')
    self.add_dir('libbacktrace')
    self.add_dir('libcc1')
    self.add_dir('libcpp', LibCppFilter())
    self.add_dir('libdecnumber')
    # libffi is imported from upstream.
    self.add_dir('libgcc', LibGCCFilter())
    self.add_dir('libgfortran')
    # libgo is imported from upstream.
    self.add_dir('libgomp')
    self.add_dir('libhsail-rt')
    self.add_dir('libiberty')
    self.add_dir('libitm')
    self.add_dir('libobjc')
    # liboffloadmic is imported
from upstream.
    self.add_dir('libquadmath')
    # libsanitizer is imported from upstream.
    self.add_dir('libssp')
    self.add_dir('libstdc++-v3', LibStdCxxFilter())
    self.add_dir('libvtv')
    self.add_dir('lto-plugin')
    # maintainer-scripts maintainer-scripts
    # zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',

```

```
'libhsail-rt',  
'libiberty',  
'libitm',  
'libobjc',  
'libssp',  
'libstdc++-v3',  
'libvtv',  
'lto-plugin',  
]
```

GCCCmdLine().main()

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Version 2.1, February 1999

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</appendix>

/* Definitions for BSD assembler syntax for Intel 386

(actually AT&T syntax for insns and operands,
adapted to BSD conventions for symbol names and debugging.)
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<<http://www.gnu.org/licenses/>>. */

```

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler
labels. If we aren't using
underscores, we are using prefix `.'s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \
fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define
ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
( fputs (".comm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
( fputs (".lcomm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

```

```

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
( fputs(".lcomm ", (FILE)), \
assemble_name((FILE), (NAME)), \
fprintf((FILE), "%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
if ((LOG)!=0) fprintf((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label
where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
sprintf((BUF), "%s%d", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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@settitle GNU General Public License
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NOT

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@end enumerate

@heading END OF TERMS AND CONDITIONS

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

@smallexample

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

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

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

You should have received a copy of the GNU General Public License along with this program. If

not, see @url{http://www.gnu.org/licenses/}.

@end smallexample

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

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

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

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

You should also get your employer (if you work as a programmer) or school, if any, to sign a ``copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see @url{http://www.gnu.org/licenses/}.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read @url{http://www.gnu.org/philosophy/why-not-lgpl.html}.

@c man end

.\" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)

.\"

.\" Standard preamble:

.\" =====

.de Sp \" Vertical space (when we can't use .PP)

.if t .sp .5v

.if n .sp

..

.de Vb \" Begin verbatim text

.ft CW

.nf

.ne \\\$1

..

.de Ve \" End verbatim text

.ft R

```

.fi
..
.\" Set up some character translations and predefined strings. \*(-- will
.\" give an unbreakable dash, \*(PI will give pi, \*(L\" will give a left
.\" double quote, and \*(R\" will give a right double quote. \*(C+ will
.\" give a nicer C++. Capital omega is used to do unbreakable dashes and
.\" therefore won't be available. \*(C` and \*(C' expand to ` in nroff,
.\" nothing in troff, for use with C<>.
.tr \(*W-
.ds C+ C\v'-.1v'h'-1p's-2+h'-1p'+\s0\v'.1v'h'-1p'
.ie n \{\
.  ds -- \(*W-
.  ds PI pi
.  if (\n(.H=4u)&(1m=24u) .ds -- \(*W'h'-12u\"(\(*W'h'-12u'-' diablo 10 pitch
.  if (\n(.H=4u)&(1m=20u) .ds -- \(*W'h'-12u\"(\(*W'h'-8u'-' diablo 12
pitch
.  ds L\" ""
.  ds R\" ""
.  ds C` ""
.  ds C' ""
'br\}
.el\{\
.  ds -- \\\(em\
.  ds PI \(*p
.  ds L\" ``
.  ds R\" "
.  ds C`
.  ds C'
'br\}
.\"
.\" Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(.g .ds Aq \(\a
.el      .ds Aq '
.\"
.\" If the F register is >0, we'll generate index entries on stderr for
.\" titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
.\" entries marked with X<> in POD. Of course, you'll have to process the
.\" output yourself in some meaningful fashion.
.\"
.\" Avoid warning from groff about undefined register 'F'.
.de IX
..
.if !\nF .nr F 0
.if \nF>0 \{\
.  de IX
.  tm Index:\\$1\t\n%t\"\\$2"
..
.  if !\nF==2 \{\

```

```

.    nr % 0
.    nr F 2
.    \}
.\}
.\"
.\" Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
.\" Fear. Run. Save yourself. No user-serviceable parts.
.    \" fudge factors for nroff and troff
.if n {\
.    ds #H 0
.    ds #V .8m
.
.    ds #F .3m
.    ds #[ \f1
.    ds #] \fP
.\}
.if t {\
.    ds #H ((1u-(\\n(.fu%2u))*13m)
.    ds #V .6m
.    ds #F 0
.    ds #[ \&
.    ds #] \&
.\}
.    \" simple accents for nroff and troff
.if n {\
.    ds ' \&
.    ds ` \&
.    ds ^ \&
.    ds , \&
.    ds ~ ~
.    ds /
.\}
.if t {\
.    ds ' \k:h'-(\n(.wu*8/10-\*(#H)\"h\"|\n:u\"
.    ds ` \k:h'-(\n(.wu*8/10-\*(#H)\"h\"|\n:u'
.    ds ^ \k:h'-(\n(.wu*10/11-\*(#H)'^h\"|\n:u'
.    ds , \k:h'-(\n(.wu*8/10)',h\"|\n:u'
.    ds ~ \k:h'-(\n(.wu-\*(#H-.1m)'~h\"|\n:u'
.    ds / \k:h'-(\n(.wu*8/10-\*(#H)\"z\z\h\"|\n:u'
.\}
.    \" troff and (daisy-wheel) nroff accents
.ds : \k:h'-(\n(.wu*8/10-\*(#H+.1m+\*(#F)\"v'-\*(#V\"z.h'.2m+\*(#F'.h\"|\n:u\"v\"*\*(#V'
.ds 8 \h\"*\*(#H\"(*b'h'-\*(#H'
.ds o \k:h'-(\n(.wu+\w\"(de'u-\*(#H)/2u\"v'-.3n\"*\*(#[\z\z\de\"v'.3n\"h\"|\n:u\"*\*(#)
.ds d- \h\"*\*(#H\"(pd'h'-\w'~'u\"v'-.25m\"f2\hy\fp\"v'.25m\"h'-\*(#H'
.ds D- D\k:h'-\w'D'u\"v'-.11m\"z\hy\"v'.11m\"h\"|\n:u'
.ds th \"*\*(#[\v'.3m\"s+1l's-1\"v'-.3m\"h'-(\w'I'u*2/3)\"s-1o's+1\"*\*(#)
.ds

```

```

Th \*(#[\s+2\l\h'-\w'I'u*3/5'\v'-.3m'o\v'.3m'\*(#]
.ds ae a\h'-(\w'a'u*4/10)'e
.ds Ae A\h'-(\w'A'u*4/10)'E
. \ " corrections for vroff
.if v .ds ~ \k:\h'-(\n(.wu*9/10-\*(#H)\s-2\u~\d\s+2\h'\n:n:u'
.if v .ds ^ \k:\h'-(\n(.wu*10/11-\*(#H)\v'-.4m'^\v'.4m'h'\n:n:u'
. \ " for low resolution devices (crt and lpr)
.if \n(.H>23 .if \n(.V>19 \
\{
. ds : e
. ds 8 ss
. ds o a
. ds d- d\h'-1\'(ga
. ds D- D\h'-1\'(hy
. ds th \o'bp'
. ds Th \o'LP'
. ds ae ae
. ds Ae AE
.\}
.rm #[ #] #H #V #F C
.\ " =====
.\ "
.IX Title "GPL 7"
.TH GPL 7 "2018-07-26" "gcc-8.2.0" "GNU"
.\ " For nroff, turn off justification. Always turn off hyphenation; it makes
.\ " way too many mistakes in technical documents.
.if n .ad l
.nh
.SH "NAME"
gpl \- GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.SS "\s-1GNU\s0 General Public License"
.IX Subsection
"GNU General Public License"
.SS "Version 3, 29 June 2007"
.IX Subsection "Version 3, 29 June 2007"
.Vb 1
\& Copyright (c) 2007 Free Software Foundation, Inc. <http://fsf.org/>
\&
\& Everyone is permitted to copy and distribute verbatim copies of this
\& license document, but changing it is not allowed.
.Ve
.SS "Preamble"
.IX Subsection "Preamble"
The \s-1GNU\s0 General Public License is a free, copyleft license for
software and other kinds of works.
.PP

```


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apply it to your programs, too.

.PP

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.PP

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.PP

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know their rights.

.PP

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For the developers' and authors' protection, the \s-1GPL\s0 clearly explains that there is no warranty for this free software. For both users' and authors' sake, the \s-1GPL\s0 requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

.PP

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version

of the \s-1GPL\s0 to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the \s-1GPL,\s0 as needed to protect the freedom of users.

.PP

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the \s-1GPL\s0 assures that patents cannot be used to render the program non-free.

.PP

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

.SS "\s-1TERMS AND CONDITIONS\s0"

.IX Subsection "TERMS AND CONDITIONS"

.IP "0. Definitions." 4

.IX Item "0. Definitions."

\&*(L"This License*(R" refers to version 3 of the \s-1GNU\s0 General Public License.

.Sp

\&*(L"Copyright*(R" also

means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

.Sp

\&*(L"The Program*(R" refers to any copyrightable work licensed under this License. Each licensee is addressed as *(L"you*(R". *(L"Licensees*(R" and \&*(L"recipients*(R" may be individuals or organizations.

.Sp

To *(L"modify*(R" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a *(L"modified version*(R" of the earlier work or a work *(L"based on*(R" the earlier work.

.Sp

A *(L"covered work*(R" means either the unmodified Program or a work based on the Program.

.Sp

To *(L"propagate*(R" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

.Sp

To *(L"convey*(R" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not

conveying.

.Sp

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

.IP "1. Source Code." 4

.IX Item "1. Source Code."

The *(L"source code*(R" for a work means the preferred form of the work for making

modifications to it. *(L"Object code*(R" means any non-source form of a work.

.Sp

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

.Sp

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

.Sp

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

.Sp

The Corresponding Source need not include anything that users can

regenerate automatically from other parts of the Corresponding Source.

.Sp

The Corresponding Source for a work in source code form is that same work.

.IP "2. Basic Permissions." 4

.IX Item "2. Basic Permissions."

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.Sp

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

.IP "3. Protecting Users' Legal Rights From Anti-Circumvention Law." 4

.IX Item "3. Protecting Users' Legal Rights From Anti-Circumvention Law."

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the \s-1WIPO\s0 copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

.Sp

When you convey a covered work, you waive any legal power to forbid circumvention of technological

measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

.IP "4. Conveying Verbatim Copies." 4

.IX Item "4. Conveying Verbatim Copies."

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

.Sp

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

.IP "5. Conveying Modified Source Versions." 4

.IX Item "5. Conveying Modified Source Versions."

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

.RS 4

.IP "a." 4

.IX Item "a."

The work must carry prominent notices stating that you modified it, and giving a relevant date.

.IP "b." 4

.IX Item "b."

The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to \"keep intact all notices\"(R".

.IP "c." 4

.IX Item "c."

You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged.

This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

.IP "d." 4

.IX Item "d."

If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

.RE

.RS 4

.Sp

A compilation of a covered work with other separate and independent

works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an `\&\*(L"aggregate\*(R"` if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

.RE

.IP

"6. Conveying Non-Source Forms." 4

.IX Item "6. Conveying Non-Source Forms."

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

.RS 4

.IP "a." 4

.IX Item "a."

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

.IP "b." 4

.IX Item "b."

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

.IP "c." 4

.IX Item "c."

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

.IP "d." 4

.IX Item "d."

Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no

further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

.IP "e." 4

.IX Item "e."

Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

.RE

.RS 4

.Sp

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

.Sp

A *(L"User Product*(R" is either (1) a *(L"consumer product*(R", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation

into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, \&*(L"normally used*(R" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

.Sp

\&*(L"Installation Information*(R" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object

code is in no case prevented or interfered with solely because modification has been made.

.Sp

If you convey an object code work under this section in, or with, or

specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in \s-1ROM\s0).

.Sp

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

.Sp

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

.RE

.IP "7. Additional Terms." 4

.IX Item "7. Additional Terms."

\&*(L"Additional permissions\"*(R" are terms that supplement the terms of this License by making exceptions from one or more of its conditions.

Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately

under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

.Sp

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.Sp

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

.RS 4

.IP "a." 4

.IX Item "a."

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The <acronym>GNU</acronym> General Public License is a free, copyleft license for software and other kinds of works.

</para>

<para>

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the <acronym>GNU</acronym>

General Public License is intended to guarantee your

freedom to share and change all versions of a program to make sure it remains free software for all its users. We, the Free Software Foundation, use the <acronym>GNU</acronym> General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

</para>

<para>

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

know you can do these things.

</para>

<para>

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender

the rights. Therefore, you have certain

responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

</para>

<para>

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

</para>

<para>

Developers that use the <acronym>GNU</acronym> <acronym>GPL</acronym> protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

</para>

<para>

For the developers and authors protection, the <acronym>GPL</acronym> clearly explains that there is no warranty for this free software. For both users and authors sake, the <acronym>GPL</acronym> requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

</para>

<para>

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 <acronym>GPL</acronym> 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 <acronym>GPL</acronym>, as needed to protect the freedom of users.

</para>

<para>

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 <acronym>GPL</acronym>

assures that patents cannot be used to render the program non-free.

</para>

<para>

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

</para>

<bridgehead>

TERMS AND CONDITIONS

</bridgehead>

<bridgehead xml:id="gpl-3-definitions" renderas="sect1">

0. Definitions.

</bridgehead>

<para>

This License refers to version 3 of the <acronym>GNU</acronym> General Public License.

</para>

<para>

Copyright also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

</para>

<para>

The Program refers to any copyrightable work licensed under

this License. Each licensee is addressed as you.

Licensees and recipients may be individuals or organizations.

</para>

<para>

To modify a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a modified version of the earlier work or a work based on the earlier work.

</para>

<para>

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

</para>

<para>

To propagate a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

</para>

<para>

To convey a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

</para>

<para>

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

</para>

<bridgehead xml:id="SourceCode" renderas="sect1">

1. Source Code.

</bridgehead>

<para>

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

</para>

<para>

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.

</para>

<para>

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.

</para>

<para>

The Corresponding Source for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the works System Libraries, or general-purpose tools or generally available free

programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

</para>

<para>

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

</para>

<para>

The Corresponding Source for a work in source code form is that same work.

</para>

<bridgehead xml:id="BasicPermissions" renderas="sect1">

2. Basic Permissions.

</bridgehead>

<para>

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

</para>

<para>

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force.

You

may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

</para>

<para>

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

</para>

<bridgehead xml:id="Protecting" renderas="sect1">

3. Protecting Users Legal Rights From Anti-Circumvention Law.

</bridgehead>

<para>

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

</para>

<para>

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the works users, your or third parties legal rights to forbid circumvention of technological measures.

</para>

<bridgehead xml:id="ConveyingVerbatim" renderas="sect1">

4. Conveying Verbatim Copies.

</bridgehead>

<para>

You may convey verbatim copies of the Programs source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

</para>

<para>

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

</para>

<bridgehead xml:id="ConveyingModified" renderas="sect1">

5. Conveying Modified Source Versions.

</bridgehead>

<para>

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

</para>

<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">

<listitem>

<para>

The work must carry prominent notices stating that you modified it, and giving a relevant date.

The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to keep intact all notices.

You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

If the work has interactive user interfaces, each must display

Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an aggregate if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilations users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You

may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable

Corresponding Source under the terms of this License, in one of these ways:

</para>

<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">

<listitem>

<para>

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

</para>

</listitem>

<listitem>

<para>

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.

</para>

</listitem>

<listitem>

<para>

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.

</para>

</listitem>

<listitem>

<para>

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.

</para>

</listitem>

<listitem>

<para>

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.

</para>

</listitem>

</orderedlist>

<para>

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

</para>

<para>

A User Product is either (1) a consumer product, which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, normally used refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

</para>

<para>

Installation Information for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

</para>

<para>

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized),

the Corresponding

Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in

</para>

<para>

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

</para>

<para>

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

</para>

<bridgehead xml:id="AdditionalTerms" renderas="sect1">

7. Additional Terms.

</bridgehead>

<para>

Additional permissions are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

</para>

<para>

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

</para>

<para>

Notwithstanding any other provision of this License, for material you add

to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

</para>

<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">

<listitem>

<para>

Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

</para>

</listitem>

<listitem>

<para>

Requiring preservation of specified reasonable legal notices or author

attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

</para>

</listitem>

<listitem>

<para>

Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

</para>

</listitem>

<listitem>

<para>

Limiting the use for publicity purposes of names of licensors or authors of the material; or

</para>

</listitem>

<listitem>

<para>

Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

</para>

</listitem>

<listitem>

<para>

Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any

liability that these contractual assumptions directly impose on those licensors and authors.

</para>

</listitem>

</orderedlist>

<para>

All other non-permissive additional terms are considered further restrictions within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

</para>

<para>

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

</para>

<para>

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

</para>

<bridgehead xml:id="gpl-3-termination" renderas="sect1">

8. Termination.

</bridgehead>

<para>

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

</para>

<para>

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license,

and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

</para>

<para>

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

</para>

<para>

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

</para>

<bridgehead xml:id="AcceptanceNotRequired"

renderas="sect1">

9. Acceptance Not Required for Having Copies.

</bridgehead>

<para>

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

</para>

<bridgehead xml:id="AutomaticDownstream" renderas="sect1">

10. Automatic Licensing of Downstream Recipients.

</bridgehead>

<para>

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that

work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

</para>

<para>

An entity transaction is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

</para>

<para>

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty,

or other charge for exercise of rights granted under

this License, and you may not initiate litigation (including a cross-claim

or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

</para>

<bridgehead xml:id="Patents" renderas="sect1">

11. Patents.

</bridgehead>

<para>

A contributor is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributors contributor version.

</para>

<para>

A contributors essential patent claims are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, control includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

</para>

<para>

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributors essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

</para>

<para>

In the following three paragraphs, a patent license is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To grant such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

</para>

<para>

If you convey a covered work, knowingly relying on a patent license, and the

Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. Knowingly

relying means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipients use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

</para>

<para>

If, pursuant to or in connection with a single transaction or arrangement, you convey,
or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

</para>

<para>

A patent license is discriminatory if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered

work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

</para>

<para>

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

</para>

<bridgehead xml:id="NoSurrender" renderas="sect1">

12. No Surrender of Others Freedom.

</bridgehead>

<para>

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously
your obligations under this

License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the

Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

</para>

<bridgehead xml:id="UsedWithAGPL" renderas="sect1">

13. Use with the <acronym>GNU</acronym> Affero General Public License.

</bridgehead>

<para>

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the <acronym>GNU</acronym> Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the <acronym>GNU</acronym>

Affero General Public License,

section 13, concerning interaction through a network will apply to the combination as such.

</para>

<bridgehead xml:id="RevisedVersions" renderas="sect1">

14. Revised Versions of this License.

</bridgehead>

<para>

The Free Software Foundation may publish revised and/or new versions of the <acronym>GNU</acronym> General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

</para>

<para>

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the <acronym>GNU</acronym> General Public License or any later version applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify

a version number of the

<acronym>GNU</acronym> General Public License, you may choose any version ever published by the Free Software Foundation.

</para>

<para>

If the Program specifies that a proxy can decide which future versions of the <acronym>GNU</acronym> General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

</para>

<para>

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

</para>

<bridgehead xml:id="WarrantyDisclaimer" renderas="sect1">

15. Disclaimer of Warranty.

</bridgehead>

<para>

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE

THE PROGRAM AS IS WITHOUT WARRANTY OF

ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

</para>

<bridgehead xml:id="LiabilityLimitation" renderas="sect1">

16. Limitation of Liability.

</bridgehead>

<para>

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES

OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),

EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

</para>

<bridgehead xml:id="InterpretationSecs1516" renderas="sect1">

17. Interpretation of Sections 15 and 16.

</bridgehead>

<para>

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

</para>

<bridgehead>

END OF TERMS AND CONDITIONS

</bridgehead>

<bridgehead xml:id="HowToApply" renderas="sect1">

How to Apply These Terms to Your New Programs

</bridgehead>

<para>

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.

</para>

<para>

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

</para>

<screen>

<replaceable>one line to give the programs name and a brief idea of what it does.</replaceable>
Copyright (C) <replaceable>year</replaceable> <replaceable>name of author</replaceable>

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along with this program. If not, see <link xmlns:xlink="http://www.w3.org/1999/xlink"
xlink:href="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</link>.

</screen>

<para>

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

</para>

<para>

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

</para>

<screen>

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

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This is free software, and you are welcome to redistribute it
under certain conditions; type <literal>show
c</literal> for details.

</screen>

<para>

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<literal>show c</literal> should show the appropriate parts of

the General Public License. Of course, your programs commands might be different; for a GUI interface, you would use an about box.

</para>

<para>

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<acronym>GNU</acronym> <acronym>GPL</acronym>, see

<link xmlns:xlink="http://www.w3.org/1999/xlink"

xlink:href="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</link>.

</para>

<para>

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</para>

</appendix>

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Version 3, 29 June 2007

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-----	-----
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```
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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"><html
xmlns="http://www.w3.org/1999/xhtml"><head><meta http-equiv="Content-Type" content="text/html;
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/><meta name="keywords" content="ISO C++, library" /><meta name="keywords" content="ISO C++, runtime,
library" /><link rel="home" href=" ../index.html" title="The GNU C++ Library" /><link rel="up" href="status.html"
title="Chapter1.Status" /><link rel="prev" href="status.html" title="Chapter1.Status" /><link rel="next"
href="bugs.html" title="Bugs" /></head><body><div class="navheader"><table width="100%"
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align="center">Chapter1.Status</th><td
width="20%" align="right"><a accesskey="n" href="bugs.html">Next</a></td></tr></table><hr /></div><div
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1.78 o-profile 1.3.0-r0

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1.79 python-dbus 1.2.8-r0

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1.80 net-tools 1.60-26-r0

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*/
#include "config.h"

#if HAVE_AFNETROM || HAVE_HWNETROM
#include <sys/types.h>
#include <sys/ioctl.h>
```

```

#include <sys/socket.h>
#include <net/if_arp.h>
#if (__GLIBC__ > 2) || (__GLIBC__ == 2 && __GLIBC_MINOR__ >= 1)
#include <netax25/ax25.h>
#else
#include <linux/ax25.h>
#endif
#include <stdlib.h>
#include <stdio.h>
#include <ctype.h>
#include <errno.h>
#include <fcntl.h>
#include <string.h>
#include <termios.h>
#include <unistd.h>
#include "net-support.h"
#include "pathnames.h"
#include "intl.h"
#include "util.h"

```

```
static char netrom_errmsg[128];
```

```
extern struct aftype netrom_aftype;
```

```

static char *NETROM_print(unsigned char *ptr)
{
    static char buff[8];
    int i;

    for (i = 0; i < 6; i++) {
        buff[i] = ((ptr[i] & 0377) >> 1);
        if (buff[i] == ' ')
            buff[i] = '\0';
    }
    buff[6] = '\0';
    i = ((ptr[6] & 0x1E) >> 1);
    if (i != 0)
        sprintf(&buff[strlen(buff)], "-%d", i);
    return (buff);
}

```

```
/* Display an AX.25 socket address. */
```

```

static char *NETROM_sprint(struct sockaddr *sap, int numeric)
{
    char buf[64];
    if (sap->sa_family == 0xFFFF || sap->sa_family == 0)
        return safe_strncpy(buf, _("[NONE SET]"), sizeof(buf));
}

```

```

    return (NETROM_print(((struct sockaddr_ax25 *) sap)->sax25_call.ax25_call));
}

static int NETROM_input(int type, char *bufp, struct sockaddr *sap)
{
    unsigned char *ptr;
    char *orig, c;
    unsigned int i;

    sap->sa_family = netrom_aftype.af;
    ptr = ((struct sockaddr_ax25 *) sap)->sax25_call.ax25_call;

    /* First, scan and convert the basic callsign. */
    orig = bufp;
    i = 0;
    while ((*bufp != '\0') && (*bufp
    != '-') && (i < 6)) {
        c = *bufp++;
        if (islower(c))
            c = toupper(c);
        if (!(isupper(c) || isdigit(c))) {
            safe_strncpy(netrom_errmsg, _("Invalid callsign"), sizeof(netrom_errmsg));
#ifdef DEBUG
            fprintf(stderr, "netrom_input(%s): %s !\n", netrom_errmsg, orig);
#endif
            errno = EINVAL;
            return (-1);
        }
        *ptr++ = (unsigned char) ((c << 1) & 0xFE);
        i++;
    }

    /* Callsign too long? */
    if ((i == 6) && (*bufp != '-') && (*bufp != '\0')) {
        safe_strncpy(netrom_errmsg, _("Callsign too long"), sizeof(netrom_errmsg));
#ifdef DEBUG
        fprintf(stderr, "netrom_input(%s): %s !\n", netrom_errmsg, orig);
#endif
        errno = E2BIG;
        return (-1);
    }

    /* Nope, fill out the address bytes with blanks. */
    while (i++ < sizeof(ax25_address) - 1) {
        *ptr++ = (unsigned char) ((' ' << 1) & 0xFE);
    }

    /* See if we need to add an SSID field. */

```



```

    if (*bufp == '-') {
i = atoi(++bufp);
*ptr = (unsigned char) ((i << 1) & 0xFE);
    }
else {
*ptr = (unsigned char) '\0';
    }

    /* All done. */
#ifdef DEBUG
    fprintf(stderr, "netrom_input(%s): ", orig);
    for (i = 0; i < sizeof(ax25_address); i++)
        fprintf(stderr, "%02X ", sap->sa_data[i] & 0377);
    fprintf(stderr, "\n");
#endif

    return (0);
}

/* Display an error message. */
static void NETROM_herror(char *text)
{
    if (text == NULL)
        fprintf(stderr, "%s\n", netrom_errmsg);
    else
        fprintf(stderr, "%s: %s\n", text, netrom_errmsg);
}

static int NETROM_hinput(char *bufp, struct sockaddr *sap)
{
    if (NETROM_input(0, bufp, sap) < 0)
        return (-1);
    sap->sa_family = ARPHRD_NETROM;
    return (0);
}

#if 0
/* Set the line discipline of a terminal line. */
static int KISS_set_disc(int fd, int disc)
{
    if (ioctl(fd, TIOCSETD, &disc) < 0) {
        fprintf(stderr, "KISS_set_disc(%d): %s\n", disc, strerror(errno));
        return (-errno);
    }
    return (0);
}

```

```

/* Start the KISS encapsulation on the file descriptor.
 */
static int KISS_init(int fd)
{
    if (KISS_set_disc(fd, N_SLIP) < 0)
return (-1);
    if (ioctl(fd, SIOCSIFENCAP, 4) < 0)
return (-1);
    return (0);
}
#endif

struct hwtype netrom_hwtype =
{
    "netrom", NULL, /* "AMPR NET/ROM", */ ARPHRD_NETROM, 7,
    NETROM_print, NETROM_hinput, NULL, 0
};

struct aftype netrom_aftype =
{
    "netrom", NULL, /* "AMPR NET/ROM", */ AF_NETROM, 7,
    NETROM_print, NETROM_sprint, NETROM_input, NETROM_herror,
    NULL, NULL, NULL,
    -1,
    "/proc/net/nr"
};

```

```

#endif /* HAVE_AFNETROM */
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```

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1.87 Izo 2.10-r0

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/* compr1c.h --

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Markus F.X.J. Oberhumer
<markus@oberhumer.com>
<http://www.oberhumer.com/opensource/lzo/>
*/

```
#define LZO_NEED_DICT_H 1
#include "config1c.h"
```

```
#if !defined(COMPRESS_ID)
#define COMPRESS_ID    LZO_PP_ECONCAT2(DD_BITS,CLEVEL)
#endif
```

```
#include "lzo1b_c.ch"
```

```
/*
//
***/
```

```
#define LZO_COMPRESS \
    LZO_PP_ECONCAT3(lzo1c_,COMPRESS_ID,_compress)
```

```
#define LZO_COMPRESS_FUNC \
    LZO_PP_ECONCAT3(_lzo1c_,COMPRESS_ID,_compress_func)
```

```
/*
//
***/
```

```
const lzo_compress_t LZO_COMPRESS_FUNC = do_compress;
```

```

LZO_PUBLIC(int)
LZO_COMPRESS ( const lzo_bytep in, lzo_uint in_len,
                lzo_bytep out, lzo_uintp out_len,
                lzo_voidp wrkmem )
{
    return _lzo1c_do_compress(in,in_len,out,out_len,wrkmem,do_compress);
}

/*
vim:set ts=4 sw=4 et: */

```

1.88 wget 1.19.5-r0

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Version 3, 29 June 2007

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/* Utility functions for writing WARC files.

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```
#include "wget.h"
#include "hash.h"
#include "utils.h"
#include "version.h"
#include "dirname.h"
#include "url.h"
```

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <time.h>
#include <tmpdir.h>
#include <sha1.h>
#include <base32.h>
#include <unistd.h>
#ifdef HAVE_LIBZ
#include <zlib.h>
#endif
```

```
#ifdef HAVE_LIBUUID
#include <uuid/uuid.h>
#elif HAVE_UUID_CREATE
#include <uuid.h>
#endif
```

```
#include "warc.h"
#include "exits.h"
```

```
#ifdef WINDOWS
/* we need this on Windows to have O_TEMPORARY defined */
# include <fcntl.h>
# include <rpc.h>
#endif
```

```
#ifndef O_TEMPORARY
#define O_TEMPORARY 0
```

```

#endif

#include "warc.h"
#include
"exits.h"

/* The log file (a temporary file that contains a copy
  of the wget log). */
static FILE *warc_log_fp;

/* The manifest file (a temporary file that contains the
  warcinfo uuid of every file in this crawl). */
static FILE *warc_manifest_fp;

/* The current WARC file (or NULL, if WARC is disabled). */
static FILE *warc_current_file;

#ifdef HAVE_LIBZ
/* The gzip stream for the current WARC file
  (or NULL, if WARC or gzip is disabled). */
static gzFile warc_current_gzfile;

/* The offset of the current gzip record in the WARC file. */
static off_t warc_current_gzfile_offset;

/* The uncompressed size (so far) of the current record. */
static off_t warc_current_gzfile_uncompressed_size;
#endif

/* This is true until a warc_write_* method fails. */
static bool warc_write_ok;

/* The current CDX file (or NULL, if CDX is disabled). */
static FILE *warc_current_cdx_file;

/* The record id of the warcinfo record of the current WARC file. */
static
char warc_current_warcinfo_uuid_str[48];

/* The file name of the current WARC file. */
static char *warc_current_filename;

/* The serial number of the current WARC file. This number is
  incremented each time a new file is opened and is used in the
  WARC file's filename. */
static int warc_current_file_number;

```

```

/* The table of CDX records, if deduplication is enabled. */
static struct hash_table * warc_cdx_dedup_table;

static bool warc_start_new_file (bool meta);

struct warc_cdx_record
{
    char *url;
    char *uuid;
    char digest[SHA1_DIGEST_SIZE];
};

static unsigned long
warc_hash_sha1_digest (const void *key)
{
    /* We just use some of the first bytes of the digest. */
    unsigned long v = 0;
    memcpy (&v, key, sizeof (unsigned long));
    return v;
}

static int
warc_cmp_sha1_digest (const void *digest1, const void *digest2)
{
    return !memcmp (digest1, digest2, SHA1_DIGEST_SIZE);
}

/* Writes SIZE bytes from BUFFER to the current
   WARC file,
   through gzwrite if compression is enabled.
   Returns the number of uncompressed bytes written. */
static size_t
warc_write_buffer (const char *buffer, size_t size)
{
    #ifdef HAVE_LIBZ
    if (warc_current_gzfile)
    {
        warc_current_gzfile_uncompressed_size += size;
        return gzwrite (warc_current_gzfile, buffer, size);
    }
    else
    #endif
    return fwrite (buffer, 1, size, warc_current_file);
}

```

```

/* Writes STR to the current WARC file.
Returns false and set warc_write_ok to false if there
is an error. */
static bool
warc_write_string (const char *str)
{
    size_t n;

    if (!warc_write_ok)
        return false;

    n = strlen (str);
    if (n != warc_write_buffer (str, n))
        warc_write_ok = false;

    return warc_write_ok;
}

#define EXTRA_GZIP_HEADER_SIZE 14
#define GZIP_STATIC_HEADER_SIZE 10
#define FLG_FEXTRA      0x04
#define OFF_FLG         3

/* Starts a new WARC record. Writes the version header.
If opt.warc_maxsize
is set and the current file is becoming
too large, this will open a new WARC file.

If compression is enabled, this will start a new
gzip stream in the current WARC file.

Returns false and set warc_write_ok to false if there
is an error. */
static bool
warc_write_start_record (void)
{
    if (!warc_write_ok)
        return false;

    fflush (warc_current_file);
    if (opt.warc_maxsize > 0 && ftello (warc_current_file) >= opt.warc_maxsize)
        warc_start_new_file (false);

#ifdef HAVE_LIBZ
    /* Start a GZIP stream, if required. */
    if (opt.warc_compression_enabled)
        {

```

```

/* Record the starting offset of the new record. */
warc_current_gzfile_offset = ftello (warc_current_file);

/* Reserve space for the extra GZIP header field.
   In warc_write_end_record we will fill this space
   with information about the uncompressed and
   compressed size of the record. */
fseek (warc_current_file, EXTRA_GZIP_HEADER_SIZE,
SEEK_CUR);
fflush (warc_current_file);

/* Start a new GZIP stream. */
warc_current_gzfile = gzdopen (dup (fileno (warc_current_file)), "wb9");
warc_current_gzfile_uncompressed_size = 0;

if (warc_current_gzfile == NULL)
{
    logprintf (LOG_NOTQUIET,
_("Error opening GZIP stream to WARC file.\n"));
    warc_write_ok = false;
    return false;
}
}
#endif

warc_write_string ("WARC/1.0\r\n");
return warc_write_ok;
}

/* Writes a WARC header to the current WARC record.
   This method may be run after warc_write_start_record and
   before warc_write_block_from_file. */
static bool
warc_write_header (const char *name, const char *value)
{
    if (value)
    {
        warc_write_string (name);
        warc_write_string (": ");
        warc_write_string (value);
        warc_write_string ("\r\n");
    }
    return warc_write_ok;
}

/* Writes a WARC header with a URI as value to
   the current WARC record.
   This method may be run after warc_write_start_record and

```

```

    before warc_write_block_from_file. */
static bool
warc_write_header_uri (const char *name, const char *value)
{
    if (value)
    {
        warc_write_string (name);
        warc_write_string (": <");
        warc_write_string (value);
        warc_write_string (">\r\n");
    }
    return warc_write_ok;
}

/* Copies the contents of DATA_IN to the WARC record.
   Adds a Content-Length header to the WARC record.
   Run this method after warc_write_header,
   then run warc_write_end_record. */
static bool
warc_write_block_from_file (FILE *data_in)
{
    /* Add the Content-Length header. */
    char content_length[MAX_INT_TO_STRING_LEN(off_t)];
    char buffer[BUFSIZ];
    size_t s;

    fseeko (data_in, 0L, SEEK_END);
    number_to_string (content_length, ftello (data_in));
    warc_write_header ("Content-Length", content_length);

    /* End of the WARC header section. */
    warc_write_string ("\r\n");

    if (fseeko (data_in, 0L, SEEK_SET) != 0)
        warc_write_ok = false;

    /* Copy the data in the file to the WARC record. */
    while (warc_write_ok && (s = fread (buffer, 1, BUFSIZ, data_in)) > 0)
    {
        if (warc_write_buffer (buffer, s) < s)
            warc_write_ok = false;
    }

    return warc_write_ok;
}

/* Run this method to close the current WARC record.

```

If compression is enabled, this method closes the current GZIP stream and fills the extra GZIP header with the uncompressed and compressed length of the record. */

static bool

warc_write_end_record (void)

{

warc_write_buffer ("\r\n\r\n", 4);

#ifdef HAVE_LIBZ

/* We start a new gzip stream for each record. */

if (warc_write_ok && warc_current_gzfile)

{

char extra_header[EXTRA_GZIP_HEADER_SIZE];

char static_header[GZIP_STATIC_HEADER_SIZE];

off_t current_offset, uncompressed_size, compressed_size;

size_t result;

if (gzclose (warc_current_gzfile)

!= Z_OK)

{

warc_write_ok = false;

return false;

}

fflush (warc_current_file);

fseeko (warc_current_file, 0, SEEK_END);

/* The WARC standard suggests that we add 'skip length' data in the extra header field of the GZIP stream.

In warc_write_start_record we reserved space for this extra header.

This extra space starts at warc_current_gzfile_offset and fills EXTRA_GZIP_HEADER_SIZE bytes. The static GZIP header starts at warc_current_gzfile_offset + EXTRA_GZIP_HEADER_SIZE.

We need to do three things:

1. Move the static GZIP header to warc_current_gzfile_offset;
2. Set the FEXTRA flag in the GZIP header;
3. Write the extra GZIP header after the static header, that is, starting at warc_current_gzfile_offset + GZIP_STATIC_HEADER_SIZE.

*/

/* Calculate the uncompressed and compressed sizes. */

current_offset = ftello (warc_current_file);

uncompressed_size = current_offset - warc_current_gzfile_offset;

compressed_size = warc_current_gzfile_uncompressed_size;


```

/* Go back to the static GZIP header. */
fseeko (warc_current_file, warc_current_gzfile_offset
        + EXTRA_GZIP_HEADER_SIZE, SEEK_SET);

/* Read the header. */
result = fread (static_header, 1, GZIP_STATIC_HEADER_SIZE,
               warc_current_file);
if (result != GZIP_STATIC_HEADER_SIZE)
{
    warc_write_ok = false;
    return false;
}

/* Set the FEXTRA flag in the flags byte of the header. */
static_header[OFF_FLG] = static_header[OFF_FLG] | FLG_FEXTRA;

/* Write the header back to the file, but starting at
   warc_current_gzfile_offset. */
fseeko (warc_current_file, warc_current_gzfile_offset, SEEK_SET);
fwrite (static_header, 1, GZIP_STATIC_HEADER_SIZE, warc_current_file);

/* Prepare the extra GZIP header. */
/* XLEN, the length of the extra header fields. */
extra_header[0] = ((EXTRA_GZIP_HEADER_SIZE - 2) & 255);
extra_header[1] = ((EXTRA_GZIP_HEADER_SIZE - 2) >> 8) & 255;
/* The extra header field identifier for the WARC skip length. */
extra_header[2] = 's';
extra_header[3] = 'l';
/* The size of the field value (8 bytes). */
extra_header[4] = (8 & 255);
extra_header[5] = ((8 >> 8) & 255);
/* The size of the uncompressed record. */
extra_header[6] = (uncompressed_size & 255);
extra_header[7] = (uncompressed_size >> 8) & 255;
extra_header[8] = (uncompressed_size >> 16) & 255;
extra_header[9] = (uncompressed_size >> 24) & 255;
/* The size of the compressed record. */
extra_header[10] = (compressed_size & 255);
extra_header[11] = (compressed_size >> 8) & 255;
extra_header[12] = (compressed_size
>> 16) & 255;
extra_header[13] = (compressed_size >> 24) & 255;

/* Write the extra header after the static header. */
fseeko (warc_current_file, warc_current_gzfile_offset
        + GZIP_STATIC_HEADER_SIZE, SEEK_SET);
fwrite (extra_header, 1, EXTRA_GZIP_HEADER_SIZE, warc_current_file);

```

```

    /* Done, move back to the end of the file. */
    fflush (warc_current_file);
    fseeko (warc_current_file, 0, SEEK_END);
}
#endif /* HAVE_LIBZ */

return warc_write_ok;
}

/* Writes the WARC-Date header for the given timestamp to
the current WARC record.
If timestamp is NULL, the current time will be used. */
static bool
warc_write_date_header (const char *timestamp)
{
    char current_timestamp[21];

    return warc_write_header ("WARC-Date", timestamp ? timestamp :
                             warc_timestamp (current_timestamp, sizeof(current_timestamp)));
}

/* Writes the WARC-IP-Address header for the given IP to
the current WARC record. If IP is NULL, no header will
be written. */
static bool
warc_write_ip_header (const ip_address *ip)
{
    if (ip != NULL)
        return warc_write_header ("WARC-IP-Address", print_address (ip));
    else
        return warc_write_ok;
}

/* warc_sha1_stream_with_payload is a modified copy of sha1_stream
from gnu/lib/sha1.c. This version calculates two digests in one go.

Compute SHA1 message digests for bytes read from STREAM. The
digest of the complete file will be written into the 16 bytes
beginning at RES_BLOCK.

If payload_offset >= 0, a second digest will be calculated of the
portion of the file starting at payload_offset and continuing to
the end of the file. The digest number will be written into the
16 bytes beginning at RES_PAYLOAD. */
static int
warc_sha1_stream_with_payload (FILE *stream, void *res_block, void *res_payload,

```

```

        off_t payload_offset)
{
#define BLOCKSIZE 32768

    struct sha1_ctx ctx_block;
    struct sha1_ctx ctx_payload;
    off_t pos;
    off_t sum;

    char *buffer = xmalloc (BLOCKSIZE + 72);

    /* Initialize the computation context. */
    sha1_init_ctx (&ctx_block);
    if (payload_offset >= 0)
        sha1_init_ctx (&ctx_payload);

    pos = 0;

    /* Iterate over full file contents. */
    while (1)
    {
        /* We read the file in blocks of BLOCKSIZE bytes. One call of the
           computation function processes the whole buffer so that with the
           next round of the loop another block can be read. */
        off_t n;
        sum = 0;

        /* Read block. Take care for partial reads. */
        while (1)
        {
            n = fread (buffer + sum, 1, BLOCKSIZE - sum, stream);

            sum += n;
            pos += n;

            if (sum == BLOCKSIZE)
                break;

            if (n == 0)
            {
                /* Check for the error flag IFF N == 0, so that we don't
                   exit the loop
                   after a partial read due to e.g., EAGAIN
                   or EWOULDBLOCK. */
                if (ferror (stream))
                {
                    xfree (buffer);
                    return 1;
                }
            }
        }
    }
}

```

```

    }
    goto process_partial_block;
}

/* We've read at least one byte, so ignore errors. But always
   check for EOF, since feof may be true even though N > 0.
   Otherwise, we could end up calling fread after EOF. */
if (feof (stream))
    goto process_partial_block;
}

/* Process buffer with BLOCKSIZE bytes. Note that
   BLOCKSIZE % 64 == 0
*/
sha1_process_block (buffer, BLOCKSIZE, &ctx_block);
if (payload_offset >= 0 && payload_offset < pos)
{
    /* At least part of the buffer contains data from payload. */
    off_t start_of_payload = payload_offset - (pos - BLOCKSIZE);
    if (start_of_payload <= 0)
        /* All bytes in the buffer belong to the payload. */
        start_of_payload = 0;

    /* Process the payload part of the buffer.
       Note: we can't use sha1_process_block here even if we
       process the complete buffer. Because the payload doesn't
       have to start with a full block, there may still be some
       bytes left from the previous buffer. Therefore, we need
       to continue with sha1_process_bytes. */
    sha1_process_bytes (buffer + start_of_payload,
                       BLOCKSIZE - start_of_payload, &ctx_payload);
}
}

process_partial_block::

/* Process any remaining bytes. */
if (sum > 0)
{
    sha1_process_bytes (buffer, sum, &ctx_block);
    if (payload_offset >= 0 && payload_offset < pos)
    {
        /* At least part of the buffer contains data from payload. */
        off_t start_of_payload = payload_offset - (pos - sum);
        if (start_of_payload <= 0)
            /* All bytes in the buffer belong to the payload. */
            start_of_payload = 0;
    }
}

```

```

        /* Process the payload part of the buffer. */
        sha1_process_bytes (buffer + start_of_payload,
                           sum - start_of_payload, &ctx_payload);
    }
}

/* Construct result in desired memory. */
sha1_finish_ctx (&ctx_block, res_block);
if (payload_offset >= 0)
    sha1_finish_ctx (&ctx_payload, res_payload);
xfree (buffer);
return 0;

#undef BLOCKSIZE
}

/* Converts the SHA1 digest to a base32-encoded string.
"sha1:DIGEST\0" (Allocates a new string for the response.) */
static char *
warc_base32_sha1_digest (const char *sha1_digest, char *sha1_base32, size_t sha1_base32_size)
{
    if (sha1_base32_size >= BASE32_LENGTH(SHA1_DIGEST_SIZE) + 5 + 1)
    {
        memcpy (sha1_base32, "sha1:", 5);
        base32_encode (sha1_digest, SHA1_DIGEST_SIZE, sha1_base32 + 5,

                      sha1_base32_size - 5);
    }
    else
        *sha1_base32 = 0;

    return sha1_base32;
}

/* Sets the digest headers of the record.
This method will calculate the block digest and, if payload_offset >= 0,
will also calculate the payload digest of the payload starting at the
provided offset. */
static void
warc_write_digest_headers (FILE *file, long payload_offset)
{
    if (opt.warc_digests_enabled)
    {
        /* Calculate the block and payload digests. */
        char sha1_res_block[SHA1_DIGEST_SIZE];
        char sha1_res_payload[SHA1_DIGEST_SIZE];

```

```

rewind (file);
if (warc_sha1_stream_with_payload (file, sha1_res_block,
    sha1_res_payload, payload_offset) == 0)
{
    char digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];

    warc_write_header ("WARC-Block-Digest",
        warc_base32_sha1_digest (sha1_res_block, digest, sizeof(digest)));

    if (payload_offset >= 0)
        warc_write_header
("WARC-Payload-Digest",
    warc_base32_sha1_digest (sha1_res_payload, digest, sizeof(digest)));
}
}
}

/* Fills timestamp with the current time and date.
The UTC time is formatted following ISO 8601, as required
for use in the WARC-Date header.
The timestamp will be 21 characters long. */
char *
warc_timestamp (char *timestamp, size_t timestamp_size)
{
    time_t rawtime = time (NULL);
    struct tm * timeinfo = gmtime (&rawtime);

    if (strftime (timestamp, timestamp_size, "%Y-%m-%dT%H:%M:%SZ", timeinfo) == 0 && timestamp_size > 0)
        *timestamp = 0;

    return timestamp;
}

/* Fills urn_str with a UUID in the format required
for the WARC-Record-Id header.
The string will be 47 characters long. */
#if HAVE_LIBUUID
void
warc_uuid_str (char *urn_str)
{
    char uuid_str[37];
    uuid_t record_id;

    uuid_generate (record_id);
    uuid_unparse (record_id, uuid_str);

    sprintf (urn_str, "<urn:uuid:%s>",

```

```

    uuid_str);
}
#elif HAVE_UUID_CREATE
void
warc_uuid_str (char *urn_str)
{
    char *uuid_str;
    uuid_t record_id;

    uuid_create (&record_id, NULL);
    uuid_to_string (&record_id, &uuid_str, NULL);

    sprintf (urn_str, "<urn:uuid:%s>", uuid_str);
    xfree (uuid_str);
}
#else
#ifdef WINDOWS

typedef RPC_STATUS (RPC_ENTRY * UuidCreate_proc) (UUID *);
typedef RPC_STATUS (RPC_ENTRY * UuidToString_proc) (UUID *, unsigned char **);
typedef RPC_STATUS (RPC_ENTRY * RpcStringFree_proc) (unsigned char **);

static int
windows_uuid_str (char *urn_str)
{
    static UuidCreate_proc pfn_UuidCreate = NULL;
    static UuidToString_proc pfn_UuidToString = NULL;
    static RpcStringFree_proc pfn_RpcStringFree = NULL;
    static int rpc_uuid_avail = -1;

    /* Rpcrt4.dll is not available on older versions of Windows, so we
       need to test its availability at run time. */
    if (rpc_uuid_avail == -1)
    {
        HMODULE hm_rpcrt4 = LoadLibrary ("Rpcrt4.dll");

        if (hm_rpcrt4)
        {
            pfn_UuidCreate =
                (UuidCreate_proc) GetProcAddress (hm_rpcrt4, "UuidCreate");
            pfn_UuidToString =
                (UuidToString_proc) GetProcAddress (hm_rpcrt4, "UuidToStringA");
            pfn_RpcStringFree =
                (RpcStringFree_proc) GetProcAddress (hm_rpcrt4, "RpcStringFreeA");
            if (pfn_UuidCreate && pfn_UuidToString && pfn_RpcStringFree)
                rpc_uuid_avail = 1;
            else

```

```

    rpc_uuid_avail = 0;
}
else
rpc_uuid_avail = 0;
}

if (rpc_uuid_avail)
{
    BYTE *uuid_str;
    UUID uuid;

    if (pfn_UuidCreate (&uuid) == RPC_S_OK)
    {
        if (pfn_UuidToString (&uuid, &uuid_str) == RPC_S_OK)
        {
            sprintf (urn_str, "<urn:uuid:%s>", uuid_str);
            pfn_RpcStringFree (&uuid_str);
            return 1;
        }
    }
    return 0;
}
#endif
/* Fills urn_str with a UUID based on random numbers in the format
required for the WARC-Record-Id header.
(See RFC 4122, UUID version 4.)

Note: this is a fallback method, it is much better
to use the
methods provided by libuuid.

The string will be 47 characters long. */
void
warc_uuid_str (char *urn_str)
{
    /* RFC 4122, a version 4 UUID with only random numbers */

    unsigned char uuid_data[16];
    int i;

#ifdef WINDOWS
    /* If the native method fails (expected on older Windows versions),
    use the fallback below. */
    if (windows_uuid_str (urn_str))
        return;
#endif

```



```

for (i=0; i<16; i++)
    uuid_data[i] = random_number (255);

/* Set the four most significant bits (bits 12 through 15) of the
 * time_hi_and_version field to the 4-bit version number */
uuid_data[6] = (uuid_data[6] & 0x0F) | 0x40;

/* Set the two most significant bits (bits 6 and 7) of the
 * clock_seq_hi_and_reserved to zero and one, respectively. */
uuid_data[8] = (uuid_data[8] & 0xBF) | 0x80;

sprintf (urn_str,
    "<urn:uuid:%02x%02x%02x%02x-%02x%02x-%02x%02x-%02x%02x-%02x%02x%02x%02x>",
    uuid_data[0], uuid_data[1], uuid_data[2],
    uuid_data[3], uuid_data[4],
    uuid_data[5], uuid_data[6], uuid_data[7], uuid_data[8], uuid_data[9],
    uuid_data[10], uuid_data[11], uuid_data[12], uuid_data[13], uuid_data[14],
    uuid_data[15]);
}
#endif

/* Write a warcinfo record to the current file.
 * Updates warc_current_warcinfo_uuid_str. */
static bool
warc_write_warcinfo_record (const char *filename)
{
    FILE *warc_tmp;
    char timestamp[22];
    char *filename_basename;

    /* Write warc-info record as the first record of the file. */
    /* We add the record id of this info record to the other records in the
     * file. */
    warc_uuid_str (warc_current_warcinfo_uuid_str);

    warc_timestamp (timestamp, sizeof(timestamp));

    filename_basename = base_name (filename);

    warc_write_start_record ();
    warc_write_header ("WARC-Type", "warcinfo");
    warc_write_header ("Content-Type", "application/warc-fields");
    warc_write_header ("WARC-Date", timestamp);
    warc_write_header ("WARC-Record-ID", warc_current_warcinfo_uuid_str);
    warc_write_header ("WARC-Filename", filename_basename);

    xfree (filename_basename);

```

```

/* Create content. */
warc_tmp = warc_tempfile ();
if (warc_tmp == NULL)
{
    return false;
}

fprintf (warc_tmp, "software: Wget/%s (%s)\r\n", version_string, OS_TYPE);
fprintf (warc_tmp, "format: WARC File Format 1.0\r\n");
fprintf (warc_tmp,
"conformsTo: http://bibnum.bnf.fr/WARC/WARC_ISO_28500_version1_latestdraft.pdf\r\n");
fprintf (warc_tmp, "robots: %s\r\n", (opt.use_robots ? "classic" : "off"));
fprintf (warc_tmp, "wget-arguments: %s\r\n", program_argstring);
/* Add the user headers, if any. */
if (opt.warc_user_headers)
{
    int i;
    for (i = 0; opt.warc_user_headers[i]; i++)
        fprintf (warc_tmp, "%s\r\n", opt.warc_user_headers[i]);
}
fprintf(warc_tmp, "\r\n");

warc_write_digest_headers (warc_tmp, -1);
warc_write_block_from_file (warc_tmp);
warc_write_end_record ();

if (! warc_write_ok)
    logprintf (LOG_NOTQUIET, _("Error writing warcinfo record to WARC file.\n"));

fclose (warc_tmp);
return warc_write_ok;
}

/* Opens a new WARC file.
   If META is true, generates a filename ending with 'meta.warc.gz'.

   This method will:
   1. close the current WARC file (if there is one);
   2. increment warc_current_file_number;
   3. open a new WARC file;
   4. write the initial warcinfo record.

   Returns true on success, false otherwise.
   */
static bool
warc_start_new_file (bool meta)
{

```

```

#ifdef __VMS
# define WARC_GZ "warc-gz"
#else /* def __VMS */
# define WARC_GZ "warc.gz"
#endif /* def __VMS [else] */

#ifdef HAVE_LIBZ
const char *extension = (opt.warc_compression_enabled ? WARC_GZ : "warc");
#else
const char *extension = "warc";
#endif

int base_filename_length;
char *new_filename;

if (opt.warc_filename == NULL)
    return false;

if (warc_current_file != NULL)
    fclose (warc_current_file);

*warc_current_warcinfo_uuid_str = 0;
xfree (warc_current_filename);

warc_current_file_number++;

base_filename_length = strlen (opt.warc_filename);
/* filename format: base + "-" + 5 digit serial number + ".warc.gz" */
new_filename = xmalloc (base_filename_length + 1 + 5 + 8 + 1);

warc_current_filename = new_filename;

/* If max size is enabled, we add a serial number to the file names. */
if (meta)
    sprintf (new_filename, "%s-meta.%s", opt.warc_filename, extension);
else if (opt.warc_maxsize > 0)
{
    sprintf (new_filename, "%s-%05d.%s", opt.warc_filename,
            warc_current_file_number, extension);
}
else
    sprintf (new_filename, "%s.%s", opt.warc_filename, extension);

logprintf (LOG_VERBOSE, _("Opening WARC file %s.\n\n"), quote (new_filename));

/* Open the WARC file. */
warc_current_file = fopen (new_filename, "wb+");
if (warc_current_file == NULL)

```

```

{
    logprintf (LOG_NOTQUIET, _("Error
opening WARC file %s.\n"),
               quote (new_filename));
    return false;
}

if (! warc_write_warcinfo_record (new_filename))
    return false;

/* Add warcinfo uuid to manifest. */
if (warc_manifest_fp)
    fprintf (warc_manifest_fp, "%s\n", warc_current_warcinfo_uuid_str);

return true;
}

/* Opens the CDX file for output. */
static bool
warc_start_cdx_file (void)
{
    int filename_length = strlen (opt.warc_filename);
    char *cdx_filename = alloca (filename_length + 4 + 1);
    memcpy (cdx_filename, opt.warc_filename, filename_length);
    memcpy (cdx_filename + filename_length, ".cdx", 5);
    warc_current_cdx_file = fopen (cdx_filename, "a+");
    if (warc_current_cdx_file == NULL)
        return false;

    /* Print the CDX header.
    *
    * a - original url
    * b - date
    * m - mime type
    * s - response code
    * k - new style checksum
    * r - redirect
    * M - meta tags
    * V - compressed arc file offset
    * g - file name
    * u - record-id
    */
    fprintf (warc_current_cdx_file, " CDX a b a m s k r M V g u\n");
    fflush (warc_current_cdx_file);

    return true;
}

```

```

#define CDX_FIELDSEP " \t\r\n"

/* Parse the CDX header and find the field numbers of the original url,
checksum and record ID fields. */
static bool
warc_parse_cdx_header (char *lineptr, int *field_num_original_url,
                      int *field_num_checksum, int *field_num_record_id)
{
    char *token;
    char *save_ptr;

    *field_num_original_url = -1;
    *field_num_checksum = -1;
    *field_num_record_id = -1;

    token = strtok_r (lineptr, CDX_FIELDSEP, &save_ptr);

    if (token != NULL && strcmp (token, "CDX") == 0)
    {
        int field_num = 0;
        while (token != NULL)
        {
            token = strtok_r (NULL, CDX_FIELDSEP, &save_ptr);
            if (token != NULL)
            {
                switch (token[0])
                {
                    {
                        case 'a':
                            *field_num_original_url =
field_num;
                            break;
                        case 'k':
                            *field_num_checksum = field_num;
                            break;
                        case 'u':
                            *field_num_record_id = field_num;
                            break;
                    }
                }
                field_num++;
            }
        }

        return *field_num_original_url != -1
            && *field_num_checksum != -1
            && *field_num_record_id != -1;
    }
}

```

```

/* Parse the CDX record and add it to the warc_cdx_dedup_table hash table. */
static void
warc_process_cdx_line (char *lineptr, int field_num_original_url,
                      int field_num_checksum, int field_num_record_id)
{
    char *original_url = NULL;
    char *checksum = NULL;
    char *record_id = NULL;
    char *token;
    char *save_ptr;
    int field_num = 0;

    /* Read this line to get the fields we need. */
    token = strtok_r (lineptr, CDX_FIELDSEP, &save_ptr);
    while (token != NULL)
    {
        char **val;
        if (field_num
== field_num_original_url)
            val = &original_url;
        else if (field_num == field_num_checksum)
            val = &checksum;
        else if (field_num == field_num_record_id)
            val = &record_id;
        else
            val = NULL;

        if (val != NULL)
            *val = strdup (token);

        token = strtok_r (NULL, CDX_FIELDSEP, &save_ptr);
        field_num++;
    }

    if (original_url != NULL && checksum != NULL && record_id != NULL)
    {
        /* For some extra efficiency, we decode the base32 encoded
        checksum value. This should produce exactly SHA1_DIGEST_SIZE
        bytes. */
        size_t checksum_l;
        char * checksum_v;
        base32_decode_alloc (checksum, strlen (checksum), &checksum_v,
                            &checksum_l);
        xfree (checksum);

        if (checksum_v != NULL && checksum_l == SHA1_DIGEST_SIZE)
        {
            /* This is a valid line with a valid checksum. */

```

```

    struct warc_cdx_record *rec;
    rec = xmalloc (sizeof (struct warc_cdx_record));
    rec->url = original_url;
    rec->uuid = record_id;
    memcpy (rec->digest, checksum_v, SHA1_DIGEST_SIZE);
    hash_table_put (warc_cdx_dedup_table, rec->digest, rec);
    xfree (checksum_v);
}
else
{
    xfree (original_url);
    xfree (checksum_v);
    xfree (record_id);
}
}
else
{
    xfree(checksum);
    xfree(original_url);
    xfree(record_id);
}
}

/* Loads the CDX file from opt.warc_cdx_dedup_filename and fills
   the warc_cdx_dedup_table. */
static bool
warc_load_cdx_dedup_file (void)
{
    FILE *f;
    char *lineptr = NULL;
    size_t n = 0;
    ssize_t line_length;
    int field_num_original_url = -1;
    int field_num_checksum = -1;
    int field_num_record_id = -1;

    f = fopen (opt.warc_cdx_dedup_filename, "r");
    if (f == NULL)
        return false;

    /* The first line should contain the CDX
       header.
       Format: " CDX x x x x x"
       where x are field type indicators. For our purposes, we only
       need 'a' (the original url), 'k' (the SHA1 checksum) and
       'u' (the WARC record id). */
    line_length = getline (&lineptr, &n, f);
    if (line_length != -1)

```

```

warc_parse_cdx_header (lineptr, &field_num_original_url,
                        &field_num_checksum, &field_num_record_id);

/* If the file contains all three fields, read the complete file. */
if (field_num_original_url == -1
    || field_num_checksum == -1
    || field_num_record_id == -1)
{
    if (field_num_original_url == -1)
        logprintf (LOG_NOTQUIET,
                    _("CDX file does not list original urls. (Missing column 'a'.)\n"));
    if (field_num_checksum == -1)
        logprintf (LOG_NOTQUIET,
                    _("CDX file does not list checksums. (Missing column 'k'.)\n"));
    if (field_num_record_id == -1)
        logprintf (LOG_NOTQUIET,
                    _("CDX file does not list record ids. (Missing
column 'u'.)\n"));
}
else
{
    int nrecords;

    /* Initialize the table. */
    warc_cdx_dedup_table = hash_table_new (1000, warc_hash_sha1_digest,
                                             warc_cmp_sha1_digest);

    do
    {
        line_length = getline (&lineptr, &n, f);
        if (line_length != -1)
        {
            warc_process_cdx_line (lineptr, field_num_original_url,
                                   field_num_checksum, field_num_record_id);
        }

    }
    while (line_length != -1);

    /* Print results. */
    nrecords = hash_table_count (warc_cdx_dedup_table);
    logprintf (LOG_VERBOSE, ngettext ("Loaded %d record from CDX.\n\n",
                                      "Loaded %d records from CDX.\n\n",
                                      nrecords),
               nrecords);
}

xfree (lineptr);

```



```

fclose (f);

return true;
}
#undef CDX_FIELDSEP

/*
Returns the existing duplicate CDX record for the given url and payload
digest. Returns NULL if the url is not found or if the payload digest
does not match, or if CDX deduplication is disabled. */
static struct warc_cdx_record *
warc_find_duplicate_cdx_record (const char *url, char *sha1_digest_payload)
{
    struct warc_cdx_record *rec_existing;

    if (warc_cdx_dedup_table == NULL)
        return NULL;

    rec_existing = hash_table_get (warc_cdx_dedup_table, sha1_digest_payload);

    if (rec_existing && strcmp (rec_existing->url, url) == 0)
        return rec_existing;
    else
        return NULL;
}

/* Initializes the WARC writer (if opt.warc_filename is set).
This should be called before any WARC record is written. */
void
warc_init (void)
{
    warc_write_ok = true;

    if (opt.warc_filename != NULL)
    {
        if (opt.warc_cdx_dedup_filename != NULL)
        {
            if (! warc_load_cdx_dedup_file ())
            {
                logprintf (LOG_NOTQUIET,
                    _("Could not read CDX file %s for deduplication.\n"),
                    quote (opt.warc_cdx_dedup_filename));
                exit (WGET_EXIT_GENERIC_ERROR);
            }
        }
    }

    warc_manifest_fp = warc_tempfile ();
    if (warc_manifest_fp == NULL)

```

```

{
    logprintf (LOG_NOTQUIET,
        _("Could not open temporary WARC manifest file.\n"));
    exit (WGET_EXIT_GENERIC_ERROR);
}

if (opt.warc_keep_log)
{
    warc_log_fp = warc_tempfile ();
    if (warc_log_fp == NULL)
    {
        logprintf (LOG_NOTQUIET,
            _("Could not open temporary WARC log file.\n"));
        exit (WGET_EXIT_GENERIC_ERROR);
    }
    log_set_warc_log_fp (warc_log_fp);
}

warc_current_file_number = -1;
if (! warc_start_new_file (false))
{
    logprintf (LOG_NOTQUIET, _("Could not open WARC
file.\n"));
    exit (WGET_EXIT_GENERIC_ERROR);
}

if (opt.warc_cdx_enabled)
{
    if (! warc_start_cdx_file ())
    {
        logprintf (LOG_NOTQUIET,
            _("Could not open CDX file for output.\n"));
        exit (WGET_EXIT_GENERIC_ERROR);
    }
}
}

/* Writes metadata (manifest, configuration, log file) to the WARC file. */
static void
warc_write_metadata (void)
{
    char manifest_uuid[48];
    FILE *warc_tmp_fp;

    /* If there are multiple WARC files, the metadata should be written to a separate file. */
    if (opt.warc_maxsize > 0)
        warc_start_new_file (true);

```

```

warc_uuid_str (manifest_uuid);

fflush (warc_manifest_fp);
warc_write_metadata_record (manifest_uuid,
                            "metadata://gnu.org/software/wget/warc/MANIFEST.txt",
                            NULL, NULL, NULL, "text/plain",
                            warc_manifest_fp,
-1);
/* warc_write_resource_record has closed warc_manifest_fp. */

warc_tmp_fp = warc_tempfile ();
if (warc_tmp_fp == NULL)
{
    logprintf (LOG_NOTQUIET, _("Could not open temporary WARC file.\n"));
    exit (WGET_EXIT_GENERIC_ERROR);
}
fflush (warc_tmp_fp);
fprintf (warc_tmp_fp, "%s\n", program_argstring);

warc_write_resource_record (NULL,
                            "metadata://gnu.org/software/wget/warc/wget_arguments.txt",
                            NULL, manifest_uuid, NULL, "text/plain",
                            warc_tmp_fp, -1);
/* warc_write_resource_record has closed warc_tmp_fp. */

if (warc_log_fp != NULL)
{
    warc_write_resource_record (NULL,
                                "metadata://gnu.org/software/wget/warc/wget.log",
                                NULL, manifest_uuid, NULL, "text/plain",
                                warc_log_fp, -1);
    /* warc_write_resource_record has closed warc_log_fp. */

    warc_log_fp = NULL;
    log_set_warc_log_fp (NULL);
}
}

/* Finishes the WARC writing.
   This should be called at the end of the program. */
void
warc_close (void)
{
    if (warc_current_file != NULL)
    {
        warc_write_metadata ();
        *warc_current_warcinfo_uuid_str = 0;
    }
}

```

```

    fclose (warc_current_file);
    warc_current_file = NULL;
}

if (warc_current_cdx_file != NULL)
{
    fclose (warc_current_cdx_file);
    warc_current_cdx_file = NULL;
}

if (warc_log_fp != NULL)
{
    fclose (warc_log_fp);
    log_set_warc_log_fp (NULL);
}
}

/* Creates a temporary file for writing WARC output.
   The temporary file will be created in opt.warc_tempdir.
   Returns the pointer to the temporary file, or NULL. */
FILE *
warc_tempfile (void)
{
    char filename[100];
    int fd;

    if (path_search (filename, 100, opt.warc_tempdir, "wget", true) == -1)
        return NULL;

#ifdef __VMS
    /* 2013-07-12 SMS.

       * mkostemp()+unlink()+fdopen() scheme causes trouble on VMS, so use
       * mktemp() to unquify the (VMS-style) name, and then use a normal
       * fopen() with a "create temp file marked for delete" option.
       */
    {
        char *tfn;

        tfn = mktemp (filename);          /* Get unique name from template. */
        if (tfn == NULL)
            return NULL;
        return fopen (tfn, "w+", "fop=tmd"); /* Create auto-delete temp file. */
    }
#else /* def __VMS */
    fd = mkostemp (filename, O_TEMPORARY);
    if (fd < 0)
        return NULL;
#endif

```

```

#if !O_TEMPORARY
if (unlink (filename) < 0)
{
    close(fd);
    return NULL;
}
#endif

return fdopen (fd, "wb+");
#endif /* def __VMS [else] */
}

/* Writes a request record to the WARC file.
url is the target uri of the request,
timestamp_str is the timestamp of the request (generated with warc_timestamp),
record_uuid is the uuid of the request (generated with warc_uuid_str),
body is a pointer to a file
containing the request headers and body.
ip is the ip address of the server (or NULL),
Calling this function will close body.
Returns true on success, false on error. */
bool
warc_write_request_record (const char *url, const char *timestamp_str,
                           const char *record_uuid, const ip_address *ip,
                           FILE *body, off_t payload_offset)
{
    warc_write_start_record ();
    warc_write_header ("WARC-Type", "request");
    warc_write_header_uri ("WARC-Target-URI", url);
    warc_write_header ("Content-Type", "application/http;msgtype=request");
    warc_write_date_header (timestamp_str);
    warc_write_header ("WARC-Record-ID", record_uuid);
    warc_write_ip_header (ip);
    warc_write_header ("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
    warc_write_digest_headers (body, payload_offset);
    warc_write_block_from_file (body);
    warc_write_end_record ();

    fclose (body);

    return warc_write_ok;
}

/* Writes a response
record to the CDX file.
url is the target uri of the request/response,

```

timestamp_str is the timestamp of the request that generated this response,
 (generated with warc_timestamp),
 mime_type is the mime type of the response body (will be printed to CDX),
 response_code is the HTTP response code (will be printed to CDX),
 payload_digest is the sha1 digest of the payload,
 redirect_location is the contents of the Location: header, or NULL (will be printed to CDX),
 offset is the position of the WARC record in the WARC file,
 warc_filename is the filename of the WARC,
 response_uuid is the uuid of the response.
 Returns true on success, false on error. */

static bool

```
warc_write_cdx_record (const char *url, const char *timestamp_str,
                      const char *mime_type, int response_code,
                      const char *payload_digest, const char *redirect_location,
                      off_t offset, const char
*warc_filename_GL_UNUSED,
                      const char *response_uuid)
{
    /* Transform the timestamp. */
    char timestamp_str_cdx[15];
    char offset_string[MAX_INT_TO_STRING_LEN(offset)];
    const char *checksum;

    memcpy (timestamp_str_cdx, timestamp_str, 4); /* "YYYY" "-" */
    memcpy (timestamp_str_cdx + 4, timestamp_str + 5, 2); /* "mm" "-" */
    memcpy (timestamp_str_cdx + 6, timestamp_str + 8, 2); /* "dd" "T" */
    memcpy (timestamp_str_cdx + 8, timestamp_str + 11, 2); /* "HH" ":" */
    memcpy (timestamp_str_cdx + 10, timestamp_str + 14, 2); /* "MM" ":" */
    memcpy (timestamp_str_cdx + 12, timestamp_str + 17, 2); /* "SS" "Z" */
    timestamp_str_cdx[14] = '\0';

    /* Rewrite the checksum. */
    if (payload_digest != NULL)
        checksum = payload_digest + 5; /* Skip the "sha1:" */
    else
        checksum = "-";

    if (mime_type == NULL || strlen(mime_type) == 0)
        mime_type = "-";
    if (redirect_location == NULL || strlen(redirect_location)
== 0)
        redirect_location = "-";
    else
        redirect_location = url_escape(redirect_location);

    number_to_string (offset_string, offset);

    /* Print the CDX line. */
```

```

fprintf (warc_current_cdx_file, "%s %s %s %s %d %s %s - %s %s %s\n", url,
        timestamp_str_cdx, url, mime_type, response_code, checksum,
        redirect_location, offset_string, warc_current_filename,
        response_uuid);
fflush (warc_current_cdx_file);

return true;
}

/* Writes a revisit record to the WARC file.
url is the target uri of the request/response,
timestamp_str is the timestamp of the request that generated this response
    (generated with warc_timestamp),
concurrent_to_uuid is the uuid of the request for that generated this response
    (generated with warc_uuid_str),
refers_to_uuid is the uuid of the original response
    (generated with warc_uuid_str),
payload_digest is the sha1 digest
of the payload,
ip is the ip address of the server (or NULL),
body is a pointer to a file containing the response headers (without payload).
Calling this function will close body.
Returns true on success, false on error. */
static bool
warc_write_revisit_record (const char *url, const char *timestamp_str,
        const char *concurrent_to_uuid, const char *payload_digest,
        const char *refers_to, const ip_address *ip, FILE *body)
{
    char revisit_uuid [48];
    char block_digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];
    char sha1_res_block[SHA1_DIGEST_SIZE];

    warc_uuid_str (revisit_uuid);

    sha1_stream (body, sha1_res_block);
    warc_base32_sha1_digest (sha1_res_block, block_digest, sizeof(block_digest));

    warc_write_start_record ();
    warc_write_header ("WARC-Type", "revisit");
    warc_write_header ("WARC-Record-ID", revisit_uuid);
    warc_write_header ("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
    warc_write_header ("WARC-Concurrent-To", concurrent_to_uuid);
    warc_write_header ("WARC-Refers-To", refers_to);
    warc_write_header ("WARC-Profile", "http://netpreserve.org/warc/1.0/revisit/identical-payload-digest");
    warc_write_header ("WARC-Truncated", "length");
    warc_write_header_uri ("WARC-Target-URI", url);
    warc_write_date_header (timestamp_str);
    warc_write_ip_header (ip);

```

```

warc_write_header ("Content-Type", "application/http;msgtype=response");
warc_write_header ("WARC-Block-Digest", block_digest);
warc_write_header ("WARC-Payload-Digest", payload_digest);
warc_write_block_from_file (body);
warc_write_end_record ();

fclose (body);

return warc_write_ok;
}

/* Writes a response record to the WARC file.
   url is the target uri of the request/response,
   timestamp_str is the timestamp of the request that generated this response
       (generated with warc_timestamp),
   concurrent_to_uuid is the uuid of the request for
   that generated this response
       (generated with warc_uuid_str),
   ip is the ip address of the server (or NULL),
   body is a pointer to a file containing the response headers and body.
   mime_type is the mime type of the response body (will be printed to CDX),
   response_code is the HTTP response code (will be printed to CDX),
   redirect_location is the contents of the Location: header, or NULL (will be printed to CDX),
   Calling this function will close body.
   Returns true on success, false on error. */
bool
warc_write_response_record (const char *url, const char *timestamp_str,
                           const char *concurrent_to_uuid, const ip_address *ip,
                           FILE *body, off_t payload_offset, const char *mime_type,
                           int response_code, const char *redirect_location)
{
    char block_digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];
    char payload_digest[BASE32_LENGTH(SHA1_DIGEST_SIZE) + 1 + 5];
    char sha1_res_block[SHA1_DIGEST_SIZE];
    char sha1_res_payload[SHA1_DIGEST_SIZE];
    char response_uuid [48];
    off_t offset;

    if (opt.warc_digests_enabled)
    {
        /* Calculate the block and payload digests. */
        rewind (body);
        if (warc_sha1_stream_with_payload (body, sha1_res_block, sha1_res_payload,
            payload_offset) == 0)
        {
            /* Decide (based on url + payload digest) if we have seen this
               data before. */

```



```

struct warc_cdx_record *rec_existing;
rec_existing = warc_find_duplicate_cdx_record (url, sha1_res_payload);
if (rec_existing != NULL)
{
    bool result;

    /* Found an existing record. */
    logprintf (LOG_VERBOSE,
        _("Found exact match in CDX file. Saving revisit record to WARC.\n"));

    /* Remove the payload from the file. */
    if (payload_offset > 0)
    {
        if
(ftruncate (fileno (body), payload_offset) == -1)
            return false;
    }

    /* Send the original payload digest. */
    warc_base32_sha1_digest (sha1_res_payload, payload_digest, sizeof(payload_digest));
    result = warc_write_revisit_record (url, timestamp_str,
        concurrent_to_uuid, payload_digest, rec_existing->uuid,
        ip, body);

    return result;
}

warc_base32_sha1_digest (sha1_res_block, block_digest, sizeof(block_digest));
warc_base32_sha1_digest (sha1_res_payload, payload_digest, sizeof(payload_digest));
}
}

/* Not a revisit, just store the record. */

warc_uuid_str (response_uuid);

fseeko (warc_current_file, 0L, SEEK_END);
offset = ftello (warc_current_file);

warc_write_start_record ();
warc_write_header ("WARC-Type", "response");
warc_write_header ("WARC-Record-ID", response_uuid);
warc_write_header ("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
warc_write_header ("WARC-Concurrent-To", concurrent_to_uuid);
warc_write_header_uri ("WARC-Target-URI", url);
warc_write_date_header (timestamp_str);
warc_write_ip_header (ip);
warc_write_header ("WARC-Block-Digest", block_digest);

```

```

warc_write_header ("WARC-Payload-Digest", payload_digest);
warc_write_header ("Content-Type", "application/http;msgtype=response");
warc_write_block_from_file (body);
warc_write_end_record ();

```

```

fclose (body);

```

```

if (warc_write_ok && opt.warc_cdx_enabled)
{
    /* Add this record to the CDX. */
    warc_write_cdx_record (url, timestamp_str, mime_type, response_code,
        payload_digest, redirect_location, offset, warc_current_filename,
        response_uuid);
}

```

```

return warc_write_ok;
}

```

/* Writes a resource or metadata record to the WARC file.

warc_type is either "resource" or "metadata",
resource_uuid is the
uuid of the resource (or NULL),
url is the target uri of the resource,
timestamp_str is the timestamp (generated with warc_timestamp),
concurrent_to_uuid is the uuid of the record that generated this,
resource (generated with warc_uuid_str) or NULL,
ip is the ip address of the server (or NULL),
content_type is the mime type of the body (or NULL),
body is a pointer to a file containing the resource data.
Calling this function will close body.
Returns true on success, false on error. */

static bool

```

warc_write_record (const char *record_type, const char *resource_uuid,
    const char *url, const char *timestamp_str,
    const char *concurrent_to_uuid,
    const ip_address *ip, const char *content_type, FILE *body,
    off_t payload_offset)
{
    if (resource_uuid == NULL)
    {
        /* using uuid_buf allows const for resource_uuid in function declaration */
        char *uuid_buf = alloca
(48);
        warc_uuid_str (uuid_buf);
        resource_uuid = uuid_buf;
    }

```

```

    if (content_type == NULL)

```

```

content_type = "application/octet-stream";

warc_write_start_record ();
warc_write_header ("WARC-Type", record_type);
warc_write_header ("WARC-Record-ID", resource_uuid);
warc_write_header ("WARC-Warcinfo-ID", warc_current_warcinfo_uuid_str);
warc_write_header ("WARC-Concurrent-To", concurrent_to_uuid);
warc_write_header_uri ("WARC-Target-URI", url);
warc_write_date_header (timestamp_str);
warc_write_ip_header (ip);
warc_write_digest_headers (body, payload_offset);
warc_write_header ("Content-Type", content_type);
warc_write_block_from_file (body);
warc_write_end_record ();

fclose (body);

return warc_write_ok;
}

```

```

/* Writes a resource record to the WARC file.
resource_uuid is the uuid of the resource (or NULL),
url is the target uri of the resource,
timestamp_str is the timestamp (generated with warc_timestamp),
concurrent_to_uuid is the uuid of the record that generated this,
resource (generated with warc_uuid_str) or NULL,
ip is the ip address of the server (or NULL),
content_type is the mime type of the body (or NULL),
body is a pointer to a file containing the resource data.
Calling this function will close body.
Returns true on success, false on error. */
bool
warc_write_resource_record (const char *resource_uuid, const char *url,
                           const char *timestamp_str, const char *concurrent_to_uuid,
                           const ip_address *ip, const char *content_type, FILE *body,
                           off_t payload_offset)
{
return warc_write_record ("resource",
    resource_uuid, url, timestamp_str, concurrent_to_uuid,
    ip, content_type, body, payload_offset);
}

```

```

/* Writes a metadata record to the WARC file.
record_uuid is the uuid of the record (or NULL),
url is the target uri of the record,
timestamp_str is the timestamp
(generated with warc_timestamp),
concurrent_to_uuid is the uuid of the record that generated this,

```

record (generated with `warc_uuid_str`) or NULL,
 ip is the ip address of the server (or NULL),
 content_type is the mime type of the body (or NULL),
 body is a pointer to a file containing the record data.
 Calling this function will close body.

Returns true on success, false on error. */

bool

```
warc_write_metadata_record (const char *record_uuid, const char *url,
                           const char *timestamp_str, const char *concurrent_to_uuid,
                           ip_address *ip, const char *content_type, FILE *body,
                           off_t payload_offset)
{
    return warc_write_record ("metadata",
                              record_uuid, url, timestamp_str, concurrent_to_uuid,
                              ip, content_type, body, payload_offset);
}
```

1.89 python3-pycrypto 2.6.1-r0

1.89.1 Available under license :

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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 (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 from	Derived	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	no
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	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

Footnotes:

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

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From dlitz@dlitz.net Sun Aug 2 21:48:25 2009
Date: Sun, 2 Aug 2009 21:48:25 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090803014825.GA1326@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2631

Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

```
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=====
```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg.

I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, Joris Bontje, and Mark

Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====
```

Regards,
- Dwayne

--

Dwayne C. Litzemberger <dlitz@dlitz.net>

Key-signing

key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <paulswartz@gmail.com>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4

for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068

for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 10:14:06 -0600 (CST)

Received: (vmmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in 'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159

Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])

by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066

for <dlitz@dlitz.net>; Mon, 3 Aug 2009 10:14:05 -0600 (CST)

Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3

for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;

d=gmail.com; s=gamma;

h=domainkey-signature:mime-version:received:in-reply-to:references

=A0To the
> =C2=A0extent that dedication to the public domain is not available, every=
one
> =C2=A0is granted a worldwide, perpetual, royalty-free, non-exclusive lice=
nse
> =C2=A0to exercise all rights associated with the contents of this file fo=
r
> =C2=A0any purpose whatsoever. =C2=A0No rights are reserved.
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
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Yes,
that's fine. Good luck with the new release!

-P
--=20
Paul Swartz
paulswartz at gmail dot com
<http://paulswartz.net/>
AIM: z3penguin

From dlitz@dlitz.net Mon Aug 3 14:35:01 2009
Date: Mon, 3 Aug 2009 14:35:01 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: Re: PyCrypto license clarification
Message-ID: <20090803183501.GA17472@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
<324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1; format=flowed
Content-Disposition: inline
Content-Transfer-Encoding: 8bit
In-Reply-To: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: <http://www.dlitz.net/>
X-OpenPGP:
url=<http://www.dlitz.net/go/gpgkey/>;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 1250

On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:

>On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzengerger<dlitz@dlitz.net> wrote:

>> Hi Paul,

>>

>> I am the new maintainer of the Python Cryptography Toolkit, and I am

>> working on a new release at <http://www.pycrypto.org/>.

>

>That's great!

>

>> I understand that you have made contributions to PyCrypto, under nickname

>> "z3p" and/or other names. May I, on your behalf, dedicate to the public

>> domain all your contributions to PyCrypto, with the following notice?

>>

>> =====

>> The contents of this file are dedicated to
the public domain. To the

>> extent that dedication to the public domain is not available, everyone

>> is granted a worldwide, perpetual, royalty-free, non-exclusive license

>> to exercise all rights associated with the contents of this file for

>> any purpose whatsoever. No rights are reserved.

>> =====

>

>Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--

Dwayne C. Litzengerger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Sat Apr 18 09:14:20 2009

Date: Sat, 18 Apr 2009 09:14:20 -0400

From: "Dwayne C. Litzengerger" <dlitz@dlitz.net>

To: Mark Moraes <moraes@computer.org>

Subject: PyCrypto license clarification

Message-ID: <20090418131419.GA14494@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 2635

Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am

working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

```
=====
Distribute and use
freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
=====
```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

```
=====
The contents of this file are dedicated to the public domain. To the
extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====
```

Regards,
- Dwayne

--
Dwayne C. Litzberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <markmoraes@yahoo.com>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD

for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F

for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)

Received: (vmmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198

Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])

by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE

for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)

Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com; s=s1024; t=1240269933;

bh=OvxqbYnCg7R6tUN3YmlgFURM3CuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;

b=F2h2bFzpQxyKFZ8BhenniyupGw4Zvlekb9BSk91qKU+51W/TkSGBij5YZIhkLQdkQk0qLz5f4g8dT6bOME3sEY1j10hlx0K0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/EJhRpe+FiV6aoLV0FONWiHfGDghPT1dulWXfVTqgB2aU=

DomainKey-Signature:a=rsa-sha1; q=dns; c=noaws;

s=s1024; d=yahoo.com;

h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;

b=r6RShFF5VzQLg+9tcn1xKuo4Rs4IVvXF6fdqOpQrMyRCxeFoebhuTE35grGqlomOJLwM0+mZwRb6rGkDj763caOAl08Ect/qlADW5izXfmVQaDchTbTqmpsJBmQnTQs9iZ+InrG+3UIwtUSGfX7fhEWmI9P/HBzxf9Wp4b3j eo=;

Message-ID:

<551071.34569.qm@web32405.mail.mud.yahoo.com>

X-YMail-OSG:

FrK8aWMVM1mFJtLpMGbUbCLjbUQC.i.JkIAKUHSFsFn7t9PbtewAewXJ2uhZGCOIGCX6oVnG3u.CgqzAffY4vZSnfTT8wnCkzZNZ_g6k.XUc3ipo_6e.92TXl4p8MxDGAf1tpNF5nXPwcQ7aREs7jGoWWVJYVyp50clsUFS Hzf7Zbpa8P1Yoe_xSzf3OAgRSh5fCrbFCC8sHPCuwrL3YhasbtHmkWffteSS.x6gEcBaxf03oz4FeDb5mpJ54g11X onq8h_TmzX9g84Bin9g_3fJ4WSXm6g6.tohLyfXcUxoz4j036wyWpTKPrWEzIUQaN83Sv_bj_Ghxw--

Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT

X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1

Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)

From: M Moraes <markmoraes@yahoo.com>

Reply-To: moraes@computer.org

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Status: RO
X-Status: A
Content-Length: 3222

Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
>
> I am the new maintainer of the Python Cryptography Toolkit,
> and I am
> working on a new release at <http://www.pycrypto.org/>.
>
> People often ask me what license PyCrypto is covered by, if
> it's
> GPL-compatible, etc. Right now, I'm not really sure
> what to tell them.
> The text in the current LICENSE file (quoted below) is not
> entirely clear
> on the point of whether distributing modified versions is
> allowed. (It
> says "distribute and use", but not "modify".)
>
>
> =====
> Distribute and use freely; there are
> no restrictions on further
> dissemination and usage except those
>
> imposed by the laws of your
> country of residence. This
> software is provided "as is" without
> warranty of fitness for use or

> suitability for any purpose, express
> or implied. Use at your own risk or
> not at all.
>
> =====
>
> Incorporating the code into commercial
> products is permitted; you do
> not have to make source available or
> contribute your changes back
> (though that would be nice).
>
> --amk
>
>
> (www.amk.ca)
>
> For the next PyCrypto release, I would like to take steps
> to move toward a
> clearer licensing regime. I am asking as many
> copyright holders as I can
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> more standard.
> Below, I have quoted a public domain dedication that was
> recommended in
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> by Van Lindberg. I have already contacted A.
> M. Kuchling, Robey
> Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they
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> approved the following dedication for their contributions.
>
> I understand that you have made contributions to
> PyCrypto. May I, on your
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>
> =====
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> to exercise all rights associated with
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> any purpose whatsoever. No
> rights are reserved.
>
> =====
>
> Regards,
> - Dwayne
>
> -- Dwayne C. Litzenberger <dlitz@dlitz.net>
>
Key-signing key - 19E1
> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009
Date: Mon, 20 Apr 2009 20:01:37 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: moraes@computer.org
Subject: Re: PyCrypto license clarification
Message-ID: <20090421000137.GA29012@rivest.dlitz.net>
References: <551071.34569.qm@web32405.mail.mud.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
In-Reply-To: <551071.34569.qm@web32405.mail.mud.yahoo.com>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3677

Thanks a lot, and don't
worry about not responding to previous emails. I
do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:
>
>Hi Dwayne.
>

>Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

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>Mark.

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>

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>> Subject: PyCrypto license clarification

>> To: "Mark Moraes" <moraes@computer.org>

>> Date: Saturday, April 18, 2009, 9:14 AM

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>>

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>>

>>

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>> no restrictions on further

>> dissemination and usage except those

>> imposed by the laws of your

>> country of residence. This

>> software is provided "as is" without

>> warranty of fitness for use or

>> suitability for any purpose, express

>> or implied. Use at your own risk or

>> not at all.

>>

>> =====

>>

>> Incorporating the code into commercial

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>> contribute your changes back

```

>> (though that would be nice).
>>
>> --amk
>>
>>
>> (www.amk.ca)
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>> Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they
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>> =====
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>> to exercise all rights associated with
>> the contents of this file for
>> any purpose whatsoever. No
>> rights are reserved.
>>
>> =====
>>
>> Regards,
>> - Dwayne

```

```

>>
>> -- Dwayne C. Litzenger <dlitz@dlitz.net>
>> Key-signing key - 19E1
>> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>>
>
--
Dwayne C. Litzenger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45
From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@dlitz.net>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)
Received: (vmmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)
Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13])
by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088
for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)
Received: from stamper.itconsult.co.uk (stamper.itconsult.co.uk
[193.201.42.31]) by m14.stamper.itconsult.co.uk (GMS
15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;
Thu, 28 Aug 2008 01:45:02 +0100
To: crypt@bis.doc.gov,
enc@nsa.gov,
web_site@bis.doc.gov,
pycrypto@lists.dlitz.net,
PYTHON-CRYPTO@NIC.SURFNET.NL,
dlitz@dlitz.net
Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net
designates 64.5.53.201 as permitted sender) identity=mailfrom;
client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;
helo=goedel.dlitz.net; mechanism=-all; envelope-from=dlitz@dlitz.net;
Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201]) by
m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with ESMTP id
taxsjqaa for post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100
Received: from rivest.dlitz.net (rivest.dlitz.net [IPv6:2002:4c0a:9133:1104::1])
by goedel.dlitz.net (Postfix) with ESMTP id 667C7100B1
for <post@stamper.itconsult.co.uk>;

```

Wed, 27 Aug 2008 18:42:56 -0600 (CST)
Received: by rivest.dlitz.net (Postfix, from userid 1000)
id B92F8C66420; Wed, 27 Aug 2008 20:42:55 -0400 (EDT)
Received: by rivest.dlitz.net (tm-da-sendmail, from uid 1000);
Wed, 27 Aug 2008 20:42:54 -0400
Date: Wed, 27 Aug 2008 20:42:54 -0400
Cc: post@stamper.itconsult.co.uk
Subject: PyCrypto TSU NOTIFICATION
Message-ID: <20080828004254.GA31214@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
X-Delivery-Agent: TMDA/1.1.9 (Jura)
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
X-DNSBL: 0
Status: O
Content-Length:
2182
Lines: 65

-----BEGIN PGP SIGNED MESSAGE-----

#####

#

This is a proof of posting certificate from
stamper.itconsult.co.uk certifying that a user
claiming to be:-
dlitz@dlitz.net
requested that this message be sent to:-
crypt@bis.doc.gov
enc@nsa.gov
web_site@bis.doc.gov
pycrypto@lists.dlitz.net
PYTHON-CRYPTO@NIC.SURFNET.NL
dlitz@dlitz.net

This certificate was issued at 00:45 (GMT)
on Thursday 28 August 2008 with reference 0520978
#

CAUTION: while the message may well be from the sender
indicated in the "From:" header, the sender
has NOT been authenticated by this service

For information about the Stamper service see
<http://www.itconsult.co.uk/stamper.htm>

#####

SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C.
Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: <http://www.pycrypto.org/>

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- - -

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----

Version: 2.6.3i

Charset: noconv

Comment: Stamper Reference Id: 0520978

iQEVAgUBSLX1DYGVnbVwth+BAQEcuwf9EWnXLqSO5bPzR9K9QnTPcsKbTljKjPxr
d+q0E7eE8VtnvviUcTAR9o27yvzOPxdFT864MQA7OTSbPK39aGAgA4fgAgvYH9t
UNjJ/kv8QLz/eq2fi/HNjyrwnqFnUl0uqwpOrQGbz8Y+SGpVh1gKqy1Ju45L+doq
sxbzCOPjgRv2zDdNR/2SnFmDWQXv8dSeonwIHpQDft8/LVA/gHiTDmteQlOhJQ6o
XYhY+HbRjSD741/GSpOt9IlN5ln0UgshFoLIndnNSAvWf4aPyh5KCN7ho+/BC0v/
W/pqSSlPkwmbhlPHoOltTkNc0qKLAHXqMGJNhO8AkrYZOyJksb0HsA==
=3oIX
-----END

PGP SIGNATURE-----

Date: Sun, 23 Nov 2008 15:54:35 -0800

From: Wim Lewis <wiml@hxxx.org>

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

Cc: Wim Lewis <wiml@hxxx.org>

Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hxxx.org>

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On November 23, 2008, you wrote:

>Hi Wim,

>

>I am the new maintainer of the Python Cryptography Toolkit, and I am

>working on a new release at <http://www.pycrypto.org/>.

>

>I understand that you have made contributions to PyCrypto. May I, on

>your behalf, dedicate to the public domain all your contributions to

>PyCrypto, with the following notice?

>

> =====

> The contents of this file are dedicated to the public domain. To the

> extent that dedication to the public domain is not available, everyone

> is granted a worldwide, perpetual, royalty-free, non-exclusive license

> to exercise all rights associated with the contents

of this file for

> any purpose whatsoever. No rights are reserved.

> =====

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128 implementation, which already has a public-domain notice at the top of the file. But I am happy to have that, any any other code of mine that might have wandered in there under an unclear open sourcish license, distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSSnnAl8UnN8n93LBAQLp/gQAhr7x8Av1mstc2kxEJDWTm26PTAZxMz4B
FektbDOzkxgc5580MGGeX/MVn8aw+1BHg0YD85gsntlDzkcQtb+BR/xAvJ5zKyA
J/Mn/I+I6ekJQ3juh8IPHLAduOXM9Rtguas/yR+Doaq0xOPKoBx+/5+t1LJtBcZ
wrPEa9Oui9s=

=zSY9

-----END PGP SIGNATURE-----

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

- (a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or
- (b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or
- (c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.
- (d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated

No rights are reserved.

From dlitz@dlitz.net Sun Nov 23 00:17:22 2008
Date: Sun, 23 Nov 2008 00:17:22 -0500
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>
To: "A. M. Kuchling" <amk@amk.ca>
Subject: PyCrypto license clarification
Message-ID: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: multipart/signed; micalg=pgp-sha1;
protocol="application/pgp-signature"; boundary="YiEDa0DAkWCtVeE4"
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3461
Lines: 78

Hi Andrew,

often ask me what license PyCrypto is covered by, if it's=20
GPL-compatible, etc. Right now, I'm not really sure what to tell them. =20
The text in the current LICENSE file (quoted below) is not entirely clear=20
=20
on the point of whether distributing modified versions is allowed. (It=20
says "distribute and use", but not "modify".)

Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your

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--amk (www.amk.ca)

May I, on your behalf, dedicate to the public domain your considerable=20
contributions to PyCrypto, with the following notice?

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

[illegible]

--=20

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

Content-Type: application/pgp-signature; name="signature.asc"
Content-Description:

Digital signature
Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.5 (GNU/Linux)

iEYEAARECAAYFAkko52IACgkQHBBG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ
yloAn33a3ZjkteyJaTbzEqImOEw8JGpf
=aBEW

-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <amk@amk.ca>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D
for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id D632D10111
for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
Received: (vmmailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does
not designate permitted sender hosts)
Received: from mail5.sea5.speakeasy.net (mail5.sea5.speakeasy.net [69.17.117.7])
by goedel.dlitz.net (Postfix) with ESMTP id 97DC710105
for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
Received: (qmail 3992 invoked from network); 23 Nov 2008 12:51:52 -0000
Received: from dsl092-163-165.wdc2.dsl.speakeasy.net (HELO localhost) (akuchling@[66.92.163.165])
(envelope-sender <amk@amk.ca>)
by mail5.sea5.speakeasy.net (qmail-ldap-1.03) with AES256-SHA encrypted SMTP
for <dlitz@dlitz.net>; 23 Nov 2008 12:51:52 -0000
Date: Sun, 23 Nov 2008 07:51:34 -0500
From: "A.M. Kuchling" <amk@amk.ca>
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Subject: Re: PyCrypto license clarification
Message-ID: <20081123125134.GA21239@amk.local>
Reply-To: amk@amk.ca
References: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
In-Reply-To: <20081123051722.GA29253@rivest.dlitz.net>
User-Agent:

Mutt/1.5.13 (2006-08-11)

Status: RO

Content-Length: 537

Lines: 15

- > People often ask me what license PyCrypto is covered by, if it's
- > GPL-compatible, etc. Right now, I'm not really sure what to tell them.
- > The text in the current LICENSE file (quoted below) is not entirely clear
- > on the point of whether distributing modified versions is allowed. (It
- > says "distribute and use", but not "modify".)

The intention is that it be public domain.

- > May I, on your behalf, dedicate to the public domain your considerable
- > contributions to PyCrypto, with the following notice?

You may.

--amk

From dlitz@dlitz.net Sat Feb 28 23:24:14 2009

Date: Sat, 28 Feb 2009 23:24:14 -0500

From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

To: Jeethu Rao <jeethurao@gmail.com>

Subject: PyCrypto license clarification

Message-ID: <20090301042414.GA15122@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 2513

Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

=====

Distribute and use freely;

there are no restrictions on further

dissemination and usage except those imposed by the laws of your

country of residence. This software is provided "as is" without

warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

=====
Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg.

I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following text for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=====
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=====

Regards,
- Dwayne

--

Dwayne C. Litzberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar 8 17:28:16 2009

X-Maildir-Dup-Checked:

Yes

Return-Path: <jeethurao@gmail.com>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9

for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 17:28:16 -0400 (EDT)

Received: from localhost [localhost [127.0.0.1]]
by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB
for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 15:28:15 -0600 (CST)
Received: (vmmailmgr-postfix 5011 invoked by uid 1003); 8 Mar 2009 15:28:15 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in
'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-
from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249
Received: from rv-out-0708.google.com (unknown [209.85.198.249])
by goedel.dlitz.net
(Postfix) with ESMTP id 3C097449E7
for <dlitz@dlitz.net>; Sun, 8 Mar 2009 15:28:12 -0600 (CST)
Received: by rv-out-0708.google.com with SMTP id k29so1252333rvb.26
for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
d=gmail.com; s=gamma;
h=domainkey-signature:mime-version:received:in-reply-to:references
:date:message-id:subject:from:to:content-type;
bh=YWy9U32WCU/ksRqukHwaOZyJQBU4Yvt5mI20U6mI/g=;
b=oMjI22IlxYiJKge2zNJW3rRiUi9LqFXmey5Wp0pLItnNF+X3duyfhopTuBAKw7MwVY
B5E6VQuGVEyzBbNsctyVgq6DhQiQtouCLZymSViobmuDmKn5DtUKoxpDk0xCxQmHYaas
L9/A6D3/J66kKrNBgX9mc0GPcZTviVFYkPR0Q=
DomainKey-Signature: a=rsa-sha1; c=noaws;
d=gmail.com; s=gamma;
h=mime-version:in-reply-to:references:date:message-id:subject:from:to
:content-type;
b=Ym7CStuDEfJKay1AJyWZkZmJA1lnTcwCG6akBHAXLld8ht6PFcmlsffzZG8hJCIVJ8
vljqcT+G6cywVTBw1pyGX7ECYzr0+vhGvgdpACGrS24zikHfpSSd5GFogzXaLVvGVH8p
bqSHpfWKKtEP4gAQkiNeIq1GNtR2j8U3fnRyg=
MIME-Version: 1.0
Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;
Sun, 08 Mar 2009 14:27:54 -0700 (PDT)
In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>
References: <20090301042414.GA15122@rivest.dlitz.net>
Date: Mon, 9 Mar 2009 02:57:54 +0530
Message-ID: <e3c0ddba0903081427p3a7b1058g417dd8624df68d6d@mail.gmail.com>
Subject: Re: PyCrypto license clarification
From: Jeethu Rao <jeethurao@gmail.com>
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Content-Type: multipart/alternative; boundary=000e0cd209d0e5a3d40464a23054
Status: RO
Content-Length: 7668

--000e0cd209d0e5a3d40464a23054
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi Dwayne, My contribution to pycrypto are very very minimal (The sha256

module, IIRC).

I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.

I don't really

check this email address all that often,

please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenger <dlitz@dlitz.net>wrote:

> Hi Jeethu,

>

> I am the new maintainer of the Python Cryptography Toolkit, and I am

> working on a new release at <http://www.pycrypto.org/>.

>

> People often ask me what license PyCrypto is covered by, if it's

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> text in the current LICENSE file (quoted below) is not entirely clear on the

> point of whether distributing modified versions is allowed. (It says

> "distribute and use", but not "modify".)

>

> =====

> Distribute and use freely; there are no restrictions on further

> dissemination and usage except those imposed by the laws of your

> country of residence. This software is provided "as is" without

> warranty of fitness for use or suitability for any purpose,

express

> or implied. Use at your own risk or not at all.

> =====

>

> Incorporating the code into commercial products is permitted; you do

> not have to make source available or contribute your changes back

> (though that would be nice).

>

> --amk (www.amk.ca)

>

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> clearer licensing regime. I am asking as many copyright holders as I can

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> _Intellectual Property and Open Source: A Practical Guide to Protecting

> Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey

> Pointer, and Wim Lewis, and they have all approved the following text for

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I, on your
 > behalf, dedicate to the public domain all your contributions to PyCrypto,
 > with the following notice?
 >
 > =====
 > The contents of this file are dedicated to the public domain. To the
 > extent that dedication to the public domain is not available, everyone
 > is granted a worldwide, perpetual, royalty-free, non-exclusive license
 > to exercise all rights associated with the contents of this file for
 > any purpose whatsoever. No rights are reserved.
 > =====
 >
 > Regards,
 > - Dwayne
 >
 > --
 > Dwayne C. Litzemberger <dlitz@dlitz.net>
 > Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
 >

--

Jeethu Rao

--000e0cd209d0e5a3d40464a23054

Content-Type: text/html; charset=ISO-8859-1

Content-Transfer-Encoding: quoted-printable

Hi Dwayne,<div>My contribution to pycrypto are very very minimal (The sha25=

6 module, IIRC).</div><div>I'd

be fine with the public domain license f=

or PyCrypto.</div><div>
</div><div>Jeethu Rao</div><div>PS: Apologies fo=

r the delay in my response.=A0</div>

<div>I don't really check this email address all that often,</div><div>=

please direct any further correspondence to <a href=3D"mailto:jeethu@jeethu=

rao.com">jeethu@jeethurao.com
<div>
<div class=3D"gmail_quote">On=

Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzemberger <=

dlitz@dlitz.net> wrote:<br=

>

<blockquote class=3D"gmail_quote" style=3D"margin:0 0 0 .8ex;border-left:1p=

x #ccc solid;padding-left:1ex;">Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am workin=

g on a new release at <a href=3D"http://www.pycrypto.org/" target=3D"_blank=

">http://www.pycrypto.org/.

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mpatible, etc. =A0Right now, I'm not really sure

what to tell them. =A0=

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n the point of whether distributing modified versions is allowed. =A0(It sa=
ys "distribute and use", but not "modify").

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Distribute and use freely; there are no restrictions on further

dissemination and usage except those imposed by the laws of your

country of residence. =A0This software is provided "as is" withou=

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warranty of fitness for use or suitability for any purpose, express

or implied. Use at your own risk or not at all.

=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
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Incorporating

the code into commercial products is permitted; you do

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(though that would be nice).

--amk =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =
=A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0 =A0(<a href=3D"http://www.amk.ca" target=3D=
"_blank">www.amk.ca)

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clearer licensing regime. =A0I am asking as many copyright holders as I can=

find if I can release PyCrypto under something clearer and more standard. =

=A0Below, I have quoted a public domain dedication that was recommended in =

_Intellectual Property and Open Source: A Practical Guide to Protecting Cod=

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ter, and Wim Lewis, and they have all approved the following text for their=

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you=

r behalf, dedicate to the public domain all your contributions to PyCrypto,=

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The contents of this file are dedicated to the public domain. =A0To the

sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

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

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

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

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Exception:

- Portions of HMAC.py and setup.py are derived from Python 2.2, and are therefore Copyright (c) 2001, 2002, 2003 Python Software Foundation (All Rights Reserved). They are licensed by the PSF under the terms of the Python 2.2 license. (See the file LEGAL/copy/LICENSE.python-2.2 for details.)

EXPORT RESTRICTIONS:

Note that the export or re-export of cryptographic software and/or source code may be subject to regulation in your jurisdiction.

From dlitz@dlitz.net Mon May 4 22:49:14 2009

Date: Mon, 4 May 2009 22:49:14 -0400

From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

To: Joris Bontje <joris@bontje.nl>

Subject: PyCrypto license clarification
Message-ID: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2553

Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

```
=====
Distribute and use freely; there
are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
=====
```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=====
The contents of this file are dedicated to the public domain. To the
extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====

Regards,
- Dwayne

--

Dwayne C. Litzberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl

Tue May 5 03:08:32 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <joris@bontje.nl>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078

for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 03:08:32 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 2315B40583

for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 01:08:32 -0600 (CST)

Received: (vmmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97

Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])

by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C

for <dlitz@dlitz.net>; Tue, 5 May 2009 01:08:30

-0600 (CST)

Received: (gmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000

Received: from gmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])

(envelope-sender <joris@bontje.nl>)

by 10.170.1.96 (gmail-ldap-1.03) with SMTP

for <>; 5 May 2009 07:08:25 -0000

Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)

id 9BE9B15759B; Tue, 5 May 2009 09:08:25 +0200 (CEST)

Received: from firewall66.interaccess.nl (firewall66.interaccess.nl

[193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;

Tue, 05 May 2009 09:08:25 +0200

Message-ID: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>

Date: Tue, 05 May 2009 09:08:25 +0200

From: joris@bontje.nl
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Subject: Re: PyCrypto license clarification
References: <20090505024914.GA9219@rivest.dlitz.net>
In-Reply-To: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset=ISO-8859-1;
format="flowed"
Content-Disposition:
inline
Content-Transfer-Encoding: 7bit
User-Agent: Internet Messaging Program (IMP) H3 (4.1.3)
Status: RO
X-Status: A
Content-Length: 3488

Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.

I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

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The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

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Citeren
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> =====
>
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> =====
>
> Regards,
> - Dwayne
>
> --
> Dwayne C. Litzengerger <dlitz@dlitz.net>
> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Tue May 5 17:53:47 2009
Date: Tue, 5 May 2009 17:53:47 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: joris@bontje.nl
Subject: Re: PyCrypto license clarification
Message-ID: <20090505215347.GB9933@rivest.dlitz.net>
References: <20090505024914.GA9219@rivest.dlitz.net>
<20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
MIME-Version:
1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
In-Reply-To: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3863

Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:

> Hi Dwayne,
>
> Thanks for taking over the PyCrypto library and putting in the required
> effort to keep this going.
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> =====
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```

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 whatsoever. No rights are reserved.
>> =====
>>
>> Regards,
>> - Dwayne
>>
>> --
>> Dwayne C. Litzenger <dlitz@dlitz.net>
>> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>
>

--
Dwayne C. Litzenger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>
To: Barry A Warsaw <barry@python.org>
Subject: PyCrypto license clarification
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2535

Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am
working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's
GPL-compatible, etc. Right now, I'm not really sure what to tell them.
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on the point of whether distributing modified versions is allowed. (It
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=====

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dissemination and usage except those imposed by the laws of your

country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

=====

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=====

Regards,
- Dwayne

--

Dwayne C. Litzberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon
Mar 2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B

for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)
Received: (vmmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:39 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
Received: from mail.wooz.org (216-15-33-230.c3-0.slv-ubr2.lnh-slv.md.static.cable.rcn.com [216.15.33.230])
by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073
for <dlitz@dlitz.net>;
Mon, 2 Mar 2009 10:29:38 -0600 (CST)
Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])
by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F
for <dlitz@dlitz.net>; Mon, 2 Mar 2009 11:29:35 -0500 (EST)
Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>
From: Barry Warsaw <barry@python.org>
To: Dwayne C. Litzenberger <dlitz@dlitz.net>
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>
Content-Type: text/plain; charset=US-ASCII; format=flowed; delp=yes
Content-Transfer-Encoding: quoted-printable
Mime-Version: 1.0 (Apple Message framework v930.3)
Subject: Re: PyCrypto license clarification
Date: Mon, 2 Mar 2009 11:29:34 -0500
References: <20090301024509.GA13195@rivest.dlitz.net>
X-Pgp-Agent: GPGMail d55 (v55, Leopard)
X-Mailer: Apple Mail (2.930.3)
Status: RO
Content-Length: 869

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit,
and I am =20=

> working on a new release at <http://www.pycrypto.org/>.

Great! I'm glad to see someone taking up the mantle of this important =20=

Python library.

> I understand that you have made contributions to PyCrypto. May I, =20=
> on your behalf, dedicate to the public domain all your contributions =20=

> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/ecG+JdZwNvPJRfsa6rhY6+MHLdHI6agk
evkJnSJQAcVHlZnVlVeR5IXgvDUMakZjU4SOV7MqkhsKA9lIet7PaD9VSYgn3ra5
gElwI2DQDoOy5GExXMm74gqrrb1PCCbCRmpaYNo+DZohwHkeFBjbwDRA3wItOrH7
SK4w9VBJtfY=3D
=3DQduY

-----END PGP SIGNATURE-----

Date: Mon, 16 Feb 2009 12:58:00 -0800

From: Robey Pointer <robey@lag.net>

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)

Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

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```
> license
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> any purpose whatsoever. No rights are reserved.
>
> =
> =====
>
```

In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQCfQmYYuVODvIlyLg0hgCI9LAbQ
SH8AoLJgaq1Ili7/ZYDc+/Cd8VO0xLbr
=Mv6g

-----END PGP SIGNATURE-----

00INDEX This file

LICENSE.orig Original (deprecated) license for the Python Cryptography Toolkit

LICENSE.libtom LICENSE file from LibTomCrypt

stmts/ Statements by contributors

1.90 hd-parm 9.56-r0

1.90.1 Available under license :

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Version 2, June 1991

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```
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1.94 linux-kernel 4.19.88-

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

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

*

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

* <http://www.hypermall.com/>

* 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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```
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```

```
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```

```
static inline int license_is_gpl_compatible(const char *license)
```

```
{  
    return (strcmp(license, "GPL") == 0  
        || strcmp(license, "GPL v2") == 0  
        || strcmp(license, "GPL and additional rights") == 0  
        || strcmp(license, "Dual BSD/GPL") == 0  
        || strcmp(license, "Dual MIT/GPL") == 0  
        || strcmp(license, "Dual MPL/GPL") == 0);  
}
```

```
#endif
```

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=====

The Linux Kernel is provided under the terms of the GNU General Public License version 2 only (GPL-2.0), as provided in LICENSES/preferred/GPL-2.0, with an explicit syscall exception described in LICENSES/exceptions/Linux-syscall-note, as described in the COPYING file.

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LGPL-2.0+ : GNU Library General Public License v2 or later

LGPL-2.1 : GNU

Lesser General Public License v2.1 only

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The User-space API (UAPI) header files, which describe the interface of user-space programs to the kernel are a special case. According to the note in the kernel COPYING file, the syscall interface is a clear boundary, which does not extend the GPL requirements to any software which uses it to communicate with the kernel. Because the UAPI headers must be includable into any source files which create an executable running on the Linux kernel, the exception must be documented by a special license expression.

The common way of expressing the license of a source file is to add the matching boilerplate text into the top comment of the file. Due to formatting, typos etc. these "boilerplates" are hard to validate for tools which are used in the context of license compliance.

An alternative to boilerplate text is the use of Software Package Data Exchange (SPDX) license identifiers in each source file. SPDX license

identifiers are machine parsable and precise shorthands for the license under which the content of the file is contributed. SPDX license identifiers are managed by the SPDX Workgroup at the Linux Foundation and have been agreed on by partners throughout the industry, tool vendors, and legal teams. For further information see <https://spdx.org/>

The Linux kernel requires the precise SPDX identifier in all source files. The valid identifiers used in the kernel are explained in the section `License identifiers`_ and have been retrieved from the official SPDX license list at <https://spdx.org/licenses/> along with the license texts.

License identifier syntax

1. Placement:

The SPDX license identifier in kernel files shall be added at the first possible line in a file which can contain a comment. For the majority or files this is the first line, except for scripts which require the `#!/PATH_TO_INTERPRETER` in the first line. For those scripts the SPDX identifier goes into the second line.

|

2. Style:

The SPDX license identifier is added in form of a comment. The comment style depends on the file type::

```
C source: // SPDX-License-Identifier: <SPDX License Expression>
C header: /* SPDX-License-Identifier: <SPDX License Expression> */
ASM: /* SPDX-License-Identifier: <SPDX License Expression> */
scripts: # SPDX-License-Identifier: <SPDX License Expression>
.rst: .. SPDX-License-Identifier: <SPDX License Expression>
.dts{i}: // SPDX-License-Identifier: <SPDX License Expression>
```

If a specific tool cannot handle the standard comment style, then the appropriate comment mechanism which the tool accepts shall be used. This is the reason for having the `"/* */"` style comment in

C header

files. There was build breakage observed with generated `.lds` files where `'ld'` failed to parse the C++ comment. This has been fixed by now, but there are still older assembler tools which cannot handle C++ style comments.

|

3. Syntax:

A <SPDX License Expression> is either an SPDX short form license identifier found on the SPDX License List, or the combination of two SPDX short form license identifiers separated by "WITH" when a license exception applies. When multiple licenses apply, an expression consists of keywords "AND", "OR" separating sub-expressions and surrounded by "(", ")" .

License identifiers for licenses like [L]GPL with the 'or later' option are constructed by using a "+" for indicating the 'or later' option.::

```
// SPDX-License-Identifier: GPL-2.0+
// SPDX-License-Identifier: LGPL-2.1+
```

WITH should be used when there is a modifier to a license needed. For example, the linux kernel UAPI files use the expression::

```
// SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note
// SPDX-License-Identifier: GPL-2.0+ WITH Linux-syscall-note
```

Other examples using WITH exceptions found in the kernel are::

```
// SPDX-License-Identifier: GPL-2.0 WITH mif-exception
// SPDX-License-Identifier: GPL-2.0+ WITH GCC-exception-2.0
```

Exceptions can only be used with particular License identifiers. The valid License identifiers are listed in the tags of the exception text file. For details see the point `Exceptions`_ in the chapter `License identifiers`_.

OR should be used if the file is dual licensed and only one license is to be selected. For example, some dtsti files are available under dual licenses::

```
// SPDX-License-Identifier: GPL-2.0 OR BSD-3-Clause
```

Examples from the kernel for license expressions in dual licensed files::

```
// SPDX-License-Identifier: GPL-2.0 OR MIT
// SPDX-License-Identifier: GPL-2.0 OR BSD-2-Clause
// SPDX-License-Identifier:
GPL-2.0 OR Apache-2.0
// SPDX-License-Identifier: GPL-2.0 OR MPL-1.1
// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) OR MIT
// SPDX-License-Identifier: GPL-1.0+ OR BSD-3-Clause OR OpenSSL
```

AND should be used if the file has multiple licenses whose terms all

apply to use the file. For example, if code is inherited from another project and permission has been given to put it in the kernel, but the original license terms need to remain in effect::

```
// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) AND MIT
```

Another other example where both sets of license terms need to be adhered to is::

```
// SPDX-License-Identifier: GPL-1.0+ AND LGPL-2.1+
```

License identifiers

The licenses currently used, as well as the licenses for code added to the kernel, can be broken down into:

1. _`Preferred licenses`:

Whenever possible these licenses should be used as they are known to be fully compatible and widely used. These licenses are available from the directory::

```
LICENSES/preferred/
```

in the kernel source tree.

The files in this directory contain the full license text and _`Metatags`_. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

```
LICENSES/preferred/GPL-2.0
```

Contains the GPL version 2 license text and the required metatags::

```
LICENSES/preferred/MIT
```

Contains the MIT license text and the required metatags

_`Metatags`:

The following meta tags must be available in a license file:

- Valid-License-Identifier:

One or more lines which declare which License Identifiers are valid inside the project to reference this particular license text. Usually this is a single valid identifier, but e.g. for licenses with the 'or later' options two identifiers are valid.

- SPDX-URL:

The URL of the SPDX page which contains additional information related to the license.

- Usage-Guidance:

Freeform text for usage advice. The text must include correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax`_ guidelines.

- License-Text:

All text after this tag is treated as the original license text

File format examples::

Valid-License-Identifier: GPL-2.0

Valid-License-Identifier: GPL-2.0+

SPDX-URL: <https://spdx.org/licenses/GPL-2.0.html>

Usage-Guide:

To use this license in source code, put one of the following SPDX tag/value pairs into a comment according to the placement guidelines in the licensing rules documentation.

For 'GNU General Public License (GPL) version 2 only' use:

SPDX-License-Identifier: GPL-2.0

For 'GNU General Public License (GPL) version 2 or any later version' use:

SPDX-License-Identifier: GPL-2.0+

License-Text:

Full license text

::

SPDX-License-Identifier: MIT

SPDX-URL: <https://spdx.org/licenses/MIT.html>

Usage-Guide:

To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.

SPDX-License-Identifier: MIT

License-Text:

Full license text

|

2. Not recommended licenses:

These licenses should only be used for existing code or for importing code from a different project. These licenses are available from the directory::

LICENSES/other/

in the kernel source tree.

The files in this directory contain the full license text and `Metatags`_. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

LICENSES/other/ISC

Contains the Internet Systems Consortium license text and the required metatags::

LICENSES/other/ZLib

Contains the ZLIB license text and the required metatags.

Metatags:

The metatag requirements for 'other' licenses are identical to the requirements of the `Preferred licenses`_.

File format example::

Valid-License-Identifier: ISC

SPDX-URL: <https://spdx.org/licenses/ISC.html>

Usage-Guide:

Usage of this license in the kernel for new code is discouraged and it should solely be used for importing code from an already existing project.

To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.

SPDX-License-Identifier: ISC

License-Text:

|

3. `_`Exceptions``:

Some licenses can be amended with exceptions which grant certain rights which the original license does not. These exceptions are available from the directory::

`LICENSES/exceptions/`

in the kernel source tree. The files in this directory contain the full exception text and the required ``Exception Metatags`_`.

Examples::

`LICENSES/exceptions/Linux-syscall-note`

Contains the Linux syscall exception as documented in the COPYING file of the Linux kernel, which is used for UAPI header files.
e.g. `^* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note ^*/::`

`LICENSES/exceptions/GCC-exception-2.0`

Contains the GCC 'linking exception' which allows to link any binary independent of its license against the compiled version of a file marked with this exception. This is required for creating runnable executables from source code which is not compatible with the GPL.

`_`Exception Metatags``:

The following meta tags must be available in an exception file:

- `SPDX-Exception-Identifier`:

One exception identifier which can be used with SPDX license identifiers.

- `SPDX-URL`:

The URL of the SPDX page which contains additional information related to the exception.

- `SPDX-Licenses`:

A comma separated list of SPDX license identifiers for which the exception can be used.

- Usage-Guidance:

Freeform text for usage advice. The text must be followed by correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax`_ guidelines.

- Exception-Text:

All text after this tag is treated as the original exception text

File format examples::

SPDX-Exception-Identifier: Linux-syscall-note

SPDX-URL: <https://spdx.org/licenses/Linux-syscall-note.html>

SPDX-Licenses: GPL-2.0, GPL-2.0+, GPL-1.0+, LGPL-2.0, LGPL-2.0+, LGPL-2.1, LGPL-2.1+

Usage-Guidance:

This exception is used together with one of the above SPDX-Licenses to mark user-space API (uapi) header files so they can be included into non GPL compliant user-space application code.

To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses

tag:

SPDX-License-Identifier: <SPDX-License> WITH Linux-syscall-note

Exception-Text:

Full exception text

::

SPDX-Exception-Identifier: GCC-exception-2.0

SPDX-URL: <https://spdx.org/licenses/GCC-exception-2.0.html>

SPDX-Licenses: GPL-2.0, GPL-2.0+

Usage-Guidance:

The "GCC Runtime Library exception 2.0" is used together with one of the above SPDX-Licenses for code imported from the GCC runtime library.

To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:

SPDX-License-Identifier: <SPDX-License> WITH GCC-exception-2.0

Exception-Text:

Full exception text

All SPDX license identifiers and exceptions must have a corresponding file in the LICENSE subdirectories. This is required to allow tool verification (e.g. checkpatch.pl) and to have the licenses ready to read

and extract right from the source, which is recommended by various FOSS organizations, e.g. the FSFE REUSE initiative <<https://reuse.software/>>_.
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QLogic Linux iSCSI Driver

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Version 2, June 1991

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

Section 6

states terms for distribution of such executables.

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1.96 python-pip 18.0-r0

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1.97 qemu 3.0.0-r0

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Version 2, June 1991

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```
/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */
```

```
/*
```

```
* System call numbers.
```

```
*
```

```
* created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp
```

```
*/
```

```
#define TARGET_NETBSD_NR_syscall    0
#define TARGET_NETBSD_NR_exit      1
#define TARGET_NETBSD_NR_fork      2
#define TARGET_NETBSD_NR_read      3
#define TARGET_NETBSD_NR_write     4
#define TARGET_NETBSD_NR_open      5
#define TARGET_NETBSD_NR_close     6
#define TARGET_NETBSD_NR_wait4     7
#define TARGET_NETBSD_NR_compat_43_ocreat  8
#define TARGET_NETBSD_NR_link      9
#define TARGET_NETBSD_NR_unlink    10
#define TARGET_NETBSD_NR_chdir     12
#define TARGET_NETBSD_NR_fchdir    13
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#define
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#define TARGET_NETBSD_NR___msgctl13 302
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#define TARGET_NETBSD_NR_lchflags
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(principal original author of dtc and libfdt)

2 November 2007

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/*

* System call numbers.

*

* created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723

* 2012-01-06 19:29:16Z jhb

*/

```
#define TARGET_FREEBSD_NR_syscall 0
#define TARGET_FREEBSD_NR_exit 1
#define TARGET_FREEBSD_NR_fork 2
#define TARGET_FREEBSD_NR_read 3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open 5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
    /* 8 is old creat */
#define TARGET_FREEBSD_NR_link 9
#define TARGET_FREEBSD_NR_unlink 10
    /* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
    /* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_unmount 22
#define TARGET_FREEBSD_NR_setuid
    23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
    /* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
    /* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
```

```

#define TARGET_FREEBSD_NR_ktrace 45
    /* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
    /* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin
49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
    /* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
    /* 62 is old fstat */
    /* 63 is old getkerninfo */
    /* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
    /* 67 is obsolete vread */
    /* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
    /* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define
TARGET_FREEBSD_NR_madvise 75
    /* 76 is obsolete vhangup */
    /* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
    /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
    /* 87 is old gethostname */
    /* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90

```

```

#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
    /* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
    /* 101 is old send */

    /* 102 is old recv */
    /* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
    /* 107 is obsolete vtimes */
    /* 108 is old sigvec */
    /* 109 is old sigblock */
    /* 110 is old sigsetmask */
    /* 111 is old sigsuspend */
    /* 112 is old sigstack */
    /* 113 is old recvmmsg */
    /* 114 is old sendmsg */
    /* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124
    /* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid
127
#define TARGET_FREEBSD_NR_rename 128
    /* 129 is old truncate */
    /* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
    /* 139 is obsolete 4.2 sigreturn */

```

```

#define TARGET_FREEBSD_NR_adjtime 140
    /* 141 is old getpeername */
    /* 142 is old gethostid */
    /* 143 is old sethostid */
    /* 144 is old getrlimit */
    /* 145 is old setrlimit */
    /* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
    /* 149 is old quota */
    /*
150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
    /* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_msgsyz 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR seteuid 183
#define TARGET_FREEBSD_NR_stat
188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200

```

```

#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget
    225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrcv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio
    257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289

```

```

#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid
    310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
    /* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
    /* 322 is obsolete thr_sleep */
    /* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define
    TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341

```

```

#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd
354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_aio_waitcomplete 359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue 362
#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR_extattr_set_fd 371
#define TARGET_FREEBSD_NR_extattr_get_fd 372
#define TARGET_FREEBSD_NR_extattr_delete_fd 373
#define TARGET_FREEBSD_NR___setugid 374
#define TARGET_FREEBSD_NR_eaccess 376
#define TARGET_FREEBSD_NR_afs3_syscall 377
#define TARGET_FREEBSD_NR_nmount 378
#define TARGET_FREEBSD_NR___mac_get_proc 384
#define TARGET_FREEBSD_NR___mac_set_proc 385
#define TARGET_FREEBSD_NR___mac_get_fd 386
#define TARGET_FREEBSD_NR___mac_get_file 387
#define TARGET_FREEBSD_NR___mac_set_fd 388
#define TARGET_FREEBSD_NR___mac_set_file 389
#define
TARGET_FREEBSD_NR_kenv 390
#define TARGET_FREEBSD_NR_lchflags 391
#define TARGET_FREEBSD_NR_uuidgen 392
#define TARGET_FREEBSD_NR_sendfile 393
#define TARGET_FREEBSD_NR_mac_syscall 394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_statfs 396
#define TARGET_FREEBSD_NR_fstatfs 397
#define TARGET_FREEBSD_NR_fhstatfs 398
#define TARGET_FREEBSD_NR_ksem_close 400
#define TARGET_FREEBSD_NR_ksem_post 401

```

```

#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR___mac_get_pid 409
#define TARGET_FREEBSD_NR___mac_get_link 410
#define TARGET_FREEBSD_NR___mac_set_link 411
#define TARGET_FREEBSD_NR_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_link 413
#define TARGET_FREEBSD_NR_extattr_delete_link
414
#define TARGET_FREEBSD_NR___mac_execve 415
#define TARGET_FREEBSD_NR_sigaction 416
#define TARGET_FREEBSD_NR_sigreturn 417
#define TARGET_FREEBSD_NR_getcontext 421
#define TARGET_FREEBSD_NR_setcontext 422
#define TARGET_FREEBSD_NR_swapcontext 423
#define TARGET_FREEBSD_NR_swapoff 424
#define TARGET_FREEBSD_NR___acl_get_link 425
#define TARGET_FREEBSD_NR___acl_set_link 426
#define TARGET_FREEBSD_NR___acl_delete_link 427
#define TARGET_FREEBSD_NR___acl_aclcheck_link 428
#define TARGET_FREEBSD_NR_sigwait 429
#define TARGET_FREEBSD_NR_thr_create 430
#define TARGET_FREEBSD_NR_thr_exit 431
#define TARGET_FREEBSD_NR_thr_self 432
#define TARGET_FREEBSD_NR_thr_kill 433
#define TARGET_FREEBSD_NR_umtx_lock 434
#define TARGET_FREEBSD_NR_umtx_unlock 435
#define TARGET_FREEBSD_NR_jail_attach 436
#define TARGET_FREEBSD_NR_extattr_list_fd 437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define
TARGET_FREEBSD_NR_ksem_timedwait 441
#define TARGET_FREEBSD_NR_thr_suspend 442
#define TARGET_FREEBSD_NR_thr_wake 443
#define TARGET_FREEBSD_NR_kldunloadf 444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon 446
#define TARGET_FREEBSD_NR_getauid 447
#define TARGET_FREEBSD_NR_setauid 448
#define TARGET_FREEBSD_NR_getaudit 449
#define TARGET_FREEBSD_NR_setaudit 450
#define TARGET_FREEBSD_NR_getaudit_addr 451

```



```

#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl 453
#define TARGET_FREEBSD_NR__umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_sigqueue 456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name
464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff 471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov 473
#define TARGET_FREEBSD_NR_sctp_generic_recvmmsg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite 476
#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_faccessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define
TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mkfifoat 497
#define TARGET_FREEBSD_NR_mknodat 498
#define TARGET_FREEBSD_NR_openat 499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat 501

```

```

#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set 507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semctl 510
#define TARGET_FREEBSD_NR_msgctl 511
#define TARGET_FREEBSD_NR_shmctl 512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new 514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter
516
#define TARGET_FREEBSD_NR_cap_getmode 517
#define TARGET_FREEBSD_NR_pdfork 518
#define TARGET_FREEBSD_NR_pdkill 519
#define TARGET_FREEBSD_NR_pdgetpid 520
#define TARGET_FREEBSD_NR_pselect 522
#define TARGET_FREEBSD_NR_getloginclass 523
#define TARGET_FREEBSD_NR_setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct 525
#define TARGET_FREEBSD_NR_rctl_get_rules 526
#define TARGET_FREEBSD_NR_rctl_get_limits 527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule 529
#define TARGET_FREEBSD_NR_posix_fallocate 530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_MAXSYSCALL 532
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Any executables

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Ty Coon, President of Vice

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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();


```

+ 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--) {
            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())

printf("inb %#04x \n", addr);)

- return inb(addr);

+ return 0;

}

/*

@@ -235,7 +230,7 @@

{

DB(if (DEBUG_IO_TRACE())

printf("inw %#04x \n", addr);)

- return inw(addr);

+ return 0;

}

/*

@@ -250,7 +245,7 @@

{

DB(if (DEBUG_IO_TRACE())

printf("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 */
argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

```

The argparse module was contributed to Python as of Python 2.7 and thus was licensed under the Python license. Same license applies to all files in the argparse package project.

For details about the Python License, please see doc/Python-License.txt.

History

Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

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-- Wolfgang Denk

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Version 2.1, February 1999

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# *****/
#!/bin/bash

#set -x
#set -e

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

# check wether svn, patch, ... is available...
```



```

if [ ! -x $SVN ]; then
    echo "subversion executable not found!"
    exit -1
fi
if [ ! -x $PATCH ]; then
    echo "patch executable not found!"
    exit -1
fi
if [ ! -r $DIFF_FILE ]; then
    echo "diff file $DIFF_FILE not found!"
    exit -1
fi

# download the x86emu sources from LinuxBIOS subversion

#revision known to work...
REV=496

echo "Checking
    out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV

echo "Copying files..."

mkdir -p include/x86emu
cp -v x86emu/x86emu/*.c .
cp -v x86emu/x86emu/*.h include/x86emu
cp -v x86emu/include/x86emu/*.h include/x86emu

echo "Removing checkedout subversion director..."

rm -rf x86emu

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

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*
*   @(#)mman.h    8.2 (Berkeley) 1/9/95
* $FreeBSD: src/sys/sys/mman.h,v 1.42 2008/03/28 04:29:27 ps Exp $
*/

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
*/
#define TARGET_FREEBSD_MAP_STACK      0x0400 /* region grows down, like a stack */
#define
TARGET_FREEBSD_MAP_NOSYNC      0x0800 /* page to but do not sync underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK    0x1ff7

/*   $NetBSD: mman.h,v 1.42 2008/11/18 22:13:49 ad Exp $   */

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*   @(#)mman.h    8.2 (Berkeley) 1/9/95
*/

#define TARGET_NETBSD_MAP_INHERIT    0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED   0x0400 /* attempt
hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED      0x0800 /* mlock() mapping when it is established */

#define TARGET_NETBSD_MAP_STACK      0x2000 /* allocated from memory, swap space (stack) */

#define TARGET_NETBSD_MAP_FLAGMASK   0x3ff7

/*   $OpenBSD: mman.h,v 1.18 2003/07/21 22:52:19 tedu Exp $ */
/*   $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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*

* @(#)mman.h 8.1 (Berkeley) 6/2/93

*/

```
#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
```

```
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
```

```
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */
```

```
#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7
```

```
// XXX
```

```
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7
```

```
\ ****
```

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/* \$OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp \$ */

/* \$NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp \$ */

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*   @(#)errno.h   8.5 (Berkeley) 1/21/94
*/

```

```

#define TARGET_EPERM      1      /* Operation not permitted */
#define TARGET_ENOENT     2      /* No such file or directory */
#define TARGET_ESRCH      3      /* No such process */
#define TARGET_EINTR      4      /* Interrupted system call */
#define TARGET_EIO        5      /* Input/output error */
#define TARGET_ENXIO      6      /* Device not configured */
#define TARGET_E2BIG      7      /* Argument list too long */
#define TARGET_ENOEXEC     8      /* Exec format error */
#define TARGET_EBADF      9      /* Bad file descriptor */
#define TARGET_ECHILD     10     /* No child processes */

```

```

#define TARGET_EDEADLK      11          /* Resource deadlock avoided */
                                /* 11 was EAGAIN */

#define
TARGET_ENOMEM      12          /* Cannot allocate memory */
#define TARGET_EACCES      13          /* Permission denied */
#define TARGET_EFAULT      14          /* Bad address */
#define TARGET_ENOTBLK      15          /* Block device required */
#define TARGET_EBUSY      16          /* Device busy */
#define TARGET_EEXIST      17          /* File exists */
#define TARGET_EXDEV      18          /* Cross-device link */
#define TARGET_ENODEV      19          /* Operation not supported by device */
#define TARGET_ENOTDIR      20          /* Not a directory */
#define TARGET_EISDIR      21          /* Is a directory */
#define TARGET_EINVAL      22          /* Invalid argument */
#define TARGET_ENFILE      23          /* Too many open files in system */
#define TARGET_EMFILE      24          /* Too many open files */
#define TARGET_ENOTTY      25          /*
Inappropriate ioctl for device */
#define TARGET_ETXTBSY      26          /* Text file busy */
#define TARGET_EFBIG      27          /* File too large */
#define TARGET_ENOSPC      28          /* No space left on device */
#define TARGET_ESPIPE      29          /* Illegal seek */
#define TARGET_EROFS      30          /* Read-only file system */
#define TARGET_EMLINK      31          /* Too many links */
#define TARGET_EPIPE      32          /* Broken pipe */

/* math software */
#define TARGET_EDOM      33          /* Numerical argument out of domain */
#define TARGET_ERANGE      34          /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN      35          /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK  EAGAIN    /* Operation would block */
#define TARGET_EINPROGRESS  36          /* Operation now in progress */
#define TARGET_EALREADY
37          /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38          /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39          /* Destination address required */
#define TARGET EMSGSIZE 40          /* Message too long */
#define TARGET_EPROTOTYPE 41          /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42          /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43          /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44          /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45          /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46          /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47          /* Address family not supported by protocol family */

```

```

#define TARGET_EADDRINUSE    48      /* Address already in use */
#define
TARGET_EADDRNOTAVAIL    49      /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN    /* Network is down */
#define TARGET_ENETUNREACH    51      /* Network is unreachable */
#define TARGET_ENETRESET    52      /* Network dropped connection on reset */
#define TARGET_ECONNABORTED    53      /* Software caused connection abort */
#define TARGET_ECONNRESET    54      /* Connection reset by peer */
#define TARGET_ENOBUFS    55      /* No buffer space available */
#define TARGET_EISCONN    56      /* Socket is already connected */
#define TARGET_ENOTCONN    57      /* Socket is not connected */
#define TARGET_ESHUTDOWN    58      /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS    59      /* Too many references: can't splice */
#define TARGET_ETIMEDOUT    60      /* Operation timed
out */
#define TARGET_ECONNREFUSED    61      /* Connection refused */

#define TARGET_ELOOP    62      /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG    63      /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN    64      /* Host is down */
#define TARGET_EHOSTUNREACH    65      /* No route to host */
#define TARGET_ENOTEMPTY    66      /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM    67      /* Too many processes */
#define TARGET_EUSERS    68      /* Too many users */
#define TARGET_EDQUOT    69      /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE    70      /* Stale NFS file handle */
#define TARGET_EREMOTE    71      /* Too many levels of remote in path */
#define TARGET_EBADRPC    72      /* RPC struct is bad */
#define TARGET_ERPCMISMATCH
    73      /* RPC version wrong */
#define TARGET_EPROGUNAVAIL    74      /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH    75      /* Program version wrong */
#define TARGET_EPROCUNAVAIL    76      /* Bad procedure for program */

#define TARGET_ENOLCK    77      /* No locks available */
#define TARGET_ENOSYS    78      /* Function not implemented */

#define TARGET_EFTYPE    79      /* Inappropriate file type or format */
#define TARGET_EAUTH    80      /* Authentication error */
#define TARGET_ENEEDAUTH    81      /* Need authenticator */

```

```

#define TARGET_EIPSEC      82      /* IPsec processing failure */
#define TARGET_ENOATTR     83      /* Attribute not found */
#define TARGET_EILSEQ      84      /* Illegal byte sequence */
#define TARGET_ENOMEDIUM  85      /* No medium found */
#define TARGET_EMEDIUMTYPE 86
    /* Wrong Medium Type */
#define TARGET_EOVERFLOW   87      /* Conversion overflow */
#define TARGET_ECANCELED   88      /* Operation canceled */
#define TARGET_EIDRM       89      /* Identifier removed */
#define TARGET_ENOMSG      90      /* No message of desired type */
#define TARGET_ELAST       90      /* Must be equal largest errno */

```

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/*

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*

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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 },
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  "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
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{ 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, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\", %d)", 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_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\", %d)", 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, %d, %d)", 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 },
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{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
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},
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{ 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_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_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
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{ 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_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, 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_freebsd6_mmap,
  "freebsd6_mmap", 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_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 },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
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{ 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_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_lstat, "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_mknod, "mknod", "%s(\"%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 },

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{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ 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_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", 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_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 },
{ 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 },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ 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", NULL, NULL, NULL },
{ 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_stat, "stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", 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 },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ 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_vfork, "vfork", NULL, NULL, NULL },

```

```
{ TARGET_FREEBSD_NR_wait4, "wait4", 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 },
```

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```

```
ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

SUBDIRS=
ifeq ($(SNK_BIOSEMU_APPS), 1)
SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)

all :
for subdir in $(SUBDIRS) ; do $(MAKE) -C $$subdir || exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $$subdir $@ ; done
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ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

ROOTDIR ?= ../..

LDFLAGS =
ASFLAGS = -I./include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS = -UDEBUG -m64 -I. -I./include -I./include/x86emu \
-I$(TOP)/clients/net-snk/include -I$(ROOTDIR)/include \
-I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \
-ffreestanding -Wall -Wno-unused

X86EMU_OBJS =
debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S
$(CC) $(ASFLAGS) -c -o $@ $^

%.o: %.c
$(CC) $(CFLAGS) -c -o $@ $^

all: libx86emu.a

libx86emu.a: $(X86EMU_OBJS)
$(AR) -rc $@ $^
$(RANLIB) $@

clean:
$(RM) *.o *.i *.s libx86emu.a

distclean: clean
/*   $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $   */

/*
 * System call numbers.
 *
 * created from;   $OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp

```

*/

```
#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open 5
#define TARGET_OPENBSD_NR_close 6
#define TARGET_OPENBSD_NR_wait4 7
#define TARGET_OPENBSD_NR_link 9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_chdir 12
#define TARGET_OPENBSD_NR_fchdir 13
#define TARGET_OPENBSD_NR_mknod 14
#define TARGET_OPENBSD_NR_chmod 15
#define TARGET_OPENBSD_NR_chown 16
#define TARGET_OPENBSD_NR_break 17
#define TARGET_OPENBSD_NR_getpid 20
#define TARGET_OPENBSD_NR_mount 21
#define TARGET_OPENBSD_NR_unmount 22
#define TARGET_OPENBSD_NR_setuid
    23
#define TARGET_OPENBSD_NR_getuid 24
#define TARGET_OPENBSD_NR_geteuid 25
#define TARGET_OPENBSD_NR_ptrace 26
#define TARGET_OPENBSD_NR_recvmsg 27
#define TARGET_OPENBSD_NR_sendmsg 28
#define TARGET_OPENBSD_NR_recvfrom 29
#define TARGET_OPENBSD_NR_accept 30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access 33
#define TARGET_OPENBSD_NR_chflags 34
#define TARGET_OPENBSD_NR_fchflags 35
#define TARGET_OPENBSD_NR_sync 36
#define TARGET_OPENBSD_NR_kill 37
#define TARGET_OPENBSD_NR_getppid 39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe 42
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_profil 44
#define TARGET_OPENBSD_NR_ktrace 45
#define TARGET_OPENBSD_NR_sigaction 46
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin 49
#define TARGET_OPENBSD_NR_setlogin
```

```

#define TARGET_OPENBSD_NR_acct      51
#define TARGET_OPENBSD_NR_sigpending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl     54
#define TARGET_OPENBSD_NR_reboot    55
#define TARGET_OPENBSD_NR_revoke    56
#define TARGET_OPENBSD_NR_symlink   57
#define TARGET_OPENBSD_NR_readlink  58
#define TARGET_OPENBSD_NR_execve    59
#define TARGET_OPENBSD_NR_umask     60
#define TARGET_OPENBSD_NR_chroot    61
#define TARGET_OPENBSD_NR_vfork     66
#define TARGET_OPENBSD_NR_sbrk      69
#define TARGET_OPENBSD_NR_sstk      70
#define TARGET_OPENBSD_NR_munmap    73
#define TARGET_OPENBSD_NR_mprotect  74
#define TARGET_OPENBSD_NR_madvise    75
#define TARGET_OPENBSD_NR_mincore   78
#define TARGET_OPENBSD_NR_getgroups  79
#define TARGET_OPENBSD_NR_setgroups  80
#define TARGET_OPENBSD_NR_getpggrp  81
#define TARGET_OPENBSD_NR_setpgid    82
#define TARGET_OPENBSD_NR_setitimer  83
#define TARGET_OPENBSD_NR_getitimer  86
#define TARGET_OPENBSD_NR_dup2       90
#define TARGET_OPENBSD_NR_fcntl      92
#define TARGET_OPENBSD_NR_select     93
#define TARGET_OPENBSD_NR_fsync      95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket     97
#define TARGET_OPENBSD_NR_connect    98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn  103
#define TARGET_OPENBSD_NR_bind       104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_listen     106
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage   117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv      120
#define TARGET_OPENBSD_NR_writev     121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown     123
#define TARGET_OPENBSD_NR_fchmod     124
#define TARGET_OPENBSD_NR_setreuid   126

```

```

#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename
128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segclean 186
#define TARGET_OPENBSD_NR_lfs_segwait
187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NR_truncate 200
#define TARGET_OPENBSD_NR_ftruncate 201
#define TARGET_OPENBSD_NR___sysctl 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfspioctl 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_msgrcv 227

```

```

#define TARGET_OPENBSD_NR_shmat      228
#define TARGET_OPENBSD_NR_shmdt      230
#define TARGET_OPENBSD_NR_clock_gettime
    232
#define TARGET_OPENBSD_NR_clock_settime  233
#define TARGET_OPENBSD_NR_clock_getres  234
#define TARGET_OPENBSD_NR_nanosleep  240
#define TARGET_OPENBSD_NR_minherit  250
#define TARGET_OPENBSD_NR_rfork      251
#define TARGET_OPENBSD_NR_poll       252
#define TARGET_OPENBSD_NR_issetugid  253
#define TARGET_OPENBSD_NR_lchown     254
#define TARGET_OPENBSD_NR_getsid     255
#define TARGET_OPENBSD_NR_msync      256
#define TARGET_OPENBSD_NR_pipe       263
#define TARGET_OPENBSD_NR_fhopen     264
#define TARGET_OPENBSD_NR_preadv     267
#define TARGET_OPENBSD_NR_pwritev    268
#define TARGET_OPENBSD_NR_kqueue     269
#define TARGET_OPENBSD_NR_kevent     270
#define TARGET_OPENBSD_NR_mlockall   271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeereid 273
#define TARGET_OPENBSD_NR_getresuid  281
#define TARGET_OPENBSD_NR_setresuid  282
#define TARGET_OPENBSD_NR_getresgid  283
#define TARGET_OPENBSD_NR_setresgid
    284
#define TARGET_OPENBSD_NR_mquery     286
#define TARGET_OPENBSD_NR_closefrom  287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget     289
#define TARGET_OPENBSD_NR_semop      290
#define TARGET_OPENBSD_NR_stat        291
#define TARGET_OPENBSD_NR_fstat       292
#define TARGET_OPENBSD_NR_lstat       293
#define TARGET_OPENBSD_NR_fhstat      294
#define TARGET_OPENBSD_NR___semctl    295
#define TARGET_OPENBSD_NR_shmctl     296
#define TARGET_OPENBSD_NR_msgctl     297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid    299
#define TARGET_OPENBSD_NR_thrsleep    300
#define TARGET_OPENBSD_NR_thrwakeups  301
#define TARGET_OPENBSD_NR_threxit     302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd    304
#define TARGET_OPENBSD_NR_adjfreq     305

```



```

#define TARGET_OPENBSD_NR_getfsstat 306
#define TARGET_OPENBSD_NR_statfs 307
#define TARGET_OPENBSD_NR_fstatfs 308
#define TARGET_OPENBSD_NR_fhstatfs
    309

/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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 */

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```
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Linus Torvalds

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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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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

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The

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section 10

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh,
admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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=====

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<!-- \$Id\$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

```

xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', ' ')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param
name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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    License, v. 2.0. If a copy of the MPL was not distributed with this
    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
    <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:

```

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1.101 curl 7.66.0-r0

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1.102 semodule-utils 2.8-r0

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1.103 procps 3.3.15-r0

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1.104 setools 4.1.1-r0

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1.106 libgpiod 1.2-r0

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1.108 Ittng-ust 2.10.3-r0

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*/

#ifndef _LTTNG_UST_CTL_PRIVATE_H
#define _LTTNG_UST_CTL_PRIVATE_H

#include <lttng/ust-ctl.h>

/*
 * Map channel lttng_ust_shm_handle and add
 * streams. Typically performed
 * by the application to map the objects into its memory space.
 */
struct lttng_ust_shm_handle *
ustctl_map_channel(struct lttng_ust_object_data *chan_data);
int ustctl_add_stream(struct lttng_ust_shm_handle *lttng_ust_shm_handle,
struct lttng_ust_object_data *stream_data);
/*
 * Note: the lttng_ust_object_data from which the lttng_ust_shm_handle
 * is derived can only be released after unmapping the handle.
 */
void ustctl_unmap_channel(struct lttng_ust_shm_handle *lttng_ust_shm_handle);

#endif /* _LTTNG_UST_CTL_PRIVATE_H */

```

1.109 sqlite 3.23.1-r0

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src/merge.c
src/nlist.c
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man/fmtcheck.3bsd

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man/stringlist.3bsd

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src/fparseln.c

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man/readpassphrase.3bsd
man/strlcpy.3bsd
man/strtonum.3bsd
src/arc4random.c

src/arc4random_linux.h
src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
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src/hash/md5.c

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1.113 libatomic-ops 7.6.8-r0

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1.114 protobuf 3.6.1-r0

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- * 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.

Brian Atkinson <nairb774@gmail.com>

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

Vincent Choiniere <Choiniere.Vincent@hydro.qc.ca>

- * Tru64 support.

Monty Taylor <monty.taylor@gmail.com>

- * Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>

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

Oleg Smolsky <oleg.smolsky@gmail.com>

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

Brian Olson <brianolson@google.com>

- * gzip/zlib I/O support.

Michael Poole <mdpoole@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.

William Orr <will@worrbase.com>

- * 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)

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1.115 libsemanage-common 2.8-r0

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1.117 selinux-python 2.8-r0

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1.118 boost 1.68.0-r0

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```

```
#include <boost/mpl/push_back.hpp>
```

```

#include <boost/mpl/vector.hpp>

template <int i>
struct t { };

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;

int main() { }
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

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<head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

  <title>License &#8212; Boost.HigherOrderFunctions 0.6 documentation</title>

  <link rel="stylesheet" href="../../_static/boostbook.css" type="text/css" />
  <link rel="stylesheet" href="../../_static/pygments.css" type="text/css" />

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      VERSION: '0.6',
      COLLAPSE_INDEX: false,
      FILE_SUFFIX: '.html',
      HAS_SOURCE: true,
      SOURCELINK_SUFFIX: '.txt'
    };
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  <script type="text/javascript" src="../../_static/jquery.js"></script>
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  <link rel="prev" title="Acknowledgements" href="acknowledgements.html" />
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<td valign="top"></td>
</tr></table>

<div class="spirit-nav">
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<a accesskey="u" href="../../index.html"></a>
<a accesskey="h" href="../../index.html"></a>

```

```
<a accesskey="n" ></a>
</div>
```

```
<div class="document">
<div class="chapter">
  <div class="body" role="main">
```

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--><div class="section" id="license">
```

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```

```
object code generated by
```

```
a source language processor.</p>
```

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```

```
</div>
```

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</div>
```

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</div>
```

```
<div class="clearer"></div>
```

```
</div>
```

```
<div class="footer" role="contentinfo">
```

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```

```
<td align="left"></td>
```

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<td align="right"><div class="copyright-footer">
```

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</p>
</div></td>
</tr></table>
</div>
</body>
</html>

```

```

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```

```

#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>

```

```

template <typename X>
struct f { using type = X; };

```

```

template <int i>
struct t { };

```

```

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;

```

```

using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;

```

```

int main() { }

```

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```

//
// See http://www.boost.org/libs/intrusive for documentation.
//
////////////////////////////////////

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
# pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstdint>

namespace boost {
namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using
    boost::move_detail::remove_reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;

```



```

using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using
    boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME) \
    template <typename T> \
    struct boost_intrusive_has_type_ ## TNAME \
    { \
        template <typename X> \
        static char test(int, typename X::TNAME*); \
        \
        \
        template <typename X> \
        static int test(...); \
        \
        static const bool value = (1 == sizeof(test<T>(0, 0))); \
    }; \
    \
    template <typename T, typename DefaultType> \

```

```

struct boost_intrusive_default_type_ ## TNAME          \
{
    struct DefaultWrap { typedef DefaultType TNAME; }; \
    typedef typename                                     \
        ::boost::intrusive::detail::if_c                 \
        < boost_intrusive_has_type_ ## TNAME<T>::value    \
        , T, DefaultWrap>::type::TNAME type;            \
};
//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, \
TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX                                     \
        boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type      \
//

#define BOOST_INTRUSIVE_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME) \
    INSTANTIATION_NS_PREFIX \
        boost_intrusive_has_type_ ## TNAME< T >::value \
//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)\
template <typename T, typename DefaultType> \
struct boost_intrusive_eval_default_type_ ## TNAME \
{
    template <typename X> \
    static char \
test(int, typename X::TNAME*); \
    \
    template <typename X> \
    static int test(...); \
    \
    struct DefaultWrap \
    { typedef typename DefaultType::type TNAME; }; \
    \
    static const bool value = (1 == sizeof(test<T>(0, 0))); \
    \
    typedef typename \
        ::boost::intrusive::detail::eval_if_c \
        < value \
        , ::boost::intrusive::detail::identity<T> \
        , ::boost::intrusive::detail::identity<DefaultWrap> \
        >::type::TNAME type; \
};
//

```

```

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T,
TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX \
        boost_intrusive_eval_default_type_ ## TNAME< T, TIMPL >::type \
//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX,
TYPEDEF_TO_FIND) \
template <class T> \
struct TRAITS_PREFIX##_bool \
{ \
    template<bool Add> \
        struct two_or_three {yes_type _[2 + Add];}; \
    template <class U> static yes_type test(...); \
    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int); \
    static const std::size_t value = sizeof(test<T>(0)); \
}; \
\
template <class T> \
struct TRAITS_PREFIX##_bool_is_true \
{ \
    static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2; \
}; \
//

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME,
FUNC_NAME) \
template <typename U, typename Signature> \
class TRAITS_NAME \
{ \
    private: \
        template<Signature> struct helper; \
        template<typename T> \
            static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*); \
        template<typename T> static ::boost::intrusive::detail::no_type test(...); \
    public: \
        static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type); \
}; \
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
template <typename Type> \
struct TRAITS_NAME \
{ \
    struct BaseMixin \
    { \
        void FUNC_NAME(); \
    } \
};

```

```

}; \
struct Base : public Type, public BaseMixin { Base(); }; \
template <typename T, T t> class Helper{}; \
template <typename U> \
static ::boost::intrusive::detail::no_type test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); \
static ::boost::intrusive::detail::yes_type test(...); \

static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0))); \
}; \
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAIT_NAME, \
FUNC_NAME) \
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAIT_NAME##_ignore_signature, FUNC_NAME) \
\
\
template <typename Type, class> \
struct TRAIT_NAME \
: public TRAIT_NAME##_ignore_signature<Type> \
{}; \
//

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
=====
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[quickbook 1.5]

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]
```

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements
for an `[@../.../libs/mpl/doc/refmanual/integral-constant.html` Integral Constant type].

Please note that these types no longer inherit from ``mpl::true_`` or ``mpl::false_`` etc, and the library
will no longer implicitly include any MPL header. However there is an implicit conversion from
``integral_constant`` to the corresponding MPL types, therefore tag-dispatching that uses MPL types
in function overloads will still work as before.

[endsect]

```
[/  
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]  
<html>  
<head>  
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">  
<title>MPL Interoperability</title>  
<link rel="stylesheet" href="../.../doc/src/boostbook.css" type="text/css">  
<meta name="generator" content="DocBook XSL Stylesheets V1.79.1">  
<link rel="home" href="../index.html" title="Chapter&#160;1.&#160;Boost.TypeTraits">  
<link rel="up" href="../index.html" title="Chapter&#160;1.&#160;Boost.TypeTraits">  
<link rel="prev" href="intrinsics.html" title="Support for Compiler Intrinsics">  
<link rel="next" href="examples.html" title="Examples">  
</head>  
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">  
<table cellpadding="2" width="100%"><tr>  
<td valign="top"></td>  
<td align="center"><a href="../.../index.html">Home</a></td>  
<td align="center"><a href="../.../libs/libraries.htm">Libraries</a></td>
```

```

<td align="center"><a href="http://www.boost.org/users/people.html">People</a></td>
<td
align="center"><a href="http://www.boost.org/users/faq.html">FAQ</a></td>
<td align="center"><a href="http://www.boost.org/doc/html/index.html">More</a></td>
</tr></table>
<hr>
<div class="spirit-nav">
<a accesskey="p" href="http://www.boost.org/doc/html/intrinsics.html"></a><a
accesskey="u" href="http://www.boost.org/doc/html/index.html"></a><a accesskey="h"
href="http://www.boost.org/doc/html/index.html"></a><a accesskey="n"
href="http://www.boost.org/doc/html/examples.html"></a>
</div>
<div class="section">
<div class="titlepage"><div><div><h2 class="title" style="clear: both">
<a name="boost_type_traits"></a><a class="link" href="http://www.boost.org/doc/html/mpl.html" title="MPL Interoperability">MPL
Interoperability</a>
</h2></div></div></div>
<p>
All the value based traits in this library conform to MPL's requirements for
an <a
href="http://www.boost.org/doc/html/libs/mpl/doc/refmanual/integral-constant.html" target="_top">Integral
Constant type</a>.
</p>
<p>
Please note that these types no longer inherit from <code class="computeroutput"><span
class="identifier">mpl</span><span class="special">::</span><span class="identifier">true_</span></code> or
<code class="computeroutput"><span class="identifier">mpl</span><span class="special">::</span><span class="identifier">false_</span></code> etc, and the library will no longer
implicitly include any MPL header. However there is an implicit conversion
from <code class="computeroutput"><span class="identifier">integral_constant</span></code> to the
corresponding MPL types, therefore tag-dispatching that uses MPL types in function
overloads will still work as before.
</p>
</div>
<table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"><tr>
<td align="left"></td>
<td align="right"><div class="copyright-footer">Copyright
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Frederic Bron, Steve Cleary, Beman Dawes, Aleksey Gurtovoy, Howard Hinnant,
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target="_top">http://www.boost.org/LICENSE_1_0.txt</a>)
</p>
</div></td>
</tr></table>

```



```

<hr>
<div class="spirit-nav">
<a accesskey="p" href="intrinsics.html"></a><a
accesskey="u" href="../index.html"></a><a accesskey="h"
href="../index.html"></a><a accesskey="n"
href="examples.html"></a>
</div>
</body>
</html>

```

[article Copyright Test

[quickbook 1.5]

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[copyright 1977,1985 Someone else]

]

```
var group__group_ext_mpl =
```

```
[
  [ "integral_c", "structboost_1_1mpl_1_1integral__c.html", null ],
  [ "list", "structboost_1_1mpl_1_1list.html", null ],
  [ "vector", "structboost_1_1mpl_1_1vector.html", null ]
];
```

```
////////////////////////////////////
```

```
//
```

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```

```
//
```

```
// See http://www.boost.org/libs/container for documentation.
```

```
//
```

```
////////////////////////////////////
```

```
#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
```

```
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
```

```
#ifndef BOOST_CONFIG_HPP
```

```
# include <boost/config.hpp>
```

```
#endif
```

```
#if defined(BOOST_HAS_PRAGMA_ONCE)
```

```
# pragma once
```

```
#endif
```

```
#include <boost/container/detail/config_begin.hpp>
```

```
#include <boost/container/detail/workaround.hpp>
```

```
#include <boost/move/detail/type_traits.hpp>
```

```
#include <boost/intrusive/detail/mpl.hpp>
```

```

#include <cstdint>

namespace boost {
namespace container {
namespace dtl {

using boost::move_detail::integral_constant;
using boost::move_detail::true_type;
using
    boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::identity;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;
using boost::move_detail::or_;
using boost::move_detail::not_;
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

template
    <class FirstType>
struct select1st
{
    typedef FirstType type;

    template<class T>
    const type& operator()(const T& x) const
    { return x.first; }

```

```

template<class T>
type& operator()(T& x)
{ return const_cast<type&>(x.first); }
};

template <class T, class=void>
struct is_transparent
{
    static const bool value = false;
};

template <class T>
struct is_transparent<T, typename T::is_transparent>
{
    static const bool value = true;
};

template <typename C, typename K, typename R>
struct enable_if_transparent
: boost::move_detail::enable_if_c<dtl::is_transparent<C>::value, R>
{};

} //namespace dtl {
} //namespace container {
} //namespace boost {

#include <boost/container/detail/config_end.hpp>

#endif //ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
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```

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```
#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow',
              '--date=short', '--format=%aN%x09%ad', filename],
              universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('\t')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '{0}' if start.year ==
end.year else '{0}-{1}'
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
            key = (start, author)
            yield key, line
    return map(itemgetter(1), sorted(f()))

def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
    names = []
    lines = []
    with open(filename, 'r') as f:
        content = list(f)
    for i, line in enumerate(content[:15]):
        m = re.match(r'^((?P<prefix>\W*)(\c\))?\s*?copyright\s*(\c\))?\s+\d{4}(\s*-\s*\d{4})?\s+(?P<name>.+?)\s*$',
line, re.IGNORECASE)
```

```

    if m:
        d = m.groupdict()
        prefix.add(d['prefix'])
        lines.append(i)
        names.append(d['name'].strip())
    if len(prefix) != 1:
        print 'Not found:', filename
        return
    prefix = list(prefix)[0]

    print filename
    new = iter(new_copyright(filename, names))
    with open(filename, 'w') as f:
        for i, line in enumerate(content):
            if i in
lines:
            for repl in new:
                print >>f, prefix + repl
            else:
                print >>f, line,
        pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename

for f in all_files():
    fix_copyright(f)
[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]

Maybe this should pass?
<?xml version="1.0" encoding="utf-8"?>

<!-- Copyright (c) 2001-2006 CrystalClear Software, Inc.
    Subject to the Boost Software License, Version 1.0.
    (See accompanying file LICENSE_1_0.txt or http://www.boost.org/LICENSE\_1\_0.txt)
-->

<section id="date_time.license">
<title>Boost Date-Time Library License</title>
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
<!--
<ulink url="../../index.htm">

```

```

<imagedata align="left"
    format="GIF"
    fileref="../../boost.png"
    alt="C++ Boost" />
</ulink>-->
<!--hr /-->
<para>
    The following is the overall license for the boost date_time
    library. This notice is found in all source files related to the
    library.
</para>
<para>
    Copyright © 2002 CrystalClear Software, Inc.
</para>
<para>
    Permission to use, copy, modify, distribute and sell this software
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    warranty.
</para>
<!--hr / -->
<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>
    © 2000-2002
</section>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

    <title><no title> © Boost.HigherOrderFunctions 0.6 documentation</title>

    <link rel="stylesheet" href="_static/boostbook.css" type="text/css" />
    <link rel="stylesheet" href="_static/pygments.css" type="text/css" />

    <script type="text/javascript">
        var DOCUMENTATION_OPTIONS = {
            URL_ROOT:    './',
            VERSION:    '0.6',
            COLLAPSE_INDEX: false,
            FILE_SUFFIX: '.html',

```

```

    HAS_SOURCE: true,
    SOURCELINK_SUFFIX: '.txt'
};
</script>
<script type="text/javascript" src="_static/jquery.js"></script>
<script type="text/javascript" src="_static/underscore.js"></script>
<script type="text/javascript" src="_static/doctools.js"></script>
<link rel="index"
title="Index" href="genindex.html" />
<link rel="search" title="Search" href="search.html" />
</head>
<body role="document">
<table cellpadding="2" width="100%"><tr>
<td valign="top"></td>
</tr></table>

<div class="spirit-nav">
<a accesskey="p" ></a>
<a accesskey="u" href="doc/index.html"></a>
<a accesskey="h" href="doc/index.html"></a>
<a accesskey="n" ></a>
</div>

<div class="document">
<div class="chapter">
    <div class="body" role="main">

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DEALINGS IN THE SOFTWARE.</p>

```
</div>
</div>
<div class="clearer"></div>
</div>
<div class="footer" role="contentinfo">
<table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"><tr>
<td align="left"></td>
<td align="right"><div class="copyright-footer">
    &#169; Copyright 2016, Paul Fultz II.

    Created using <a href="http://sphinx-doc.org/">Sphinx</a> 1.5.6.
    <p>Distributed under the Boost Software License, Version 1.0.
    (See accompanying file <code class="filename">LICENSE_1_0.txt</code> or copy at
    <a href="http://www.boost.org/LICENSE_1_0.txt"
target="_top">http://www.boost.org/LICENSE_1_0.txt</a>)
    </p>
</div></td>
</tr></table>
</div>
</body>
</html>
<!--
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-->
<!-- boost-no-inspect -->
<!-- HTML header for doxygen 1.8.9.1-->
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/xhtml; charset=UTF-8"/>
<meta http-equiv="X-UA-Compatible" content="IE=9"/>
<meta name="generator" content="Doxygen 1.8.11"/>
<title>Boost.Hana: Boost.MPL adapters</title>
<link href="tabs.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="jquery.js"></script>
<script type="text/javascript" src="dynsections.js"></script>
<link href="navtree.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="resize.js"></script>
<script type="text/javascript" src="navtreedata.js"></script>
```



```

<script type="text/javascript"
src="navtree.js"></script>
<script type="text/javascript">
$(document).ready(initResizable);
$(window).load(resizeHeight);
</script>
<link href="search/search.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="search/searchdata.js"></script>
<script type="text/javascript" src="search/search.js"></script>
<script type="text/javascript">
$(document).ready(function() { init_search(); });
</script>
<script type="text/x-mathjax-config">
MathJax.Hub.Config({
  extensions: ["tex2jax.js"],
  jax: ["input/TeX","output/HTML-CSS"],
});
// Copyright Louis Dionne 2013-2017
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MathJax.Hub.Config({
  "HTML-CSS": {
    linebreaks: {
      automatic: true,
      width: "75% container"
    }
  }
});
</script><script type="text/javascript" src="https://cdn.mathjax.org/mathjax/latest/MathJax.js"></script>
<link
href="doxygen.css" rel="stylesheet" type="text/css" />
<!-- Additional javascript for drawing charts. -->
<script type="text/javascript" src="highcharts.js"></script>
<script type="text/javascript" src="highcharts-data.js"></script>
<script type="text/javascript" src="highcharts-exporting.js"></script>
<script type="text/javascript" src="chart.js"></script>
<script type="text/javascript" src="hana.js"></script>
</head>
<body>
<div id="top"><!-- do not remove this div, it is closed by doxygen! -->
<div id="titlearea">
<table cellpadding="0" cellspacing="0">
<tbody>
<tr style="height: 56px;">
<td id="projectlogo"></td>
<td style="padding-left: 0.5em;">
<div id="projectname">Boost.Hana
&#160;<span id="projectnumber">1.5.0</span>

```

```

</div>
<div id="projectbrief">Your standard library for metaprogramming</div>
</td>
<td>    <div id="MSearchBox" class="MSearchBoxInactive">
        <span class="left">


        <input type="text" id="MSearchField" value="Search" accesskey="S"
        onfocus="searchBox.OnSearchFieldFocus(true)"
        onblur="searchBox.OnSearchFieldFocus(false)"
        onkeyup="searchBox.OnSearchFieldChange(event)"/>
        </span><span class="right">
            <a id="MSearchClose" href="javascript:searchBox.CloseResultsWindow()"></a>
        </span>
    </div>
</td>
</tr>
</tbody>
</table>
</div>
<!-- end header part -->
<!-- Generated by Doxygen 1.8.11 -->
<script type="text/javascript">
var searchBox = new SearchBox("searchBox", "search",false,'Search');
</script>
</div><!-- top -->
<div id="side-nav" class="ui-resizable side-nav-resizable">
<div id="nav-tree">
    <div id="nav-tree-contents">
        <div id="nav-sync" class="sync"></div>
    </div>
</div>
<div id="splitbar" style="-moz-user-select:none;"
    class="ui-resizable-handle">
</div>
</div>
<script type="text/javascript">
$(document).ready(function(){initNavTree('group__group-ext-mpl.html','');});
</script>
<div id="doc-content">
<!-- window showing the filter options -->
<div id="MSearchSelectWindow"
    onmouseover="return searchBox.OnSearchSelectShow()"
    onmouseout="return searchBox.OnSearchSelectHide()"

```

```

        onkeydown="return searchBox.OnSearchSelectKey(event)">
</div>

<!-- iframe showing the search results (closed by default) -->
<div id="MSearchResultsWindow">
<iframe src="javascript:void(0)" frameborder="0"
        name="MSearchResults" id="MSearchResults">
</iframe>
</div>

<div class="header">
    <div class="summary">
<a href="#nested-classes">Classes</a> </div>
    <div class="headertitle">
<div class="title">Boost.MPL adapters<div class="ingroups"><a
        class="el" href="group__group-ext.html">External adapters</a></div></div> </div>
</div><!-- header -->
<div class="contents">
<a name="details" id="details"></a><h2 class="groupheader">Description</h2>
<p>Adapters for Boost.MPL containers. </p>
<table class="memberdecls">
<tr class="heading"><td colspan="2"><h2 class="groupheader"><a name="nested-classes"></a>
Classes</h2></td></tr>
<tr class="memitem"><td class="memItemLeft" align="right" valign="top">struct &#160;</td><td
        class="memItemRight" valign="bottom"><a class="el"
        href="structboost_1_1mpl_1_1integral__c.html">boost::mpl::integral_c< T, v ></a></td></tr>
<tr class="memdesc"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for IntegralConstants
        from the Boost.MPL. <a href="structboost_1_1mpl_1_1integral__c.html#details">More...</a><br /></td></tr>
<tr class="separator"><td colspan="2">&#160;</td></tr>
<tr class="memitem"><td class="memItemLeft" align="right" valign="top">struct &#160;</td><td
        class="memItemRight" valign="bottom"><a class="el" href="structboost_1_1mpl_1_1list.html">boost::mpl::list<
        T ></a></td></tr>
<tr class="memdesc"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for Boost.MPL lists.
        <a href="structboost_1_1mpl_1_1list.html#details">More...</a><br /></td></tr>
<tr class="separator"><td colspan="2">&#160;</td></tr>
<tr class="memitem"><td class="memItemLeft" align="right" valign="top">struct &#160;</td><td
        class="memItemRight" valign="bottom"><a class="el"
        href="structboost_1_1mpl_1_1vector.html">boost::mpl::vector< T ></a></td></tr>
<tr class="memdesc"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for Boost.MPL
        vectors. <a href="structboost_1_1mpl_1_1vector.html#details">More...</a><br /></td></tr>
<tr class="separator"><td colspan="2">&#160;</td></tr>
</table>
</div><!-- contents -->
</div><!-- doc-content -->
<!--

```

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```

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-->
<!-- boost-no-inspect -->
<!-- HTML footer for doxygen 1.8.9.1-->
<!-- start footer part -->
<div id="nav-path" class="navpath"><!-- id is needed for treeview function! -->
<ul>
</ul>
</div>
</body>
</html>

```

The following people hereby grant permission to replace all existing licenses on their contributions to Boost with the Boost Software License, Version 1.0. (boostinspect:nolicense boostinspect:nocopyright)

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Herve Bronnimann (hbr -at- poly.edu)
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Brnnimann (hbr -at- poly.edu)
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Cleary (Variant of Stephen Cleary)
Sylvain Pion (Sylvain.Pion - at - sophia.inria.fr)
The Trustees of Indiana University ()
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Trustees of Indiana University ()
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Vladimir Prus (ghost@cs.msu.su)
William E. Kempf () (email to Beman Dawes, 9/14/2006 4:18 PM)
Joerg Walter (jhr.walter - at - t-online.de : email to ublas mailing list Mon, 17 Sep 2007 10:17:08 +0200)
Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- end ---

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.

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

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

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

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

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

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

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

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

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

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

the SunOS dynamic loader

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

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu(hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson(brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen(Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard(beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz(schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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```

<!DOCTYPE html>
<html>
<head></head>
<body>
  <h3>
    Copyright Test
  </h3>
  <p class="copyright">
    1963, 1964, 1965 Jane Doe
  </p>
  <p class="copyright">
    2018 Joe Blow, John Coe
  </p>
  <p class="copyright">
    1977, 1985 Someone else
  </p>
</body>
</html>
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost/DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
  <title>Copyright Test</title>
  <articleinfo>
    <copyright>
      <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
    </copyright>
    <copyright>
      <year>2018</year> <holder>Joe Blow, John Coe</holder>
    </copyright>
    <copyright>
      <year>1977</year> <year>1985</year> <holder>Someone else</holder>
    </copyright>
  </articleinfo>
</article>
Software License, Version 1.0

```

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////

[#mpl]

MPL Support, <boost/mp11/mpl.hpp>

:toc:

:toc-title:

:idprefix:

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

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

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#include <boost/mpl/fold.hpp>

#include <boost/mpl/push_back.hpp>

#include <boost/mpl/quote.hpp>

#include <boost/mpl/vector.hpp>

template <typename State, typename X>

struct f { using type = X; };

struct state { };

template <int i>

struct t { };

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;

using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type;

```

int main() { }

/////////////////////////////////////////////////////////////////
//
// (C) Copyright Ion Gaztanaga 2005-2016.
//
// Distributed under the Boost Software License, Version 1.0.
// (See accompanying file LICENSE_1_0.txt or copy at
// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/interprocess for documentation.
//
/////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif
#
#if defined(BOOST_HAS_PRAGMA_ONCE)
# pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
};

typedef bool_<true>    true_;
typedef
bool_<false>    false_;

typedef true_ true_type;

```

```

typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
>
struct if_
{

```

```

typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {

#endif //ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
[/=====
Boost.Geometry (aka GGL, Generic Geometry Library)

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=====/]

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* LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE\_1\_0.txt)
*
*/

#include "licence_info.hpp"

```

```

#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f){}
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href=\"" << (p.root / p.file).string() << "\">" << p.file.string() << "</a>";
    return os;
}

std::string
make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

```



```

std::map<int, license_data>::const_iterator i, j;
i = m_license_data.begin();
j = m_license_data.end();

std::ofstream os(m_dest_path.string().c_str());
if(!os)
{
    std::string msg("Error opening ");
    msg += m_dest_path.string();
    msg += " for output.";
    std::runtime_error e(msg);
    boost::throw_exception(e);
}
os <<
    "<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">\n"
    "<html>\n"
    "<head>\n"
    "<title>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}
os <<
    "</title>\n"
    "</head>\n"
    "<body>\n"
    "<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}
os <<
    "</H1>\n"
    "<H2>Contents</h2>\n"
    "<pre><a href=\"#input\">Input Information</a>\n";
if(!m_bsl_summary_mode)
    os << "<a href=\"#summary\">Licence Summary</a>\n";
os << "<a href=\"#details\">Licence Details</a>\n";

while(i != j)
{
    // title:
    os << "  <A href=\"#\" << make_link_target(licenses.first[i->first].license_name)
        << "\">" << licenses.first[i->first].license_name << "</a>\n";
    ++i;
}

os << "<a href=\"#files\">Files with no recognised license</a>\n"

```

```

    "<a href=\"#authors\">Files with no recognised copyright holder</a>\n";
if(!m_bsl_summary_mode)
{
    os <<
    "Moving to the Boost Software License...\n"
    " <a href=\"#bsl-converted\">Files
that can be automatically converted to the Boost Software License</a>\n"
    " <a href=\"#to-bsl\">Files that can be manually converted to the Boost Software License</a>\n"
    " <a href=\"#not-to-bsl\">Files that can <b>NOT</b> be moved to the Boost Software License</a>\n"
    " <a href=\"#need-bsl-authors\">Authors we need to move to the Boost Software License</a>\n"
    "<a href=\"#copyright\">Copyright Holder Information</a>\n";
}
os <<
    "<a href=\"#depend\">File Dependency Information</a>\n"
    "</pre>";

//
// input Information:
//
os << "<a name=\"input\"></a><h2>Input Information</h2>\n";
if(m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies:<BR>";
else
    os << "<P>The following Boost modules were checked:<BR>";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os
    << *si << "<BR>";
    ++si;
}
os << "<p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>";
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
    "^[[:blank:]]*#[[:blank:]]*define[[:blank:]]+BOOST_VERSION[[:blank:]]+(\d+)");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100
    << "</P>\n";
}

```

```

}

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    //
    // start with the summary:
    //
    os << "<a name=\"summary\"></a><h2>Licence
Summary</h2>\n";
    while(i != j)
    {
        // title:
        os <<
            "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<P>This license is used by " << i->second.authors.size()
            << " authors and " << i->second.files.size()
            << " files <a href=\"#" << make_link_target(licenses.first[i->first].license_name) << "\">(see details)</a>";
        os << "</P></BLOCKQUOTE>\n";
        ++i;
    }
}
//
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name=\"details\"></a><h2>Licence Details</h2>\n";
while(i != j)
{
    // title:
    os <<
        "<H3><A name=\"" << make_link_target(licenses.first[i->first].license_name)
        << "\"></a>" << licenses.first[i->first].license_name
    << "</H3>\n";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
        // Copyright holders:

```

```

        os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:</P>\n<BLOCKQUOTE><P>";
        std::set<std::string>::const_iterator x, y;
        x = i->second.authors.begin();
        y = i->second.authors.end();
        while(x != y)
        {
            os << *x << "<BR>\n";
            ++x;
        }
        os << "</P></BLOCKQUOTE>\n";
        // Files using this license:
        os << "<P>This license applies to the following " << i->second.files.size() << "
files:</P>\n<BLOCKQUOTE><P>";
        std::set<fs::path, path_less>::const_iterator m, n;
        m = i->second.files.begin();
        n = i->second.files.end();
        while(m != n)
        {
            os << split_path(m_boost_path,
*m) << "<br>\n";
            ++m;
        }
        os << "</P></BLOCKQUOTE>\n";
    }
    else
    {
        os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
        os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
    }
    ++license_index;
    ++i;
}
//
// Output list of files not found to be under license control:
//
os << "<h2><a name=\"files\"></a>Files With No Recognisable Licence</h2>\n"
    "<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:</P><BLOCKQUOTE><P>\n";
    std::set<fs::path, path_less>::const_iterator i2, j2;
    i2 = m_unknown_licenses.begin();
    j2 = m_unknown_licenses.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>\n";
        ++i2;
    }
    os << "</p></BLOCKQUOTE>";

```

```

//
// Output list of files with no found
copyright holder:
//
os << "<h2><a name=\"authors\"></a>Files With No Recognisable Copyright Holder</h2>\n"
    "<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:</P>\n<BLOCKQUOTE><P>";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
    //
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    os << "<h2><a name=\"bsl-converted\"></a>Files that can be automatically converted to the Boost Software
License</h2>\n"
        << "<P>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:</P>\n";
    if (!m_converted_to_bsl.empty())

    {
        typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
            ::const_iterator conv_iterator;
        conv_iterator i = m_converted_to_bsl.begin(),
            ie = m_converted_to_bsl.end();
        int file_num = 1;
        while (i != ie)
        {
            os << "<P>[" << file_num << "]" File: <tt>" << split_path(m_boost_path, i->first)
                << "</tt><br>\n<table border=\"1\">\n  <tr>\n    <td><pre>"
                << i->second.first << "</pre></td>\n    <td><pre>"
                << i->second.second << "</pre></td>\n  </tr>\n</table>\n";
            ++i;
            ++file_num;
        }
    }
    //
    // Output list of files that could be moved over to the Boost Software License
    //
    os << "<h2><a name=\"to-bsl\"></a>Files that could be converted to the Boost Software License</h2>\n"

```

```

"<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually
converted to the Boost Software License, but have not yet been:</P>\n<BLOCKQUOTE><P>";
    i2 = m_can_migrate_to_bsl.begin();
    j2 = m_can_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>\n";
        ++i2;
    }
    os << "</p></BLOCKQUOTE>";
    //
    // Output list of files that can not be moved over to the Boost Software License
    //
    os << "<h2><a name=\"not-to-bsl\"></a>Files that can NOT be converted to the Boost Software
License</h2>\n"
    "<P>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software
License because we need the permission of more authors:</P>\n<BLOCKQUOTE><P>";
    i2 = m_cannot_migrate_to_bsl.begin();
    j2 = m_cannot_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>\n";
        ++i2;
    }
    os << "</p></BLOCKQUOTE>";
    //
    // Output list of authors that
we need permission for to move to the BSL
    //
    os << "<h2><a name=\"need-bsl-authors\"></a>Authors we need for the BSL</h2>\n"
    "<P>Permission of the following authors is needed before we can convert to the Boost Software License. The
list of authors that have given their permission is contained in <code>more/blanket-
permission.txt</code>.</P>\n<BLOCKQUOTE><P>";
    std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
        std::ostream_iterator<std::string>(os, "<br>\n"));
    os << "</p></BLOCKQUOTE>";
    //
    // output a table of copyright information:
    //
    os << "<H2><a name=\"copyright\"></a>Copyright Holder Information</H2><table border=\"1\">\n";
    std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
    ad = m_author_data.begin();
    ead = m_author_data.end();
    while(ad != ead)
    {
        os << "<tr><td>" << ad->first << "</td><td>";
        std::set<fs::path,

```

```

path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td></tr>\n";
    ++ad;
}
os << "</table>\n";
}

//
// output file dependency information:
//
os << "<H2><a name=\"depend\"></a>File Dependency Information</H2><BLOCKQUOTE><pre>\n";
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(),
m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
        ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
    fi = bad_paths.begin();
    efi = bad_paths.end();
    os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);

```

```

last_dep = m_dependencies.end();
std::set<fs::path, path_less> seen_deps;
if (dep != last_dep)
while(true)
{
    os << " -> ";
    if(fs::exists(m_boost_path / dep->second))
        os << split_path(m_boost_path, dep->second);
    else if(fs::exists(dep->second))
        os << split_path(fs::path(), dep->second);
    else
        os << dep->second.string();
    if(seen_deps.find(dep->second) != seen_deps.end())
    {
        os << " <I>(Circular dependency!)</I>";
        break; // circular dependency!!!
    }
    seen_deps.insert(dep->second);
    last_dep = dep;
    dep = m_dependencies.find(dep->second);
    if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
        break;
}
os << "\n";
++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>\n";

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ".";
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

}

```

1.119 gawk 4.2.1-r0

1.119.1 Available under license :

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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This option is useful when you wish to copy part of the code of the

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

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

The

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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

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1.121 python-ipy 0.83-r0

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1.122 initscripts 1.0-r155

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+++ b/COPYING
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```

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1.124 selinux 2.8-r0

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/* GNU m4 -- A simple macro processor

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*/

#include "m4.h"

#include <getopt.h>

#include <limits.h>

#include <signal.h>

#include "c-stack.h"

#include "ignore-value.h"

#include "progname.h"

#include "version-etc.h"

```

#ifdef DEBUG_STKOVF
#
#include "assert.h"
#endif

#define AUTHORS "Rene' Seindal"

static void usage (int) M4_GNUC_NORETURN;

/* Enable sync output for /lib/cpp (-s). */
int sync_output = 0;

/* Debug (-d[flags]). */
int debug_level = 0;

/* Hash table size (should be a prime) (-Hsize). */
size_t hash_table_size = HASHMAX;

/* Disable GNU extensions (-G). */
int no_gnu_extensions = 0;

/* Prefix all builtin functions by `m4_'. */
int prefix_all_builtins = 0;

/* Max length of arguments in trace output (-lsize). */
int max_debug_argument_length = 0;

/* Suppress warnings about missing arguments. */
int suppress_warnings = 0;

/* If true, then warnings affect exit status. */
static bool fatal_warnings = false;

/* If not zero, then value of exit status for warning diagnostics. */
int warning_status = 0;

/* Artificial limit for expansion_level in macro.c. */
int nesting_limit = 1024;

#ifdef ENABLE_CHANGEWORD
/* User provided regexp for describing m4
words. */
const char *user_word_regexp = "";
#endif

/* Global catchall for any errors that should affect final error status, but
where we try to continue execution in the meantime. */

```

```

int retcode;

struct macro_definition
{
    struct macro_definition *next;
    int code; /* D, U, s, t, '1', or DEBUGFILE_OPTION. */
    const char *arg;
};
typedef struct macro_definition macro_definition;

/* Error handling functions. */

/*-----.
| Wrapper around error. |
`-----*/

void
m4_error (int status, int errnum, const char *format, ...)
{
    va_list args;
    va_start (args, format);
    verror_at_line (status, errnum, current_line ? current_file : NULL,
                    current_line, format, args);
    if (fatal_warnings && ! retcode)
        retcode = EXIT_FAILURE;
    va_end (args);
}

/*-----.
| Wrapper around error_at_line. |
`-----*/

void
m4_error_at_line (int status,
                  int errnum, const char *file, int line,
                  const char *format, ...)
{
    va_list args;
    va_start (args, format);
    verror_at_line (status, errnum, line ? file : NULL, line, format, args);
    if (fatal_warnings && ! retcode)
        retcode = EXIT_FAILURE;
    va_end (args);
}

#ifdef SIGBUS
# define SIGBUS SIGILL
#endif

```

```

#ifndef NSIG
# ifndef MAX
#  define MAX(a,b) ((a) < (b) ? (b) : (a))
# endif
# define NSIG (MAX (SIGABRT, MAX (SIGILL, MAX (SIGFPE, \
                                MAX (SIGSEGV, SIGBUS)))) + 1)
#endif

/* Pre-translated messages for program errors. Do not translate in
   the signal handler, since gettext and strsignal are not
   async-signal-safe. */
static const char * volatile program_error_message;
static const char * volatile signal_message[NSIG];

/* Print a nicer message about any programmer errors, then exit. This
   must be aysnc-signal safe, since it is executed as a signal
   handler. If SIGNO is zero,
   this represents a stack overflow; in
   that case, we return to allow c_stack_action to handle things. */
static void M4_GNUC_PURE
fault_handler (int signo)
{
  if (signo)
  {
    /* POSIX states that reading static memory is, in general, not
       async-safe. However, the static variables that we read are
       never modified once this handler is installed, so this
       particular usage is safe. And it seems an oversight that
       POSIX claims strlen is not async-safe. Ignore write
       failures, since we will exit with non-zero status anyway. */
#define WRITE(f, b, l) ignore_value (write (f, b, l))
    WRITE (STDERR_FILENO, program_name, strlen (program_name));
    WRITE (STDERR_FILENO, ": ", 2);
    WRITE (STDERR_FILENO, program_error_message,
          strlen (program_error_message));
    if (signal_message[signo])
    {
      WRITE (STDERR_FILENO, ": ", 2);
      WRITE (STDERR_FILENO, signal_message[signo],
            strlen (signal_message[signo]));
    }
    WRITE (STDERR_FILENO, "\n", 1);
#undef WRITE
    _exit (EXIT_INTERNAL_ERROR);
  }
}

```

```

/*-----
| Print a usage message and exit with STATUS. |
`-----*/

static void
usage (int status)
{
    if (status != EXIT_SUCCESS)
        xfprintf (stderr, "Try `%s --help' for more information.\n", program_name);
    else
    {
        xprintf ("Usage: %s [OPTION]... [FILE]...\n", program_name);
        fputs ("
Process macros in FILEs.  If no FILE or if FILE is `-', standard input
is read.\n
", stdout);
        fputs ("
Mandatory or optional arguments to long options are mandatory or optional
for short options too.\n
\n
Operation modes:\n
    --help            display this help and exit\n
    --version         output version information and exit\n
", stdout);
        xprintf ("
-E, --fatal-warnings
    once: warnings become errors, twice: stop\n
           execution at first error\n
\n
-i, --interactive     unbuffer output, ignore interrupts\n
-P, --prefix-builtins force a `m4_' prefix to all builtins\n
-Q, --quiet, --silent suppress some warnings for builtins\n
    --warn-macro-sequence[=REGEXP]\n
           warn if macro definition matches REGEXP,\n
           default %s\n
", DEFAULT_MACRO_SEQUENCE);
#ifdef ENABLE_CHANGEWORD
        fputs ("
-W, --word-regexp=REGEXP  use REGEXP for macro name syntax\n
", stdout);
#endif
        fputs ("
\n
Preprocessor features:\n
-D, --define=NAME[=VALUE]  define NAME as having VALUE, or empty\n
-I, --include=DIRECTORY    append DIRECTORY to include path\n
-s, --synclines            generate `#line NUM \"FILE\"' lines\n

```

```

-U, --undefine=NAME      undefine NAME\n\
", stdout);
    puts
    ("");
    xprintf (_("\n\
Limits control:\n\
-g, --gnu                override -G to re-enable GNU extensions\n\
-G, --traditional        suppress all GNU extensions\n\
-H, --hashsize=PRIME     set symbol lookup hash table size [509]\n\
-L, --nesting-limit=NUMBER change nesting limit, 0 for unlimited [%d]\n\
"), nesting_limit);
    puts ("");
    fputs ("\n\
Frozen state files:\n\
-F, --freeze-state=FILE  produce a frozen state on FILE at end\n\
-R, --reload-state=FILE  reload a frozen state from FILE at start\n\
", stdout);
    fputs ("\n\
Debugging:\n\
-d, --debug[=FLAGS]      set debug level (no FLAGS implies `aeq')\n\
    --debugfile[=FILE]    redirect debug and trace output to FILE\n\
                          (default stderr, discard if empty string)\n\
-l, --arglength=NUM       restrict macro tracing size\n\
-t, --trace=NAME          trace NAME when it is defined\n\
", stdout);
    fputs
    ("
\n\
FLAGS is any of:\n\
a  show actual arguments\n\
c  show before collect, after collect and after call\n\
e  show expansion\n\
f  say current input file name\n\
i  show changes in input files\n\
l  say current input line number\n\
p  show results of path searches\n\
q  quote values as necessary, with a or e flag\n\
t  trace for all macro calls, not only traceon'ed\n\
x  add a unique macro call id, useful with c flag\n\
V  shorthand for all of the above flags\n\
", stdout);
    fputs ("\n\
If defined, the environment variable `M4PATH' is a colon-separated list\n\
of directories included after any specified by `-I'.\n\
", stdout);
    fputs ("\n\

```



```

\n\
Exit status is 0 for success, 1 for failure, 63 for frozen file version\n\
mismatch, or whatever value was passed to the m4exit macro.\n\
", stdout);
    emit_bug_reporting_address ();
}
exit (status);
}

/*-----.
| Decode options
| and launch execution. |
`-----*/

/* For long options that have no equivalent short option, use a
non-character as a pseudo short option, starting with CHAR_MAX + 1. */
enum
{
    DEBUGFILE_OPTION = CHAR_MAX + 1,    /* no short opt */
    DIVERSIONS_OPTION,                  /* not quite -N, because of message */
    WARN_MACRO_SEQUENCE_OPTION,         /* no short opt */

    HELP_OPTION,                        /* no short opt */
    VERSION_OPTION                      /* no short opt */
};

static const struct option long_options[] =
{
    {"arglength", required_argument, NULL, 'I'},
    {"debug", optional_argument, NULL, 'd'},
    {"define", required_argument, NULL, 'D'},
    {"error-output", required_argument, NULL, 'o'}, /* FIXME: deprecate in 2.0 */
    {"fatal-warnings", no_argument, NULL, 'E'},
    {"freeze-state", required_argument, NULL, 'F'},
    {"gnu", no_argument, NULL, 'g'},
    {"hashsize", required_argument, NULL, 'H'},
    {"include", required_argument, NULL, 'I'},
    {"interactive", no_argument, NULL, 'i'},
    {"nesting-limit", required_argument, NULL, 'L'},
    {"prefix-builtins", no_argument, NULL, 'P'},
    {"quiet", no_argument, NULL, 'Q'},
    {"reload-state", required_argument, NULL, 'R'},
    {"silent", no_argument, NULL, 'Q'},
    {"synclines", no_argument, NULL, 's'},
    {"trace", required_argument, NULL, 't'},
    {"traditional", no_argument, NULL, 'G'},
    {"undefine", required_argument, NULL, 'U'},
#ifdef ENABLE_CHANGEWORD

```

```

{"word-regexp", required_argument, NULL, 'W'},
#endif

{"debugfile", optional_argument, NULL, DEBUGFILE_OPTION},
{"diversions", required_argument, NULL, DIVERSIONS_OPTION},
{"warn-macro-sequence", optional_argument, NULL, WARN_MACRO_SEQUENCE_OPTION},

{"help", no_argument, NULL, HELP_OPTION},
{"version", no_argument, NULL, VERSION_OPTION},

{ NULL, 0, NULL, 0 },
};

/* Process a command line file NAME, and return true only if it was
   stdin. */
static
void
process_file (const char *name)
{
  if (STREQ (name, "-"))
    {
      /* If stdin is a terminal, we want to allow 'm4 - file -'
         to read input from stdin twice, like GNU cat. Besides,
         there is no point closing stdin before wrapped text, to
         minimize bugs in syscmd called from wrapped text. */
      push_file (stdin, "stdin", false);
    }
  else
    {
      char *full_name;
      FILE *fp = m4_path_search (name, &full_name);
      if (fp == NULL)
        {
          error (0, errno, _("cannot open `%s'"), name);
          /* Set the status to EXIT_FAILURE, even though we
             continue to process files after a missing file. */
          retcode = EXIT_FAILURE;
          return;
        }
      push_file (fp, full_name, true);
      free (full_name);
    }
  expand_input ();
}

/* POSIX requires only -D, -U, and -s; and says that the first two
   must be recognized when interspersed with file names. Traditional

```

```

behavior also handles -s between files. Starting OPTSTRING with
'-' forces getopt_long to hand back file names as arguments to opt
'\1', rather than reordering the command line. */
#ifdef ENABLE_CHANGEWORD
#define OPTSTRING "-B:D:EF:GH:I:L:N:PQR:S:T:U:W:d::egil:o:st:"
#else
#define OPTSTRING "-B:D:EF:GH:I:L:N:PQR:S:T:U:d::egil:o:st:"
#endif

int
main (int argc, char *const *argv)
{
    struct sigaction act;
    macro_definition *head;    /* head of deferred argument list */
    macro_definition *tail;
    macro_definition *defn;
    int optchar;               /* option character */

    macro_definition *defines;
    bool interactive = false;
    bool seen_file = false;
    const char *debugfile = NULL;
    const char *frozen_file_to_read = NULL;
    const char *frozen_file_to_write = NULL;
    const char *macro_sequence = "";

    set_program_name (argv[0]);
    retcode = EXIT_SUCCESS;
    atexit (close_stdin);

    include_init ();
    debug_init ();

    /* Stack
overflow and program error handling. Ignore failure to
install a handler, since this is merely for improved output on
crash, and we should never crash ;). We install SIGBUS and
SIGSEGV handlers prior to using the c-stack module; depending on
the platform, c-stack will then override none, SIGSEGV, or both
handlers. */
    program_error_message
    = xasprintf (_("internal error detected; please report this bug to <%s>"),
        PACKAGE_BUGREPORT);
    signal_message[SIGSEGV] = xstrdup (strsignal (SIGSEGV));
    signal_message[SIGABRT] = xstrdup (strsignal (SIGABRT));
    signal_message[SIGILL] = xstrdup (strsignal (SIGILL));
    signal_message[SIGFPE] = xstrdup (strsignal (SIGFPE));
    if (SIGBUS != SIGILL && SIGBUS != SIGSEGV)

```

```

    signal_message[SIGBUS] = xstrdup (strsignal (SIGBUS));
sigemptyset (&act.sa_mask);
/* One-shot - if we fault while handling a fault, we want to revert
   to default signal behavior. */
act.sa_flags = SA_NODEFER
| SA_RESETHAND;
act.sa_handler = fault_handler;
sigaction (SIGSEGV, &act, NULL);
sigaction (SIGABRT, &act, NULL);
sigaction (SIGILL, &act, NULL);
sigaction (SIGFPE, &act, NULL);
sigaction (SIGBUS, &act, NULL);
if (c_stack_action (fault_handler) == 0)
    nesting_limit = 0;

#ifdef DEBUG_STKOVF
/* Make it easier to test our fault handlers. Exporting M4_CRASH=0
   attempts a SIGSEGV, exporting it as 1 attempts an assertion
   failure with a fallback to abort. */
{
    char *crash = getenv ("M4_CRASH");
    if (crash)
    {
        if (!strtol (crash, NULL, 10))
            ++*(int *) 8;
        assert (false);
        abort ();
    }
}
#endif /* DEBUG_STKOVF */

/* First, we decode the arguments, to size up tables and stuff. */
head = tail = NULL;

while ((optchar = getopt_long (argc, (char **) argv, OPTSTRING,
                             long_options, NULL)) != -1)
switch (optchar)
{
    default:
        usage (EXIT_FAILURE);

    case 'B':
    case 'S':
    case 'T':
        /* Compatibility junk: options that other implementations
           support, but which we ignore as no-ops and don't list in
           --help. */
        error (0, 0, _("warning: `m4 -%c' may be removed in a future release"),

```

```

        optchar);
    break;

case 'N':
case DIVERSIONS_OPTION:
    /* -N became an obsolete no-op in 1.4.x. */
    error (0, 0, _("warning: `m4 %s' is deprecated"),
        optchar == 'N' ? "-N" : "--diversions");
    break;

case 'D':
case 'U':
case 's':
case 't':
case '\1':
case DEBUGFILE_OPTION:
    /* Arguments that cannot be handled until later are accumulated. */

    defn = (macro_definition *) xmalloc (sizeof (macro_definition));
    defn->code = optchar;
    defn->arg = optarg;
    defn->next = NULL;

    if (head == NULL)

head = defn;
    else
        tail->next = defn;
    tail = defn;

    break;

case 'E':
    if (! fatal_warnings)
        fatal_warnings = true;
    else
        warning_status = EXIT_FAILURE;
    break;

case 'F':
    frozen_file_to_write = optarg;
    break;

case 'G':
    no_gnu_extensions = 1;
    break;

case 'H':

```

```

hash_table_size = strtol (optarg, NULL, 10);
if (hash_table_size == 0)
    hash_table_size = HASHMAX;
break;

case 'I':
    add_include_directory (optarg);
break;

case 'L':
    nesting_limit = strtol (optarg, NULL, 10);
break;

case 'P':
    prefix_all_builtins = 1;
break;

case 'Q':
    suppress_warnings = 1;
break;

case 'R':
    frozen_file_to_read = optarg;
break;

#ifdef ENABLE_CHANGEWORD
    case 'W':
        user_word_regexp
= optarg;
        break;
#endif

case 'd':
    debug_level = debug_decode (optarg);
    if (debug_level < 0)
    {
        error (0, 0, _("bad debug flags: `%s'"), optarg);
        debug_level = 0;
    }
break;

case 'e':
    error (0, 0, _("warning: `m4 -e' is deprecated, use `-i' instead"));
    /* fall through */
case 'i':
    interactive = true;
break;

```

```

case 'g':
    no_gnu_extensions = 0;
    break;

case 'l':
    max_debug_argument_length = strtol (optarg, NULL, 10);
    if (max_debug_argument_length <= 0)
        max_debug_argument_length = 0;
    break;

case 'o':
    /* -o/--error-output are deprecated synonyms of --debugfile,
       but don't issue a deprecation warning until autoconf 2.61
       or later is more widely established, as such a warning
       would interfere with all earlier versions of autoconf.
    */
    /* Don't call debug_set_output here, as it has side effects. */
    debugfile = optarg;
    break;

case WARN_MACRO_SEQUENCE_OPTION:
    /* Don't call set_macro_sequence here, as it can exit.
       --warn-macro-sequence sets optarg to NULL (which uses the
       default regexp); --warn-macro-sequence= sets optarg to ""
       (which disables these warnings). */
    macro_sequence = optarg;
    break;

case VERSION_OPTION:
    version_etc (stdout, PACKAGE, PACKAGE_NAME, VERSION, AUTHORS, NULL);
    exit (EXIT_SUCCESS);
    break;

case HELP_OPTION:
    usage (EXIT_SUCCESS);
    break;
}

defines = head;

/* Do the basic initializations. */
if (debugfile && !debug_set_output (debugfile))
    M4ERROR ((warning_status, errno, "cannot set debug file `%s'", debugfile));

input_init ();
output_init ();
symtab_init ();
set_macro_sequence (macro_sequence);

```

```

include_env_init ();

if (frozen_file_to_read)
    reload_frozen_state (frozen_file_to_read);
else
    builtin_init ();

/* Interactive mode means unbuffered output, and interrupts ignored. */

if (interactive)
{
    signal (SIGINT, SIG_IGN);
    setbuf (stdout, (char *) NULL);
}

/* Handle deferred command line macro definitions. Must come after
   initialization of the symbol table. */

while (defines != NULL)
{
    macro_definition *next;
    symbol *sym;

    switch (defines->code)
    {
        case 'D':
        {
            /* defines->arg is read-only, so we need a copy. */
            char *macro_name = xstrdup (defines->arg);
            char *macro_value = strchr (macro_name, '=');
            if (macro_value)
                *macro_value++ = '\0';
            define_user_macro (macro_name, macro_value, SYMBOL_INSERT);
            free (macro_name);
        }
        break;

        case
        'U':
            lookup_symbol (defines->arg, SYMBOL_DELETE);
            break;

        case 't':
            sym = lookup_symbol (defines->arg, SYMBOL_INSERT);
            SYMBOL_TRACED (sym) = true;
            break;

        case 's':

```



```

    sync_output = 1;
    break;

case '\1':
    seen_file = true;
    process_file (defines->arg);
    break;

case DEBUGFILE_OPTION:
    if (!debug_set_output (defines->arg))
        M4ERROR ((warning_status, errno, "cannot set debug file `%s",
                    debugfile ? debugfile : _("stderr")));
    break;

default:
    M4ERROR ((0, 0, "INTERNAL ERROR: bad code in deferred arguments"));
    abort ();
}

next = defines->next;
free (defines);
defines = next;
}

/* Handle remaining input files. Each file is pushed on the input,
   and the input read. Wrapup text is handled separately later. */

if (optind == argc && !seen_file)
    process_file ("-");
else
    for (; optind < argc; optind++)
        process_file (argv[optind]);

/* Now handle wrapup text. */

while (pop_wrapup ())
    expand_input ();

/* Change debug stream back to stderr, to force flushing the debug
   stream and detect any errors it might have encountered. The
   three standard streams are closed by close_stdin. */
debug_set_output (NULL);

if (frozen_file_to_write)
    produce_frozen_state (frozen_file_to_write);
else
    {
        make_diversion (0);
    }

```

```
undivert_all ();  
}  
output_exit ();  
free_macro_sequence ();  
exit (retcode);  
}
```

1.129 ebttables 2.0.10-4-r4

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Version 2, June 1991

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1.130 iperf2 2.0.10-r0

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Iperf performance test

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Last modified: Jan 5, 2004

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1.131 quota 4.04-r0

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1.132 coreutils 8.30-r0

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```
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```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.139 tzdata 2019a-r0

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1.140 libxslt 1.1.32-r0

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1.141 tar 1.30-r0

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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.
* http://www.hypermall.com/
* 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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```
static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
        || strcmp(license, "Dual MIT/GPL") == 0
        || strcmp(license, "Dual MPL/GPL") == 0);
}
```

#endif

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- Kirk Lapray <kirk.lapray@gmail.com>

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1.146 lvm2 2.02.180-r0

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*/

/*
* Coverity usage:
*
* translate model into xml
* cov-make-library -of coverity_model.xml coverity_model.c
*
* compile (using outdir 'cov'):
* cov-build --dir=cov make CC=gcc
*
* analyze (agressively, using 'cov')
* cov-analyze --dir cov --wait-for-license --hfa --concurrency --enable-fnptr --enable-constraint-fpp --security --all --
aggressiveness-level=high --field-offset-escape --user-model-file=coverity/coverity_model.xml
*
* generate html output (to
'html' from 'cov'):
* cov-format-errors --dir cov --html-output html
*/

struct lv_segment;
struct logical_volume;

struct lv_segment *first_seg(const struct logical_volume *lv)
{
    return ((struct lv_segment **)lv)[0];
}

struct lv_segment *last_seg(const struct logical_volume *lv)
{
    return ((struct lv_segment **)lv)[0];
}

const char *find_config_tree_str(struct cmd_context *cmd, int id, struct profile *profile)
{
    return "STRING";
}

struct logical_volume *origin_from_cow(const struct logical_volume *lv)
{
    if (lv)
        return lv;
}

```

```

__coverity_panic__();
}

/* simple_memccpy() from glibc */
void *memccpy(void *dest, const void *src, int c, size_t n)
{
    const char *s = src;
    char *d = dest;

    while (n-- > 0)
        if ((*d++ = *s++) == (char) c)
            return d;

    return 0;
}

/*
 * 2 lines bellow needs to be placed in coverity/config/user_nodefs.h
 * Not sure about any other way.
 * Without them, coverity shows warning since x86 system header files
 * are using inline assembly to reset fdset
 */
#ifndef FD_ZERO model_FD_ZERO
void model_FD_ZERO(void *fdset);

void model_FD_ZERO(void *fdset)
{
    unsigned i;

    for (i = 0; i < 1024 / 8 / sizeof(long); ++i)
        ((long*)fdset)[i] = 0;
}

/* Resent Coverity reports quite weird errors... */
int *__errno_location(void)
{
}

const unsigned short **__ctype_b_loc (void)
{
}

/*
 * Added extra pointer check to not need these models,
 * for now just keep them in file
 */

```

```

/*
struct cmd_context;
struct profile;

const char *find_config_tree_str(struct cmd_context *cmd, int id, struct profile *profile)
{
    return "text";
}

const char *find_config_tree_str_allow_empty(struct cmd_context *cmd, int id, struct profile *profile)
{
    return "text";
}
*/

/*
* Until fixed coverity case# 00531860:
* A FORWARD_NULL false positive on a recursive function call
*
* model also these functions:
*/
/*
const struct dm_config_node;
const
struct dm_config_node *find_config_tree_array(struct cmd_context *cmd, int id, struct profile *profile)
{
    const struct dm_config_node *cn;

    return cn;
}

const struct dm_config_node *find_config_tree_node(struct cmd_context *cmd, int id, struct profile *profile)
{
    const struct dm_config_node *cn;

    return cn;
}

int find_config_tree_bool(struct cmd_context *cmd, int id, struct profile *profile)
{
    int b;

    return b;
}
*/
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```

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1.147 mdadm 4.0-r0

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Version 2, June 1991

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/*

* mdadm - manage Linux "md" devices aka RAID arrays.

*

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*

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*

* Author: Neil Brown

```

*   Email: <neilb@suse.de>
*
*   Additions for bitmap and write-behind RAID options,
Copyright (C) 2003-2004,
*   Paul Clements, SteelEye Technology, Inc.
*/

```

```

#include "mdadm.h"
#include "md_p.h"
#include <ctype.h>

```

```

static int scan_assemble(struct supertype *ss,
    struct context *c,
    struct mddev_ident *ident);
static int misc_scan(char devmode, struct context *c);
static int stop_scan(int verbose);
static int misc_list(struct mddev_dev *devlist,
    struct mddev_ident *ident,
    char *dump_directory,
    struct supertype *ss, struct context *c);
const char Name[] = "mdadm";

```

```

int main(int argc, char *argv[])
{
    int mode = 0;
    int opt;
    int option_index;
    int rv;
    int i;

```

```

    unsigned long long array_size = 0;
    unsigned long long data_offset = INVALID_SECTORS;
    struct mddev_ident ident;
    char *configfile = NULL;
    int devmode = 0;
    int bitmap_fd = -1;
    struct mddev_dev *devlist = NULL;
    struct mddev_dev **devlistend = & devlist;
    struct mddev_dev *dv;
    int devs_found = 0;
    char *symlinks = NULL;
    int grow_continue
    = 0;
    /* autof indicates whether and how to create device node.
    * bottom 3 bits are style. Rest (when shifted) are number of parts
    * 0 - unset
    * 1 - don't create (no)
    * 2 - if is_standard, then create (yes)

```

```

* 3 - create as 'md' - reject is_standard mdp (md)
* 4 - create as 'mdp' - reject is_standard md (mdp)
* 5 - default to md if not is_standard (md in config file)
* 6 - default to mdp if not is_standard (part, or mdp in config file)
*/
struct context c = {
    .require_homehost = 1,
};
struct shape s = {
    .journaldisks = 0,
    .level = UnSet,
    .layout = UnSet,
    .bitmap_chunk = UnSet,
};

char sys_hostname[256];
char *mailaddr = NULL;
char *program = NULL;
int increments = 20;
int daemonise = 0;
char *pidfile = NULL;
int oneshot = 0;
int spare_sharing = 1;
struct supertype *ss = NULL;
enum flag_mode writemostly = FlagDefault;
enum flag_mode failfast = FlagDefault;
char *shortopt = short_options;
int dosyslog
= 0;
int rebuild_map = 0;
char *remove_path = NULL;
char *udev_filename = NULL;
char *dump_directory = NULL;

int print_help = 0;
FILE *outf;

int mdfd = -1;

srandom(time(0) ^ getpid());

ident.uuid_set=0;
ident.level = UnSet;
ident.raid_disks = UnSet;
ident.super_minor= UnSet;
ident.devices=0;
ident.spare_group = NULL;
ident.autof = 0;

```

```

ident.st = NULL;
ident.bitmap_fd = -1;
ident.bitmap_file = NULL;
ident.name[0] = 0;
ident.container = NULL;
ident.member = NULL;

while ((option_index = -1) ,
      (opt=getopt_long(argc, argv,
                      shortopt, long_options,
                      &option_index)) != -1) {
int newmode = mode;
/* firstly, some mode-independent options */
switch(opt) {
case HelpOptions:
print_help = 2;
continue;
case 'h':
print_help = 1;
continue;

case 'V':
fputs(Version, stderr);
exit(0);

case 'v': c.verbose++;
continue;

case 'q': c.verbose--;
continue;

case 'b':
if
(mode == ASSEMBLE || mode == BUILD ||
 mode == CREATE || mode == GROW ||
 mode == INCREMENTAL || mode == MANAGE)
break; /* b means bitmap */
case Brief:
c.brief = 1;
continue;

case 'Y': c.export++;
continue;

case HomeHost:
if (strcasecmp(optarg, "<ignore>") == 0)
c.require_homehost = 0;
else

```



```

    c.homehost = optarg;
    continue;

case OffRootOpt:
    /* Silently ignore old option */
    continue;

case Prefer:
    if (c.prefer)
        free(c.prefer);
    if (asprintf(&c.prefer, "%s/", optarg) <= 0)
        c.prefer = NULL;
    continue;

case ':':
case '?':
    fputs(Usage, stderr);
    exit(2);
}
/* second, figure out the mode.
 * Some options force the mode. Others
 * set the mode if it isn't already
 */

switch(opt) {
case ManageOpt:
    newmode = MANAGE;
    shortopt = short_bitmap_options;
    break;
case 'a':
case Add:
case AddSpare:
case AddJournal:
case 'r':
case Remove:
case
Replace:
case With:
case 'f':
case Fail:
case ReAdd: /* re-add */
case ClusterConfirm:
    if (!mode) {
        newmode = MANAGE;
        shortopt = short_bitmap_options;
    }
    break;

```

```

case 'A': newmode = ASSEMBLE;
shortopt = short_bitmap_auto_options;
break;
case 'B': newmode = BUILD;
shortopt = short_bitmap_auto_options;
break;
case 'C': newmode = CREATE;
shortopt = short_bitmap_auto_options;
break;
case 'F': newmode = MONITOR;
break;
case 'G': newmode = GROW;
shortopt = short_bitmap_options;
break;
case 'I': newmode = INCREMENTAL;
shortopt = short_bitmap_auto_options;
break;
case AutoDetect:
newmode = AUTODETECT;
break;

case MiscOpt:
case 'D':
case 'E':
case 'X':
case 'Q':
case ExamineBB:
case Dump:
case Restore:
case Action:
newmode = MISC;
break;

case 'R':
case 'S':
case 'o':
case 'w':
case 'W':
case WaitOpt:
case Waitclean:
case
DetailPlatform:
case KillSubarray:
case UpdateSubarray:
case UdevRules:
case KillOpt:
if (!mode)
newmode = MISC;

```

```

break;

case NoSharing:
    newmode = MONITOR;
    break;
}
if (mode && newmode == mode) {
    /* everybody happy ! */
} else if (mode && newmode != mode) {
    /* not allowed.. */
    pr_err("");
    if (option_index >= 0)
        fprintf(stderr, "--%s", long_options[option_index].name);
    else
        fprintf(stderr, "-%c", opt);
    fprintf(stderr, " would set mdadm mode to \"%s\", but it is already set to \"%s\".\n",
        map_num(modes, newmode),
        map_num(modes, mode));
    exit(2);
} else if (!mode && newmode) {
    mode = newmode;
    if (mode == MISC && devs_found) {
        pr_err("No action given for %s in --misc mode\n",
            devlist->devname);
        cont_err("Action options must come before device names\n");
        exit(2);
    }
} else {
    /* special case of -c --help */
    if ((opt == 'c' || opt == ConfigFile) &&

        (strncmp(optarg, "--h", 3) == 0 ||
         strncmp(optarg, "-h", 2) == 0)) {
        fputs(Help_config, stdout);
        exit(0);
    }

    /* If first option is a device, don't force the mode yet */
    if (opt == 1) {
        if (devs_found == 0) {
            dv = xmalloc(sizeof(*dv));
            dv->devname = optarg;
            dv->disposition = devmode;
            dv->writemostly = writemostly;
            dv->failfast = failfast;
            dv->used = 0;
            dv->next = NULL;
            *devlistend = dv;

```

```

devlistend = &dv->next;

devs_found++;
continue;
}
/* No mode yet, and this is the second device ... */
pr_err("An option must be given to set the mode before a second device\n"
      "      (%s) is listed\n", optarg);
exit(2);
}
if (option_index >= 0)
    pr_err("--%s", long_options[option_index].name);
else
    pr_err("-%c", opt);
fprintf(stderr, " does not set the mode, and so cannot be the first option.\n");
exit(2);
}

/* if we just set the
mode, then done */
switch(opt) {
case ManageOpt:
case MiscOpt:
case 'A':
case 'B':
case 'C':
case 'F':
case 'G':
case 'I':
case AutoDetect:
    continue;
}
if (opt == 1) {
    /* an undecorated option - must be a device name.
    */

    if (devs_found > 0 && devmode == DetailPlatform) {
        pr_err("controller may only be specified once. %s ignored\n",
              optarg);
        continue;
    }

    if (devs_found > 0 && mode == MANAGE && !devmode) {
        pr_err("Must give one of -a/-r/-f for subsequent devices at %s\n", optarg);
        exit(2);
    }

    if (devs_found > 0 && mode == GROW && !devmode) {
        pr_err("Must give -a/--add for devices to add: %s\n", optarg);
    }
}

```

```

    exit(2);
}
dv = xmalloc(sizeof(*dv));
dv->devname = optarg;
dv->disposition = devmode;
dv->writemostly = writemostly;
dv->failfast = failfast;
dv->used = 0;
dv->next = NULL;
*devlistend = dv;
devlistend = &dv->next;

devs_found++;
continue;
}

/*
We've got a mode, and opt is now something else which
* could depend on the mode */
#define O(a,b) ((a<<16)|b)
switch (O(mode,opt)) {
case O(GROW,'c'):
case O(GROW,ChunkSize):
case O(CREATE,'c'):
case O(CREATE,ChunkSize):
case O(BUILD,'c'): /* chunk or rounding */
case O(BUILD,ChunkSize): /* chunk or rounding */
if (s.chunk) {
    pr_err("chunk/rounding may only be specified once. Second value is %s.\n", optarg);
    exit(2);
}
s.chunk = parse_size(optarg);
if (s.chunk == INVALID_SECTORS ||
    s.chunk < 8 || (s.chunk&1)) {
    pr_err("invalid chunk/rounding value: %s\n",
        optarg);
    exit(2);
}
/* Convert sectors to K */
s.chunk /= 2;
continue;

case O(INCREMENTAL, 'e'):
case O(CREATE,'e'):
case O(ASSEMBLE,'e'):
case O(MISC,'e'): /* set metadata (superblock) information */
if (ss) {
    pr_err("metadata information already given\n");

```

```

    exit(2);
}
for(i=0; !ss && superlist[i];
i++)
    ss = superlist[i]->match_metadata_desc(optarg);

if (!ss) {
    pr_err("unrecognised metadata identifier: %s\n", optarg);
    exit(2);
}
continue;

case O(MANAGE,'W'):
case O(MANAGE,WriteMostly):
case O(BUILD,'W'):
case O(BUILD,WriteMostly):
case O(CREATE,'W'):
case O(CREATE,WriteMostly):
    /* set write-mostly for following devices */
    writemostly = FlagSet;
    continue;

case O(MANAGE,'w'):
    /* clear write-mostly for following devices */
    writemostly = FlagClear;
    continue;

case O(MANAGE,FailFast):
case O(CREATE,FailFast):
    failfast = FlagSet;
    continue;
case O(MANAGE,NoFailFast):
    failfast = FlagClear;
    continue;

case O(GROW,'z'):
case O(CREATE,'z'):
case O(BUILD,'z'): /* size */
    if (s.size > 0) {
        pr_err("size may only be specified once. Second value is %s.\n", optarg);
        exit(2);
    }
    if (strcmp(optarg, "max") == 0)
        s.size = MAX_SIZE;
    else {
        s.size
= parse_size(optarg);
        if (s.size == INVALID_SECTORS || s.size < 8) {

```

```

pr_err("invalid size: %s\n", optarg);
exit(2);
}
/* convert sectors to K */
s.size /= 2;
}
continue;

case O(GROW,'Z'): /* array size */
if (array_size > 0) {
pr_err("array-size may only be specified once. Second value is %s.\n", optarg);
exit(2);
}
if (strcmp(optarg, "max") == 0)
array_size = MAX_SIZE;
else {
array_size = parse_size(optarg);
if (array_size == 0 ||
array_size == INVALID_SECTORS) {
pr_err("invalid array size: %s\n",
optarg);
exit(2);
}
}
continue;

case O(CREATE,DataOffset):
case O(GROW,DataOffset):
if (data_offset != INVALID_SECTORS) {
pr_err("data-offset may only be specified one. Second value is %s.\n", optarg);
exit(2);
}
if (mode == CREATE && strcmp(optarg, "variable") == 0)
data_offset = VARIABLE_OFFSET;
else
data_offset = parse_size(optarg);
if
(data_offset == INVALID_SECTORS) {
pr_err("invalid data-offset: %s\n",
optarg);
exit(2);
}
continue;

case O(GROW,'l'):
case O(CREATE,'l'):
case O(BUILD,'l'): /* set raid level*/
if (s.level != UnSet) {

```

```

pr_err("raid level may only be set once. Second value is %s.\n", optarg);
exit(2);
}
s.level = map_name(pers, optarg);
if (s.level == UnSet) {
pr_err("invalid raid level: %s\n",
    optarg);
exit(2);
}
if (s.level != 0 && s.level != LEVEL_LINEAR &&
    s.level != 1 && s.level != LEVEL_MULTIPATH &&
    s.level != LEVEL_FAULTY && s.level != 10 &&
    mode == BUILD) {
pr_err("Raid level %s not permitted with --build.\n",
    optarg);
exit(2);
}
if (s.sparedisks > 0 && s.level < 1 && s.level >= -1) {
pr_err("raid level %s is incompatible with spare-devices setting.\n",
    optarg);
exit(2);
}
ident.level = s.level;
continue;

case
O(GROW, 'p'): /* new layout */
case O(GROW, Layout):
if (s.layout_str) {
pr_err("layout may only be sent once. Second value was %s\n", optarg);
exit(2);
}
s.layout_str = optarg;
/* 'Grow' will parse the value */
continue;

case O(CREATE, 'p'): /* raid5 layout */
case O(CREATE, Layout):
case O(BUILD, 'p'): /* faulty layout */
case O(BUILD, Layout):
if (s.layout != UnSet) {
pr_err("layout may only be sent once. Second value was %s\n", optarg);
exit(2);
}
switch(s.level) {
default:
pr_err("layout not meaningful for %s arrays.\n",
    map_num(pers, s.level));

```



```

exit(2);
case UnSet:
pr_err("raid level must be given before layout.\n");
exit(2);

case 5:
s.layout = map_name(r5layout, optarg);
if (s.layout==UnSet) {
pr_err("layout %s not understood for raid5.\n",
optarg);
exit(2);
}
break;
case 6:
s.layout = map_name(r6layout, optarg);
if (s.layout==UnSet)
{
pr_err("layout %s not understood for raid6.\n",
optarg);
exit(2);
}
break;

case 10:
s.layout = parse_layout_10(optarg);
if (s.layout < 0) {
pr_err("layout for raid10 must be 'nNN', 'oNN' or 'fNN' where NN is a number, not %s\n", optarg);
exit(2);
}
break;
case LEVEL_FAULTY:
/* Faulty
* modeNNN
*/
s.layout = parse_layout_faulty(optarg);
if (s.layout == -1) {
pr_err("layout %s not understood for faulty.\n",
optarg);
exit(2);
}
break;
}
continue;

case O(CREATE,AssumeClean):
case O(BUILD,AssumeClean): /* assume clean */
case O(GROW,AssumeClean):
s.assume_clean = 1;

```

```

continue;

case O(GROW,'n'):
case O(CREATE,'n'):
case O(BUILD,'n'): /* number of raid disks */
if (s.raiddisks) {
pr_err("raid-devices set twice: %d and %s\n",
s.raiddisks, optarg);
exit(2);
}
s.raiddisks = parse_num(optarg);
if
(s.raiddisks <= 0) {
pr_err("invalid number of raid devices: %s\n",
optarg);
exit(2);
}
ident.raid_disks = s.raiddisks;
continue;
case O(ASSEMBLE, Nodes):
case O(GROW, Nodes):
case O(CREATE, Nodes):
c.nodes = parse_num(optarg);
if (c.nodes <= 0) {
pr_err("invalid number for the number of cluster nodes: %s\n",
optarg);
exit(2);
}
continue;
case O(CREATE, ClusterName):
case O(ASSEMBLE, ClusterName):
c.homecluster = optarg;
if (strlen(c.homecluster) > 64) {
pr_err("Cluster name too big.\n");
exit(ERANGE);
}
continue;
case O(CREATE,'x'): /* number of spare (eXtra) disks */
if (s.sparedisks) {
pr_err("spare-devices set twice: %d and %s\n",
s.sparedisks, optarg);
exit(2);
}
if (s.level != UnSet && s.level <= 0 && s.level >= -1) {
pr_err("spare-devices setting is incompatible with raid level %d\n",
s.level);
exit(2);
}

```

```

s.sparedisks
= parse_num(optarg);
if (s.sparedisks < 0) {
    pr_err("invalid number of spare-devices: %s\n",
        optarg);
    exit(2);
}
continue;

case O(CREATE,'a'):
case O(CREATE,Auto):
case O(BUILD,'a'):
case O(BUILD,Auto):
case O(INCREMENTAL,'a'):
case O(INCREMENTAL,Auto):
case O(ASSEMBLE,'a'):
case O(ASSEMBLE,Auto): /* auto-creation of device node */
    c.autof = parse_auto(optarg, "--auto flag", 0);
    continue;

case O(CREATE,Symlinks):
case O(BUILD,Symlinks):
case O(ASSEMBLE,Symlinks): /* auto creation of symlinks in /dev to /dev/md */
    symlinks = optarg;
    continue;

case O(BUILD,'f'): /* force honouring '-n 1' */
case O(BUILD,Force): /* force honouring '-n 1' */
case O(GROW,'f'): /* ditto */
case O(GROW,Force): /* ditto */
case O(CREATE,'f'): /* force honouring of device list */
case O(CREATE,Force): /* force honouring of device list */
case O(ASSEMBLE,'f'): /* force assembly */
case O(ASSEMBLE,Force):
/* force assembly */
case O(MISC,'f'): /* force zero */
case O(MISC,Force): /* force zero */
case O(MANAGE,Force): /* add device which is too large */
    c.force=1;
    continue;
/* now for the Assemble options */
case O(ASSEMBLE, FreezeReshape): /* Freeze reshape during
    * initrd phase */
case O(INCREMENTAL, FreezeReshape):
    c.freeze_reshape = 1;
    continue;
case O(CREATE,'u'): /* uuid of array */
case O(ASSEMBLE,'u'): /* uuid of array */

```

```

if (ident.uuid_set) {
    pr_err("uuid cannot be set twice. Second value %s.\n", optarg);
    exit(2);
}
if (parse_uuid(optarg, ident.uuid))
    ident.uuid_set = 1;
else {
    pr_err("Bad uuid: %s\n", optarg);
    exit(2);
}
continue;

case O(CREATE,'N'):
case O(ASSEMBLE,'N'):
case O(MISC,'N'):
    if (ident.name[0]) {
        pr_err("name cannot be set twice. Second value %s.\n", optarg);
        exit(2);
    }
    if (mode == MISC && !c.subarray) {
        pr_err("-N/--name
only valid with --update-subarray in misc mode\n");
        exit(2);
    }
    if (strlen(optarg) > 32) {
        pr_err("name '%s' is too long, 32 chars max.\n",
            optarg);
        exit(2);
    }
    strcpy(ident.name, optarg);
    continue;

case O(ASSEMBLE,'m'): /* super-minor for array */
case O(ASSEMBLE,SuperMinor):
    if (ident.super_minor != UnSet) {
        pr_err("super-minor cannot be set twice. Second value: %s.\n", optarg);
        exit(2);
    }
    if (strcmp(optarg, "dev") == 0)
        ident.super_minor = -2;
    else {
        ident.super_minor = parse_num(optarg);
        if (ident.super_minor < 0) {
            pr_err("Bad super-minor number: %s.\n", optarg);
            exit(2);
        }
    }
    continue;

```

```

case O(ASSEMBLE,'o'):
case O(MANAGE,'o'):
case O(CREATE,'o'):
    c.readonly = 1;
    continue;

case O(ASSEMBLE,'U'): /* update the superblock */
case O(MISC,'U'):
    if (c.update) {
        pr_err("Can only update one aspect of superblock, both %s and %s given.\n",
            c.update,
optarg);
        exit(2);
    }
    if (mode == MISC && !c.subarray) {
        pr_err("Only subarrays can be updated in misc mode\n");
        exit(2);
    }
    c.update = optarg;
    if (strcmp(c.update, "sparc2.2") == 0)
        continue;
    if (strcmp(c.update, "super-minor") == 0)
        continue;
    if (strcmp(c.update, "summaries") == 0)
        continue;
    if (strcmp(c.update, "resync") == 0)
        continue;
    if (strcmp(c.update, "uuid") == 0)
        continue;
    if (strcmp(c.update, "name") == 0)
        continue;
    if (strcmp(c.update, "homehost") == 0)
        continue;
    if (strcmp(c.update, "home-cluster") == 0)
        continue;
    if (strcmp(c.update, "nodes") == 0)
        continue;
    if (strcmp(c.update, "devicesize") == 0)
        continue;
    if (strcmp(c.update, "no-bitmap") == 0)
        continue;
    if (strcmp(c.update, "bbl") == 0)
        continue;
    if (strcmp(c.update, "no-bbl") == 0)
        continue;
    if (strcmp(c.update, "force-no-bbl") == 0)
        continue;

```

```

if
(strcmp(c.update, "metadata") == 0)
    continue;
if (strcmp(c.update, "revert-reshape") == 0)
    continue;
if (strcmp(c.update, "byteorder")==0) {
    if (ss) {
        pr_err("must not set metadata type with --update=byteorder.\n");
        exit(2);
    }
    for(i=0; !ss && superlist[i]; i++)
        ss = superlist[i]->match_metadata_desc(
            "0.swap");
    if (!ss) {
        pr_err("INTERNAL ERROR cannot find 0.swap\n");
        exit(2);
    }

    continue;
}
if (strcmp(c.update, "?") == 0 ||
    strcmp(c.update, "help") == 0) {
    outf = stdout;
    fprintf(outf, "%s: ", Name);
} else {
    outf = stderr;
    fprintf(outf,
        "%s: '--update=%s' is invalid. ",
        Name, c.update);
}
fprintf(outf, "Valid --update options are:\n"
" 'sparc2.2', 'super-minor', 'uuid', 'name', 'nodes', 'resync',\n"
" 'summaries', 'homehost', 'home-cluster', 'byteorder', 'devicesize',\n"
" 'no-bitmap', 'metadata', 'revert-reshape'\n"
"
" 'bbl', 'no-bbl', 'force-no-bbl'\n"
");
exit(outf == stdout ? 0 : 2);

case O(MANAGE, 'U'):
/* update=devicesize is allowed with --re-add */
if (devmode != 'A') {
    pr_err("--update in Manage mode only allowed with --re-add.\n");
    exit(1);
}
if (c.update) {
    pr_err("Can only update one aspect of superblock, both %s and %s given.\n",
        c.update, optarg);
}

```

```

    exit(2);
}
c.update = optarg;
if (strcmp(c.update, "devicesize") != 0 &&
    strcmp(c.update, "bbl") != 0 &&
    strcmp(c.update, "force-no-bbl") != 0 &&
    strcmp(c.update, "no-bbl") != 0) {
    pr_err("only 'devicesize', 'bbl', 'no-bbl', and 'force-no-bbl' can be updated with --re-add\n");
    exit(2);
}
continue;

case O(INCREMENTAL,NoDegraded):
    pr_err("--no-degraded is deprecated in Incremental mode\n");
case O(ASSEMBLE,NoDegraded): /* --no-degraded */
    c.runstop = -1; /* --stop isn't allowed for --assemble,
        * so we overload
slightly */
    continue;

case O(ASSEMBLE,'c'):
case O(ASSEMBLE,ConfigFile):
case O(INCREMENTAL, 'c'):
case O(INCREMENTAL, ConfigFile):
case O(MISC, 'c'):
case O(MISC, ConfigFile):
case O(MONITOR,'c'):
case O(MONITOR,ConfigFile):
case O(CREATE,ConfigFile):
    if (configfile) {
        pr_err("configfile cannot be set twice. Second value is %s.\n", optarg);
        exit(2);
    }
    configfile = optarg;
    set_confdir(configfile);
    /* FIXME possibly check that config file exists. Even parse it */
    continue;
case O(ASSEMBLE,'s'): /* scan */
case O(MISC,'s'):
case O(MONITOR,'s'):
case O(INCREMENTAL,'s'):
    c.scan = 1;
    continue;

case O(MONITOR,'m'): /* mail address */
case O(MONITOR,EMail):
    if (mailaddr)
        pr_err("only specify one mailaddress. %s ignored.\n",

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    optarg);
else
    mailaddr = optarg;
continue;

case O(MONITOR,'p'): /* alert program */
case O(MONITOR,ProgramOpt): /* alert program */
    if
(program)
        pr_err("only specify one alter program. %s ignored.\n",
            optarg);
    else
        program = optarg;
    continue;

case O(MONITOR,'r'): /* rebuild increments */
case O(MONITOR,Increment):
    increments = atoi(optarg);
    if (increments > 99 || increments < 1) {
        pr_err("please specify positive integer between 1 and 99 as rebuild increments.\n");
        exit(2);
    }
    continue;

case O(MONITOR,'d'): /* delay in seconds */
case O(GROW, 'd'):
case O(BUILD,'d'): /* delay for bitmap updates */
case O(CREATE,'d'):
    if (c.delay)
        pr_err("only specify delay once. %s ignored.\n",
            optarg);
    else {
        c.delay = parse_num(optarg);
        if (c.delay < 1) {
            pr_err("invalid delay: %s\n",
                optarg);
            exit(2);
        }
    }
    continue;
case O(MONITOR,'f'): /* daemonise */
case O(MONITOR,Fork):
    daemonise = 1;
    continue;
case O(MONITOR,'i'): /* pid */
    if (pidfile)
        pr_err("only specify one pid file.

```



```

%s ignored.\n",
    optarg);
else
    pidfile = optarg;
continue;
case O(MONITOR,'1'): /* oneshot */
    oneshot = 1;
    spare_sharing = 0;
    continue;
case O(MONITOR,'t'): /* test */
    c.test = 1;
    continue;
case O(MONITOR,'y'): /* log messages to syslog */
    openlog("mdadm", LOG_PID, SYSLOG_FACILITY);
    dosyslog = 1;
    continue;
case O(MONITOR, NoSharing):
    spare_sharing = 0;
    continue;

/* now the general management options. Some are applicable
 * to other modes. None have arguments.
 */
case O(GROW,'a'):
case O(GROW,Add):
case O(MANAGE,'a'):
case O(MANAGE,Add): /* add a drive */
    devmode = 'a';
    continue;
case O(MANAGE,AddSpare): /* add drive - never re-add */
    devmode = 'S';
    continue;
case O(MANAGE,AddJournal): /* add journal */
    if (s.journaldisks && (s.level < 4 || s.level > 6)) {
        pr_err("--add-journal is only supported for RAID level 4/5/6.\n");
        exit(2);
    }
    devmode =
'j';
    continue;
case O(MANAGE,ReAdd):
    devmode = 'A';
    continue;
case O(MANAGE,'r'): /* remove a drive */
case O(MANAGE,Remove):
    devmode = 'r';
    continue;
case O(MANAGE,'f'): /* set faulty */

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case O(MANAGE,Fail):
case O(INCREMENTAL,'f'):
case O(INCREMENTAL,Remove):
case O(INCREMENTAL,Fail): /* r for incremental is taken, use f
    * even though we will both fail and
    * remove the device */
devmode = 'f';
continue;
case O(MANAGE, ClusterConfirm):
devmode = 'c';
continue;
case O(MANAGE,Replace):
/* Mark these devices for replacement */
devmode = 'R';
continue;
case O(MANAGE,With):
/* These are the replacements to use */
if (devmode != 'R') {
pr_err("--with must follow --replace\n");
exit(2);
}
devmode = 'W';
continue;
case O(INCREMENTAL,'R'):
case O(MANAGE,'R'):
case O(ASSEMBLE,'R'):
case O(BUILD,'R'):
case O(CREATE,'R'): /* Run the array */
if (c.runstop
< 0) {
pr_err("Cannot both Stop and Run an array\n");
exit(2);
}
c.runstop = 1;
continue;
case O(MANAGE,'S'):
if (c.runstop > 0) {
pr_err("Cannot both Run and Stop an array\n");
exit(2);
}
c.runstop = -1;
continue;
case O(MANAGE,'t'):
c.test = 1;
continue;

case O(MISC,'Q'):
case O(MISC,'D'):

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```

case O(MISC,'E'):
case O(MISC,KillOpt):
case O(MISC,'R'):
case O(MISC,'S'):
case O(MISC,'X'):
case O(MISC, ExamineBB):
case O(MISC,'o'):
case O(MISC,'w'):
case O(MISC,'W'):
case O(MISC, WaitOpt):
case O(MISC, Waitclean):
case O(MISC, DetailPlatform):
case O(MISC, KillSubarray):
case O(MISC, UpdateSubarray):
case O(MISC, Dump):
case O(MISC, Restore):
case O(MISC ,Action):
if (opt == KillSubarray || opt == UpdateSubarray) {
    if (c.subarray) {
        pr_err("subarray can only be specified once\n");
        exit(2);
    }
    c.subarray = optarg;
}
if (opt == Action)
{
    if (c.action) {
        pr_err("Only one --action can be specified\n");
        exit(2);
    }
    if (strcmp(optarg, "idle") == 0 ||
        strcmp(optarg, "frozen") == 0 ||
        strcmp(optarg, "check") == 0 ||
        strcmp(optarg, "repair") == 0)
        c.action = optarg;
    else {
        pr_err("action must be one of idle, frozen, check, repair\n");
        exit(2);
    }
}
if (devmode && devmode != opt &&
    (devmode == 'E' ||
     (opt == 'E' && devmode != 'Q'))) {
    pr_err("--examine/-E cannot be given with ");
    if (devmode == 'E') {
        if (option_index >= 0)
            fprintf(stderr, "--%s\n",
                long_options[option_index].name);
    }
}

```

```

else
    fprintf(stderr, "-%c\n", opt);
} else if (isalpha(devmode))
    fprintf(stderr, "-%c\n", devmode);
else
    fprintf(stderr, "previous option\n");
exit(2);
}
devmode = opt;
if (opt == Dump || opt == Restore) {
    if (dump_directory != NULL) {
        pr_err("dump/restore
directory specified twice: %s and %s\n",
            dump_directory, optarg);
        exit(2);
    }
    dump_directory = optarg;
}
continue;
case O(MISC, UdevRules):
    if (devmode && devmode != opt) {
        pr_err("--udev-rules must be the only option.\n");
    } else {
        if (udev_filename)
            pr_err("only specify one udev rule filename. %s ignored.\n",
                optarg);
        else
            udev_filename = optarg;
    }
    devmode = opt;
    continue;
case O(MISC, 't'):
    c.test = 1;
    continue;

case O(MISC, Sparc22):
    if (devmode != 'E') {
        pr_err("--sparc2.2 only allowed with --examine\n");
        exit(2);
    }
    c.SparcAdjust = 1;
    continue;

case O(ASSEMBLE, 'b'): /* here we simply set the bitmap file */
case O(ASSEMBLE, Bitmap):
    if (!optarg) {
        pr_err("bitmap file needed with -b in --assemble mode\n");
        exit(2);
    }

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```

    }
    if (strcmp(optarg, "internal") == 0) {
        pr_err("there is no need to specify --bitmap when assembling
arrays with internal bitmaps\n");
        continue;
    }
    bitmap_fd = open(optarg, O_RDWR);
    if (!*optarg || bitmap_fd < 0) {
        pr_err("cannot open bitmap file %s: %s\n", optarg, strerror(errno));
        exit(2);
    }
    ident.bitmap_fd = bitmap_fd; /* for Assemble */
    continue;

case O(ASSEMBLE, BackupFile):
case O(GROW, BackupFile):
    /* Specify a file into which grow might place a backup,
    * or from which assemble might recover a backup
    */
    if (c.backup_file) {
        pr_err("backup file already specified, rejecting %s\n", optarg);
        exit(2);
    }
    c.backup_file = optarg;
    continue;

case O(GROW, Continue):
    /* Continue interrupted grow
    */
    grow_continue = 1;
    continue;
case O(ASSEMBLE, InvalidBackup):
    /* Acknowledge that the backupfile is invalid, but ask
    * to continue anyway
    */
    c.invalid_backup = 1;
    continue;

case O(BUILD, 'b'):
case O(BUILD, Bitmap):
case O(CREATE, 'b'):
case O(CREATE, Bitmap):
    /* here we create the bitmap */
case O(GROW, 'b'):
case O(GROW, Bitmap):
    if (strcmp(optarg, "internal") == 0 ||
        strcmp(optarg, "none") == 0 ||
        strchr(optarg, '/') != NULL) {

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s.bitmap_file = optarg;
continue;
}
if (strcmp(optarg, "clustered") == 0) {
s.bitmap_file = optarg;
/* Set the default number of cluster nodes
 * to 4 if not already set by user
 */
if (c.nodes < 1)
c.nodes = 4;
continue;
}
/* probable typo */
pr_err("bitmap file must contain a '/', or be 'internal', or be 'clustered', or 'none'\n"
"      not '%s'\n", optarg);
exit(2);

case O(GROW, BitmapChunk):
case O(BUILD, BitmapChunk):
case O(CREATE, BitmapChunk): /* bitmap chunksize */
s.bitmap_chunk = parse_size(optarg);
if (s.bitmap_chunk == 0 ||
    s.bitmap_chunk == INVALID_SECTORS ||
    s.bitmap_chunk & (s.bitmap_chunk - 1)) {
pr_err("invalid bitmap chunksize: %s\n",

optarg);
exit(2);
}
s.bitmap_chunk = s.bitmap_chunk * 512;
continue;

case O(GROW, WriteBehind):
case O(BUILD, WriteBehind):
case O(CREATE, WriteBehind): /* write-behind mode */
s.write_behind = DEFAULT_MAX_WRITE_BEHIND;
if (optarg) {
s.write_behind = parse_num(optarg);
if (s.write_behind < 0 ||
    s.write_behind > 16383) {
pr_err("Invalid value for maximum outstanding write-behind writes: %s.\n\tMust be between 0 and 16383.\n",
optarg);
exit(2);
}
}
continue;

case O(INCREMENTAL, 'r'):

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case O(INCREMENTAL, RebuildMapOpt):
    rebuild_map = 1;
    continue;
case O(INCREMENTAL, IncrementalPath):
    remove_path = optarg;
    continue;
case O(CREATE, WriteJournal):
    if (s.journaldisks) {
        pr_err("Please specify only one journal device for the array.\n");
        pr_err("Ignoring --write-journal %s...\n", optarg);
        continue;
    }
    dv = xmalloc(sizeof(*dv));
    dv->devname = optarg;
    dv->disposition
= 'j'; /* WriteJournal */
    dv->used = 0;
    dv->next = NULL;
    *devlistend = dv;
    devlistend = &dv->next;
    devs_found++;

    s.journaldisks = 1;
    continue;
}
/* We have now processed all the valid options. Anything else is
 * an error
 */
if (option_index > 0)
    pr_err(":option --%s not valid in %s mode\n",
        long_options[option_index].name,
        map_num(modes, mode));
else
    pr_err("option -%c not valid in %s mode\n",
        opt, map_num(modes, mode));
exit(2);

}

if (print_help) {
    char *help_text;
    if (print_help == 2)
        help_text = OptionHelp;
    else
        help_text = mode_help[mode];
    if (help_text == NULL)
        help_text = Help;
    fputs(help_text, stdout);
}

```

```

    exit(0);
}

if (s.journaldisks && (s.level < 4 || s.level > 6)) {
    pr_err("--write-journal is only supported for RAID level 4/5/6.\n");
    exit(2);
}

if (!mode && devs_found) {
    mode = MISC;
    devmode = 'Q';
    if (devlist->disposition == 0)
        devlist->disposition
        = devmode;
}
if (!mode) {
    fputs(Usage, stderr);
    exit(2);
}

if (symlinks) {
    struct createinfo *ci = conf_get_create_info();

    if (strcasecmp(symlinks, "yes") == 0)
        ci->symlinks = 1;
    else if (strcasecmp(symlinks, "no") == 0)
        ci->symlinks = 0;
    else {
        pr_err("option --symlinks must be 'no' or 'yes'\n");
        exit(2);
    }
}

/* Ok, got the option parsing out of the way
 * hopefully it's mostly right but there might be some stuff
 * missing
 *
 * That is mostly checked in the per-mode stuff but...
 *
 * For @,B,C and A without -s, the first device listed must be
 * an md device. We check that here and open it.
 */

if (mode == MANAGE || mode == BUILD || mode == CREATE ||
    mode == GROW || (mode == ASSEMBLE && ! c.scan)) {
    if (devs_found < 1) {
        pr_err("an md device must be given in this mode\n");
        exit(2);
    }
}

```



```

if ((int)ident.super_minor == -2 && c.autof) {
    pr_err("--super-minor=dev is
incompatible with --auto\n");
    exit(2);
}
if (mode == MANAGE || mode == GROW) {
    mdfd = open_mddev(devlist->devname, 1);
    if (mdfd < 0)
        exit(1);
    } else
        /* non-existent device is OK */
        mdfd = open_mddev(devlist->devname, 0);
    if (mdfd == -2) {
        pr_err("device %s exists but is not an md array.\n", devlist->devname);
        exit(1);
    }
    if ((int)ident.super_minor == -2) {
        struct stat stb;
        if (mdfd < 0) {
            pr_err("--super-minor=dev given, and listed device %s doesn't exist.\n",
                devlist->devname);
            exit(1);
        }
        fstat(mdfd, &stb);
        ident.super_minor = minor(stb.st_rdev);
    }
    if (mdfd >= 0 && mode != MANAGE && mode != GROW) {
        /* We don't really want this open yet, we just might
        * have wanted to check some things
        */
        close(mdfd);
        mdfd = -1;
    }
}

if (s.raiddisks) {
    if (s.raiddisks == 1 && !c.force && s.level != LEVEL_FAULTY) {
        pr_err("'1' is an unusual number of drives for an array, so
it is probably\n"
            "    a mistake. If you really mean it you will need to specify --force before\n"
            "    setting the number of drives.\n");
        exit(2);
    }
}

if (c.homehost == NULL && c.require_homehost)
    c.homehost = conf_get_homehost(&c.require_homehost);
if (c.homehost == NULL || strcasecmp(c.homehost, "<system>") == 0) {

```

```

if (gethostname(sys_hostname, sizeof(sys_hostname)) == 0) {
    sys_hostname[sizeof(sys_hostname)-1] = 0;
    c.homehost = sys_hostname;
}
}
if (c.homehost &&
    (!c.homehost[0] || strcasecmp(c.homehost, "<none>") == 0)) {
    c.homehost = NULL;
    c.require_homehost = 0;
}

rv = 0;

set_hooks(); /* set hooks from libs */

if (c.homecluster == NULL && (c.nodes > 0)) {
    c.homecluster = conf_get_homecluster();
    if (c.homecluster == NULL)
        rv = get_cluster_name(&c.homecluster);
    if (rv) {
        pr_err("The md can't get cluster name\n");
        exit(1);
    }
}

if (c.backup_file && data_offset != INVALID_SECTORS)
{
    pr_err("--backup-file and --data-offset are incompatible\n");
    exit(2);
}

if ((mode == MISC && devmode == 'E') ||
    (mode == MONITOR && spare_sharing == 0))
    /* Anyone may try this */;
else if (geteuid() != 0) {
    pr_err("must be super-user to perform this action\n");
    exit(1);
}

ident.autof = c.autof;

if (c.scan && c.verbose < 2)
    /* --scan implied --brief unless -vv */
    c.brief = 1;

switch(mode) {
case MANAGE:
    /* readonly, add/remove, readwrite, runstop */

```

```

if (c.readonly > 0)
    rv = Manage_ro(devlist->devname, mdfd, c.readonly);
if (!rv && devs_found>1)
    rv = Manage_subdevs(devlist->devname, mdfd,
        devlist->next, c.verbose, c.test,
        c.update, c.force);
if (!rv && c.readonly < 0)
    rv = Manage_ro(devlist->devname, mdfd, c.readonly);
if (!rv && c.runstop > 0)
    rv = Manage_run(devlist->devname, mdfd, &c);
if (!rv && c.runstop < 0)
    rv = Manage_stop(devlist->devname, mdfd, c.verbose, 0);
break;
case
ASSEMBLE:
if (devs_found == 1 && ident.uuid_set == 0 &&
    ident.super_minor == UnSet && ident.name[0] == 0 &&
    !c.scan ) {
/* Only a device has been given, so get details from config file */
struct mddev_ident *array_ident = conf_get_ident(devlist->devname);
if (array_ident == NULL) {
    pr_err("%s not identified in config file.\n",
        devlist->devname);
    rv |= 1;
    if (mdfd >= 0)
        close(mdfd);
    } else {
    if (array_ident->autof == 0)
        array_ident->autof = c.autof;
    rv |= Assemble(ss, devlist->devname, array_ident,
        NULL, &c);
    }
    } else if (!c.scan)
    rv = Assemble(ss, devlist->devname, &ident,
        devlist->next, &c);
else if (devs_found > 0) {
    if (c.update && devs_found > 1) {
        pr_err("can only update a single array at a time\n");
        exit(1);
    }
    if (c.backup_file && devs_found > 1) {
        pr_err("can only assemble a single array when providing a backup file.\n");
        exit(1);
    }
    for
    (dv = devlist ; dv ; dv=dv->next) {
        struct mddev_ident *array_ident = conf_get_ident(dv->devname);
        if (array_ident == NULL) {

```

```

pr_err("%s not identified in config file.\n",
dv->devname);
rv |= 1;
continue;
}
if (array_ident->autof == 0)
array_ident->autof = c.autof;
rv |= Assemble(ss, dv->devname, array_ident,
NULL, &c);
}
} else {
if (c.update) {
pr_err("--update not meaningful with a --scan assembly.\n");
exit(1);
}
if (c.backup_file) {
pr_err("--backup_file not meaningful with a --scan assembly.\n");
exit(1);
}
rv = scan_assemble(ss, &c, &ident);
}

break;
case BUILD:
if (c.delay == 0)
c.delay = DEFAULT_BITMAP_DELAY;
if (s.write_behind && !s.bitmap_file) {
pr_err("write-behind mode requires a bitmap.\n");
rv = 1;
break;
}
if (s.raiddisks == 0) {
pr_err("no raid-devices specified.\n");
rv = 1;
break;
}

if
(s.bitmap_file) {
if (strcmp(s.bitmap_file, "internal") == 0 ||
strcmp(s.bitmap_file, "clustered") == 0) {
pr_err("'internal' and 'clustered' bitmaps not supported with --build\n");
rv |= 1;
break;
}
}
rv = Build(devlist->devname, devlist->next, &s, &c);
break;

```

```

case CREATE:
if (c.delay == 0)
c.delay = DEFAULT_BITMAP_DELAY;

if (c.nodes) {
if (!s.bitmap_file ||
    strcmp(s.bitmap_file, "clustered") != 0) {
pr_err("--nodes argument only compatible with --bitmap=clustered\n");
rv = 1;
break;
}

if (s.level != 1) {
pr_err("--bitmap=clustered is currently supported with RAID mirror only\n");
rv = 1;
break;
}
}

if (s.write_behind && !s.bitmap_file) {
pr_err("write-behind mode requires a bitmap.\n");
rv = 1;
break;
}

if (s.raiddisks == 0) {
pr_err("no raid-devices specified.\n");
rv = 1;
break;
}

rv = Create(ss, devlist->devname,

    ident.name, ident.uuid_set ? ident.uuid : NULL,
    devs_found-1, devlist->next,
    &s, &c, data_offset);
break;
case MISC:
if (devmode == 'E') {
if (devlist == NULL && !c.scan) {
pr_err("No devices to examine\n");
exit(2);
}
if (devlist == NULL)
devlist = conf_get_devs();
if (devlist == NULL) {
pr_err("No devices listed in %s\n", configfile?configfile:DefaultConfFile);
exit(1);
}
}

```

```

rv = Examine(devlist, &c, ss);
} else if (devmode == DetailPlatform) {
rv = Detail_Platform(ss ? ss->ss : NULL, ss ? c.scan : 1,
    c.verbose, c.export,
    devlist ? devlist->devname : NULL);
} else if (devlist == NULL) {
if (devmode == 'S' && c.scan)
rv = stop_scan(c.verbose);
else if ((devmode == 'D' || devmode == Waitclean) &&
    c.scan)
rv = misc_scan(devmode, &c);
else if (devmode == UdevRules)
rv = Write_rules(udev_filename);
else {
pr_err("No devices given.\n");
exit(2);
}
}
else
rv = misc_list(devlist, &ident, dump_directory, ss, &c);
break;
case MONITOR:
if (!devlist && !c.scan) {
pr_err("Cannot monitor: need --scan or at least one device\n");
rv = 1;
break;
}
if (pidfile && !daemonise) {
pr_err("Cannot write a pid file when not in daemon mode\n");
rv = 1;
break;
}
if (c.delay == 0) {
if (get_linux_version() > 2006016)
/* mdstat responds to poll */
c.delay = 1000;
else
c.delay = 60;
}
rv = Monitor(devlist, mailaddr, program,
    &c, daemonise, oneshot,
    dosyslog, pidfile, increments,
    spare_sharing);
break;

case GROW:
if (array_size > 0) {
/* always impose array size first, independent of

```

```

* anything else
* Do not allow level or raid_disks changes at the
* same time as that can be irreversibly destructive.
*/
struct mdinfo sra;
int err;
if (s.raiddisks || s.level != UnSet) {
    pr_err("cannot change
array size in same operation as changing raiddisks or level.\n"
        "    Change size first, then check that data is still intact.\n");
    rv = 1;
    break;
}
sysfs_init(&sra, mdfd, NULL);
if (array_size == MAX_SIZE)
    err = sysfs_set_str(&sra, NULL, "array_size", "default");
else
    err = sysfs_set_num(&sra, NULL, "array_size", array_size / 2);
if (err < 0) {
    if (errno == E2BIG)
        pr_err("--array-size setting is too large.\n");
    else
        pr_err("current kernel does not support setting --array-size\n");
    rv = 1;
    break;
}
}
if (devs_found > 1 && s.raiddisks == 0 && s.level == UnSet) {
    /* must be '-a'. */
    if (s.size > 0 || s.chunk ||
        s.layout_str || s.bitmap_file) {
        pr_err("--add cannot be used with other geometry changes in --grow mode\n");
        rv = 1;
        break;
    }
    for (dv=devlist->next; dv ; dv=dv->next) {
        rv = Grow_Add_device(devlist->devname, mdfd,
            dv->devname);
        if (rv)
            break;
    }
}
else if (s.bitmap_file) {
    if (s.size > 0 || s.raiddisks || s.chunk ||
        s.layout_str || devs_found > 1) {
        pr_err("--bitmap changes cannot be used with other geometry changes in --grow mode\n");
        rv = 1;
        break;
    }
}

```

```

}
if (c.delay == 0)
    c.delay = DEFAULT_BITMAP_DELAY;
rv = Grow_addbitmap(devlist->devname, mdfd, &c, &s);
} else if (grow_continue)
    rv = Grow_continue_command(devlist->devname,
        mdfd, c.backup_file,
        c.verbose);
else if (s.size > 0 || s.raiddisks || s.layout_str ||
    s.chunk != 0 || s.level != UnSet ||
    data_offset != INVALID_SECTORS) {
    rv = Grow_reshape(devlist->devname, mdfd,
        devlist->next,
        data_offset, &c, &s);
} else if (array_size == 0)
    pr_err("no changes to --grow\n");
break;
case INCREMENTAL:
    if (rebuild_map) {
        RebuildMap();
    }
    if (c.scan) {
        rv = 1;
        if (devlist) {
            pr_err("In --incremental mode, a device cannot be given
with --scan.\n");
            break;
        }
    }
    if (c.runstop <= 0) {
        pr_err("--incremental --scan meaningless without --run.\n");
        break;
    }
    if (devmode == 'f') {
        pr_err("--incremental --scan --fail not supported.\n");
        break;
    }
    rv = IncrementalScan(&c, NULL);
}
if (!devlist) {
    if (!rebuild_map && !c.scan) {
        pr_err("--incremental requires a device.\n");
        rv = 1;
    }
    break;
}
if (devmode == 'f') {
    if (devlist->next) {
        pr_err("'--incremental --fail' can only handle one device.\n");
    }
}

```



```

    rv = 1;
    break;
}
rv = IncrementalRemove(devlist->devname, remove_path,
    c.verbose);
} else
    rv = Incremental(devlist, &c, ss);
break;
case AUTODETECT:
    autodetect();
    break;
}
exit(rv);
}

static int scan_assemble(struct supertype *ss,
    struct context *c,
    struct mddev_ident *ident)
{
    struct mddev_ident *a, *array_list = conf_get_ident(NULL);
    struct mddev_dev *devlist = conf_get_devs();
    struct
    map_ent *map = NULL;
    int cnt = 0;
    int rv = 0;
    int failures, successes;

    if (conf_verify_devnames(array_list)) {
        pr_err("Duplicate MD device names in conf file were found.\n");
        return 1;
    }
    if (devlist == NULL) {
        pr_err("No devices listed in conf file were found.\n");
        return 1;
    }
    for (a = array_list; a ; a = a->next) {
        a->assembled = 0;
        if (a->autof == 0)
            a->autof = c->autof;
    }
    if (map_lock(&map))
        pr_err("failed to get exclusive lock on mapfile\n");
    do {
        failures = 0;
        successes = 0;
        rv = 0;
        for (a = array_list; a ; a = a->next) {
            int r;

```

```

if (a->assembled)
    continue;
if (a->devname &&
    strcasecmp(a->devname, "<ignore>") == 0)
    continue;

r = Assemble(ss, a->devname,
             a, NULL, c);
if (r == 0) {
    a->assembled = 1;
    successes++;
} else
    failures++;
rv |= r;
cnt++;
}
} while (failures && successes);
if (c->homehost && cnt == 0) {
    /* Maybe
we can auto-assemble something.
    * Repeatedly call Assemble in auto-assemble mode
    * until it fails
    */
    int rv2;
    int acnt;
    ident->autof = c->autof;
    do {
        struct mddev_dev *devlist = conf_get_devs();
        acnt = 0;
        do {
            rv2 = Assemble(ss, NULL,
                          ident,
                          devlist, c);
            if (rv2 == 0) {
                cnt++;
                acnt++;
            }
        } while (rv2 != 2);
        /* Incase there are stacked devices, we need to go around again */
    } while (acnt);
    if (cnt == 0 && rv == 0) {
        pr_err("No arrays found in config file or automatically\n");
        rv = 1;
    } else if (cnt)
        rv = 0;
    } else if (cnt == 0 && rv == 0) {
        pr_err("No arrays found in config file\n");
        rv = 1;
    }
}

```

```

}
map_unlock(&map);
return rv;
}

static int misc_scan(char devmode, struct context *c)
{
/* apply --detail or --wait-clean to
 * all devices in /proc/mdstat
 */
struct mdstat_ent *ms = mdstat_read(0, 1);
struct mdstat_ent *e;
struct map_ent *map = NULL;
int
members;
int rv = 0;

for (members = 0; members <= 1; members++) {
for (e=ms ; e ; e=e->next) {
char *name = NULL;
struct map_ent *me;
struct stat stb;
int member = e->metadata_version &&
strncmp(e->metadata_version,
"external:", 10) == 0;
if (members != member)
continue;
me = map_by_devnm(&map, e->devnm);
if (me && me->path
&& strcmp(me->path, "/unknown") != 0)
name = me->path;
if (name == NULL || stat(name, &stb) != 0)
name = get_md_name(e->devnm);

if (!name) {
pr_err("cannot find device file for %s\n",
e->devnm);
continue;
}
if (devmode == 'D')
rv |= Detail(name, c);
else
rv |= WaitClean(name, -1, c->verbose);
put_md_name(name);
}
}
free_mdstat(ms);
return rv;
}

```

```

}

static int stop_scan(int verbose)
{
    /* apply --stop to all devices in /proc/mdstat */
    /* Due to possible stacking of devices, repeat until
       * nothing more can be stopped
       */
    int
    progress=1, err;
    int last = 0;
    int rv = 0;
    do {
        struct mdstat_ent *ms = mdstat_read(0, 0);
        struct mdstat_ent *e;

        if (!progress) last = 1;
        progress = 0; err = 0;
        for (e=ms ; e ; e=e->next) {
            char *name = get_md_name(e->devnm);
            int mdfd;

            if (!name) {
                pr_err("cannot find device file for %s\n",
                       e->devnm);
                continue;
            }
            mdfd = open_mddev(name, 1);
            if (mdfd >= 0) {
                if (Manage_stop(name, mdfd, verbose, !last))
                    err = 1;
                else
                    progress = 1;
                close(mdfd);
            }

            put_md_name(name);
        }
        free_mdstat(ms);
    } while (!last && err);
    if (err)
        rv |= 1;
    return rv;
}

static int misc_list(struct mddev_dev *devlist,
                    struct mddev_ident *ident,
                    char *dump_directory,

```

```

    struct supertype *ss, struct context *c)
{
    struct mddev_dev *dv;
    int rv = 0;

    for (dv=devlist ; dv; dv=(rv & 16) ? NULL : dv->next) {
        int mdfd;

        switch(dv->disposition) {
            case 'D':
                rv |= Detail(dv->devname,
c);
                continue;
            case KillOpt: /* Zero superblock */
                if (ss)
                    rv |= Kill(dv->devname, ss, c->force, c->verbose,0);
                else {
                    int v = c->verbose;
                    do {
                        rv |= Kill(dv->devname, NULL, c->force, v, 0);
                        v = -1;
                    } while (rv == 0);
                    rv &= ~2;
                }
                continue;
            case 'Q':
                rv |= Query(dv->devname); continue;
            case 'X':
                rv |= ExamineBitmap(dv->devname, c->brief, ss); continue;
            case ExamineBB:
                rv |= ExamineBadblocks(dv->devname, c->brief, ss); continue;
            case 'W':
            case WaitOpt:
                rv |= Wait(dv->devname); continue;
            case Waitclean:
                rv |= WaitClean(dv->devname, -1, c->verbose); continue;
            case KillSubarray:
                rv |= Kill_subarray(dv->devname, c->subarray, c->verbose);
                continue;
            case UpdateSubarray:
                if (c->update == NULL) {
                    pr_err("-U/--update must be specified with --update-subarray\n");
                    rv |= 1;
                    continue;
                }
                rv |= Update_subarray(dv->devname, c->subarray,

```

```

c->update, ident, c->verbose);
    continue;
case Dump:
    rv |= Dump_metadata(dv->devname, dump_directory, c, ss);
    continue;
case Restore:
    rv |= Restore_metadata(dv->devname, dump_directory, c, ss,
        (dv == devlist && dv->next == NULL));
    continue;
case Action:
    rv |= SetAction(dv->devname, c->action);
    continue;
}
if (dv->devname[0] == '/')
    mdfd = open_mddev(dv->devname, 1);
else {
    mdfd = open_dev(dv->devname);
    if (mdfd < 0)
        pr_err("Cannot open %s\n", dv->devname);
}
if (mdfd >= 0) {
    switch(dv->disposition) {
    case 'R':
        c->runstop = 1;
        rv |= Manage_run(dv->devname, mdfd, c); break;
    case 'S':
        rv |= Manage_stop(dv->devname, mdfd, c->verbose, 0); break;
    case 'o':
        rv |= Manage_ro(dv->devname, mdfd, 1); break;
    case 'w':
        rv |= Manage_ro(dv->devname, mdfd, -1); break;
    }
    close(mdfd);
} else
    rv |= 1;
}
return rv;
}

```

```

int SetAction(char *dev, char *action)
{
    int
    fd = open(dev, O_RDONLY);
    struct mdinfo mdi;
    if (fd < 0) {
        pr_err("Couldn't open %s: %s\n", dev, strerror(errno));
        return 1;
    }
}

```

```

sysfs_init(&mdi, fd, NULL);
close(fd);
if (!mdi.sys_name[0]) {
    pr_err("%s is no an md array\n", dev);
    return 1;
}

if (sysfs_set_str(&mdi, NULL, "sync_action", action) < 0) {
    pr_err("Count not set action for %s to %s: %s\n",
        dev, action, strerror(errno));
    return 1;
}
return 0;
}

```

1.148 json-c 0.13.1-r0

1.148.1 Available under license :

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Any

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1.151 kexec-tools 2.0.17-r0

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1.152 xz 5.2.4-r0

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```
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```

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=====

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1.153 libunwind 1.2.1-r0

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1.154 wireshark 2.6.10-r0

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```
#!/usr/bin/env python
```

```
# Copyright (c) 2013 The Chromium Authors. All rights reserved.
```

```
#
```

```
# SPDX-License-Identifier: BSD-3-Clause
```

```
#
```

```
""""Makes sure that all files contain proper licensing information.""""
```

```
import optparse
import os.path
import subprocess
import sys
```

```
def PrintUsage():
    print("""Usage: python checklicenses.py [--root <root>] [tocheck]
--root Specifies the repository root. This defaults to "." relative
      to the script file. This will be correct given the normal location
      of the script in "<root>/tools".

--ignore-suppressions Ignores path-specific license whitelist. Useful when
      trying to remove a suppression/whitelist entry.

tocheck Specifies the directory, relative to root, to check. This defaults
      to "." so it checks everything.
```

Examples:

```
python checklicenses.py
python checklicenses.py --root ~/chromium/src third_party""")
```

```
WHITELISTED_LICENSES = [
    'BSD',
    'BSD (2 clause)',
    'BSD (2 clause) GPL
(v2 or later)',
    'BSD (3 clause)',
    'GPL (v2 or later)',
    'GPL (v3 or later) (with Bison parser exception)',
    'ISC',
    'ISC GPL (v2 or later)',
    'LGPL (v2 or later)',
    'LGPL (v2.1 or later)',
    'MIT/X11 (BSD like)',
    'Public domain',
    'Public domain GPL (v2 or later)',
    'Public domain MIT/X11 (BSD like)',
    'zlib/libpng',
    'zlib/libpng GPL (v2 or later)',
]
```

```
PATH_SPECIFIC_WHITELISTED_LICENSES = {
    'caputils/airpcap.h': [
```



```

    'BSD-3-Clause',
],
'wsutil/strnatcmp.c': [
    'Zlib',
],
'wsutil/strnatcmp.h': [
    'Zlib',
],
'dtds': [
    'UNKNOWN',
],
'diameter/dictionary.dtd': [
    'UNKNOWN',
],
'wimaxasncp/dictionary.dtd': [
    'UNKNOWN',
],
'doc/': [
    'UNKNOWN',
],
'docbook/custom_layer_chm.xml': [
    'UNKNOWN',
],
'docbook/custom_layer_single_html.xml': [
    'UNKNOWN',
],
'docbook/ws.css': [
    'UNKNOWN'
],
'fix': [
    'UNKNOWN',
],
'wsutil/g711.c': [
    'UNKNOWN',
],
'packaging/macosx': [
    'UNKNOWN',
],
'epan/except.c': [
    'UNKNOWN',
],
'epan/except.h': [
    'UNKNOWN',
],
'cmake/TestFileOffsetBits.c': [
    'UNKNOWN',
],
'cmake/TestWindowsFSeek.c': [

```

```

    'UNKNOWN',
],
# Generated header files by lex/yacc/whatever
'epan/dtd_grammar.h': [
    'UNKNOWN',
],
'epan/dfilter/grammar.h': [
    'UNKNOWN',
],
'epan/dfilter/grammar.c': [
    'UNKNOWN',
],
'epan/dissectors/packet-dtn.c': [
    'GPL (v2 or later) GPL (v2 or later)' # TODO: make licensecheck handle this better
],
'epan/dissectors/packet-ieee80211-radiotap-iter.': [ # Using ISC license only
    'ISC GPL (v2)'
],
'epan/dissectors/packet-ppi.c': [ # Using BSD (3 clause) license
    'BSD (3 clause) GPL (v2)'
],
'plugins/mate/mate_grammar.h': [
    'UNKNOWN',
],
'version.h':
[
    'UNKNOWN',
],
# Special IDL license that appears to be compatible as far as I (not a
# lawyer) can tell. See
# https://www.wireshark.org/lists/wireshark-dev/201310/msg00234.html
'epan/dissectors/pidl/idl_types.h': [
    'UNKNOWN',
],
# Written by Ronnie Sahlberg and correctly licensed, but cannot include
# a license header despite the file extension as they need to be
# parsed by the pidl tool
'epan/dissectors/pidl/mapi/request.cnf.c': [
    'UNKNOWN',
],
'epan/dissectors/pidl/mapi/response.cnf.c': [
    'UNKNOWN',
],
# The following tools are under incompatible licenses (mostly GPLv3 or
# GPLv3+), but this is OK since they are not actually linked into Wireshark
'tools/pidl': [
    'UNKNOWN',
],

```

```

'tools/lemon': [
    'UNKNOWN',
],
'tools/licensecheck.pl': [
    'GPL (v2)'
],
# Generated files for GTK pixbuf binary bundling
'ui/gtk/wireshark-gresources.h': [
    'UNKNOWN',
],
'ui/gtk/wireshark-gresources.c': [
    'UNKNOWN',
],
# The airpcap code is using BSD (3 clause)
'epan/crypt/dot11decrypt_interop.h': [
    'BSD (3 clause) GPL (v2)'
],
'epan/crypt/dot11decrypt_tkip.c': [
    'BSD (3 clause) GPL (v2)'
],
'epan/crypt/dot11decrypt_ws.h': [
    'BSD (3 clause) GPL (v2)'
],
'epan/crypt/wep-wpadeefs.h': [
    'BSD (3 clause) GPL (v2)'
],
'epan/crypt/dot11decrypt_system.h': [
    'BSD (3 clause) GPL (v2)'
],
'epan/crypt/dot11decrypt_user.h': [
    'BSD (3 clause) GPL (v2)'
],
'epan/crypt/dot11decrypt_ccmp.c': [
    'BSD (3 clause) GPL (v2)'
],
'epan/crypt/dot11decrypt_int.h': [
    'BSD (3 clause) GPL (v2)'
],
'epan/crypt/dot11decrypt.c': [
    'BSD (3 clause) GPL (v2)'
],
'epan/crypt/dot11decrypt_debug.h': [
    'BSD (3 clause) GPL (v2)'
],
'wsutil/dot11decrypt_wep.c': [
    'BSD (3 clause)
GPL (v2)'
],

```

```

}

def check_licenses(options, args):
    # Figure out which directory we have to check.
    if len(args) == 0:
        # No directory to check specified, use the repository root.
        start_dir = options.base_directory
    elif len(args) == 1:
        # Directory specified. Start here. It's supposed to be relative to the
        # base directory.
        start_dir = os.path.abspath(os.path.join(options.base_directory, args[0]))
    else:
        # More than one argument, we don't handle this.
        PrintUsage()
        return 1

    print("Using base directory: %s" % options.base_directory)
    print("Checking: %s" % start_dir)
    print("")

    licensecheck_path = os.path.abspath(os.path.join(options.base_directory,
                                                    'tools',
                                                    'licensecheck.pl'))

    licensecheck = subprocess.Popen([licensecheck_path,
                                     '-l', '150',
                                     '-r', start_dir],

                                    stdout=subprocess.PIPE,
                                    stderr=subprocess.PIPE)
    stdout, stderr = licensecheck.communicate()
    if sys.version_info[0] >= 3:
        stdout = stdout.decode('utf-8')
        stderr = stderr.decode('utf-8')
    if options.verbose:
        print('----- licensecheck stdout -----')
        print(stdout)
        print('----- end licensecheck stdout -----')
    if licensecheck.returncode != 0 or stderr:
        print('----- licensecheck stderr -----')
        print(stderr)
        print('----- end licensecheck stderr -----')
        print("\n\nFAILED\n\n")
        return 1

    success = True
    exit_status = 0
    for line in stdout.splitlines():

```

```

filename, license = line.split(':', 1)
filename = os.path.realpath(filename.strip(), options.base_directory)

# All files in the build output directory are generated one way or another.
# There's no need to check them.
if filename.startswith('out/') or filename.startswith('sconsbuild/'):
    continue

# For now we're just interested in the license.
license = license.replace('*No copyright*', '').strip()

# Skip generated files.
if 'GENERATED FILE' in license:
    continue

if license in WHITELISTED_LICENSES:
    continue

if not options.ignore_suppressions:
    found_path_specific = False
    for prefix in PATH_SPECIFIC_WHITELISTED_LICENSES:
        if (filename.startswith(prefix) and
            license in PATH_SPECIFIC_WHITELISTED_LICENSES[prefix]):
            found_path_specific = True
            break
    if found_path_specific:
        continue

reason = "'%s' has non-whitelisted license '%s'" % (filename, license)
success = False
print(reason)
exit_status = 1

if success:
    print("\nSUCCESS\n")
    return 0
else:
    print("\nFAILED\n")
    return exit_status

def main():
    default_root = os.path.abspath(
        os.path.join(os.path.dirname(__file__), '..'))
    option_parser = optparse.OptionParser()
    option_parser.add_option('--root', default=default_root,
                             dest='base_directory',
                             help='Specifies the repository root. This defaults '

```

```

        'to "../.." relative to the script file, which '
        'will normally be the repository root.')
option_parser.add_option('-v', '--verbose', action='store_true',
                        default=False, help='Print debug logging')
option_parser.add_option('--ignore-suppressions',
                        action='store_true',
                        default=False,
                        help='Ignore path-specific license whitelist.')
options, args = option_parser.parse_args()
return check_licenses(options, args)

```

```
if '__main__' == __name__:
```

```
    sys.exit(main())
```

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

Upstream-Name: Wireshark

Source: <http://www.wireshark.org/>

Files-Excluded: debian

Files: *

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Files: debian/*

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wiretap/erf.h

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Files: wiretap/i4b_trace.h

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Description: Change location of license file in about dialog

Forwarded: not-needed

Author: Frederic Peters <fpeters@debian.org>

```
--- a/ui/gtk/about_dlg.c
+++ b/ui/gtk/about_dlg.c
@@ -522,7 +522,7 @@
#if defined(_WIN32)
    absolute_path = get_datafile_path("COPYING.txt");
#else
- absolute_path = get_datafile_path("COPYING");
+ absolute_path = get_datafile_path("ABOUT.GPL");
#endif
    page = text_page_new(absolute_path);

--- a/ui/qt/about_dialog.cpp
+++ b/ui/qt/about_dialog.cpp
@@ -335,7 +335,7 @@
#if defined(_WIN32)
    f_license.setFileName(get_datafile_path("COPYING.txt"));
#else
- f_license.setFileName(get_datafile_path("COPYING"));
+ f_license.setFileName(get_datafile_path("ABOUT.GPL"));
```

#endif

```
f_license.open(QFile::ReadOnly | QFile::Text);
```

Installing Wireshark on FreeBSD/OpenBSD/NetBSD/DragonFly BSD

=====

1. Extra packages required
2. Compiling Wireshark
3. Berkeley Packet Filter (BPF) requirement
4. Running Wireshark as a non-root user

1. Extra packages required

Wireshark requires a number of additional programs to function.

Install the latest versions of the following programs before compiling:

The easiest way to install these is by using your operating system's ports or packages system. If you prefer to build from source, the programs can be found at the following sites:

glib 2.16 or later:

<ftp.gnome.org/pub/gnome/sources/glib/>

<http://ftp.gnome.org/pub/gnome/sources/glib/>

pkgconfig:

<http://pkgconfig.freedesktop.org/releases/>

python 2.5 or later:

<https://www.python.org/downloads/source/>

If you want to use the Wireshark GUI, install one or both of these toolkits:

gtk+ 2.12 or later:

<ftp.gnome.org/pub/gnome/sources/gtk+/>

<http://ftp.gnome.org/pub/gnome/sources/gtk+/>

Qt 4.7 or later:

http://download.qt-project.org/official_releases/qt/

(These programs may require additional dependencies)

Additional programs can be used to enhance Wireshark's functionality.

These can be found by typing `./configure --help` or looking at the output at the end of running the configure script.

2. Compiling Wireshark

To compile Wireshark with the default options, run configure, make and make install (you may have to run "autogen.sh" first):

```
./configure
make
make install
```

The configure and make steps can be run as a non-root user and you can run Wireshark from the compilation directory itself. You must run make install as root in order to copy the program to the proper directories.

3. Berkeley Packet Filter (BPF) requirement

In order to capture packets (with Wireshark/TShark, tcpdump, or any other packet capture program) on a BSD system, your kernel must have the Berkeley Packet Filter mechanism enabled. The default kernel configurations in recent versions of BSD systems have this enabled already. To verify the bpf device is present, look in the /dev directory:

```
ls -l /dev/bpf*
```

You should see one or more bpf devices listed similar to this:

```
crw----- 1 root  wheel  0, 90 Aug 10 21:05 /dev/bpf0
crw----- 1 root  wheel  0, 91 Aug 10 21:05 /dev/bpf1
```

Packet-capturing programs will pick the first bpf device that's not in use. Recent versions of most BSDs will create bpf devices as needed, so you don't have to configure the number of devices that will be available.

4. Running wireshark as a non-root user

Since the bpf devices are read-only by the owner (root), you normally have to run packet capturing programs such as Wireshark as root. It is safer to run programs as a non-root user if possible. To run Wireshark as a non-root user, you must change the permissions on the bpf device(s). If you are the only user that needs to use Wireshark, the easiest way is to change the owner of each bpf device to your username. You can also add the read/write ability to the group (typically wheel) and add users that need to use Wireshark to the wheel group. Check your operating system's documentation on how to make permanent these changes as they

are often reset upon reboot; if /dev is implemented with devfs, it might be possible to configure devfs to create all bpf devices owned by a particular user and/or group and with particular permissions. In FreeBSD 6.0 and later this can be done by creating an /etc/devfs.rules file with content such as

```
[localrules=10]
add path 'bpf*' {mode and permissions}
```

where "mode and permissions" can include clauses such as

```
mode {octal permissions}
```

to set the permissions on the device (e.g., "mode 0660" to set the permissions

```
to rw-rw-r--),
```

```
user {user}
```

to set the user who owns the device, or

```
group {group}
```

to set the group that owns the device and adding a line such as

```
devfs_system_ruleset=localrules
```

to /etc/rc.conf. For example, an /etc/devfs.rules file with

```
[localrules=10]
add path 'bpf*' mode 0660 group wheel
```

will grant read and write permissions on all BPF devices to all users in the "wheel" group.

```
/* <filename>.c
```

```
*
```

```
* Wireshark - Network traffic analyzer
```

```
* By Gerald Combs <gerald@wireshark.org>
```

```
* Copyright 1998 Gerald Combs
```

```
*
```

```
* SPDX-License-Identifier: GPL-2.0-or-later*/
```

1.155 autoconf-archive 2018.03.13-r0

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Version 3.0, 18 August 2009

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```
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```

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1.158 glibc 2.28-r0

1.158.1 Available under license :

From 18fe4a6172c58fe863fe388745c78ec642c2c6fc Mon Sep 17 00:00:00 2001

From: Serhii Popovych <spopovyc@cisco.com>

Date: Fri, 23 Sep 2016 23:00:43 -0700

Subject: [PATCH] glibc: Do not build BSD kernels compatibility functions

They are failing stubs anyway and may cause various build time issues (e.g. libopenbsd-compat.so from binos/contrib/openssh linking failures due to multiple setlogin() definitions).

Following functions are not in glibc with this patch:

chflags
fchflags
lchmod
revoke
setlogin

Signed-off-by: Serhii Popovych <spopovyc@cisco.com>

io/Makefile | 2 +-
login/Makefile | 2 +-
misc/Makefile | 3 +--
3 files changed, 3 insertions(+), 4 deletions(-)

diff --git a/io/Makefile b/io/Makefile

index ec5c6d7a2fb8..fc062296a560 100644

--- a/io/Makefile

+++ b/io/Makefile

@@ -36,7 +36,7 @@ routines := \

fxstatat fxstatat64 \

statfs fstatfs statfs64 fstatfs64 \

statvfs fstatvfs statvfs64 fstatvfs64 \

- umask chmod fchmod lchmod fchmodat \

+ umask

chmod fchmod fchmodat \

mkdir mkdirat \

open open_2 open64 open64_2 openat openat_2 openat64 openat64_2 \

read write lseek lseek64 access euidaccess faccessat \

diff --git a/login/Makefile b/login/Makefile

index 8b31991be835..2cd1384c6e01 100644

--- a/login/Makefile

+++ b/login/Makefile

```
@@ -25,7 +25,7 @@ include ../Makeconfig
```

```
headers := utmp.h bits/utmp.h lastlog.h pty.h
```

```
-routines := getlogin getlogin_r setlogin getlogin_r_chk \
```

```
+routines := getlogin getlogin_r getlogin_r_chk \
```

```
    getutent getutent_r getutid getutline getutid_r getutline_r \
```

```
    utmp_file utmpname updwtmp getpt grantpt unlockpt ptsname \
```

```
    ptsname_r_chk
```

```
diff --git a/misc/Makefile b/misc/Makefile
```

```
index c9f81515ac9a..b4bce79e5854 100644
```

```
--- a/misc/Makefile
```

```
+++ b/misc/Makefile
```

```
@@ -49,7 +49,7 @@ routines := brk sbrk sstk ioctl \
```

```
    select pselect \
```

```
    acct chroot fsync sync fdasync syncfs reboot \
```

```
    gethostid sethostid \
```

```
-    revoke vhangup \
```

```
+    vhangup \
```

```
    swapon
```

```
swapoff mktemp mkstemp mkstemp64 mkdtemp \
```

```
    mkostemp mkostemp64 mkstemp mkstemp64 mkostemp mkostemp64 \
```

```
    ualarm usleep \
```

```
@@ -58,7 +58,6 @@ routines := brk sbrk sstk ioctl \
```

```
    fstab mntent mntent_r \
```

```
    utimes lutimes futimes futimesat \
```

```
    truncate ftruncate truncate64 ftruncate64 \
```

```
-    chflags fchflags \
```

```
    insremque gettyent getusershell getpass ttyslot \
```

```
    syslog syscall daemon \
```

```
    mmap mmap64 munmap mprotect msync madvise mincore remap_file_pages\
```

1.159 libtasn 4.13-r0

1.159.1 Available under license :

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Version 2.1, February 1999

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

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

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

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

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

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- a) Accompany

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

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Encoding: 169 169 102

GlifName: copyright

Width: 862

Flags: HMW

LayerCount: 2

Back

SplineSet

441 156 m 0

335 156 273 218 273 327 c 0

273 382 287 427 315 462 c 0

344 498 390 515 452 515 c 0

480 515 510 508 541 494 c 1

526 452 l 1

499 462 473 466 450 466 c 0

371 466 330 420 330 339 c 0
330 253 372 203 458 203 c 0
478 203 499 207 522 215 c 1
537 175 l 1
504 162 472 156 441 156 c 0
430 609 m 0
347 609 276 572 231 529 c 0
186 485 148 416 148 333 c 0
148 251 186 181 231 138 c 0
276 94 347 58 430 58 c 0
513 58 583 95 628 138 c 0
673 181 711 251 711 333 c 0
711 416 673 485 628 529 c 0
583 573 513 609 430 609 c 0
428 674 m 0
530 674 618 630 673 576 c 0
729 522 776 436 776 333 c 0
776 231 730 146 674 92 c 0
618 38 532 -7 430 -7 c 0
327 -7 242 38 186 92 c 0
130 146 83 230 83 333 c 0
83 435 129 521 185 575 c 0
240 629 327 674 428 674 c 0
EndSplineSet
Fore
SplineSet
70 344 m 3
70 561 215 706 432 706 c 3
648 706 792 560 792 344 c 3
792 134 645 -10 432
-10 c 3
216 -10 70 131 70 344 c 3
156 348 m 3
156 183 264 76 432 76 c 3
602 76 709 182 709 348 c 3
709 514 597 624 432 624 c 3
266 624 156 514 156 348 c 3
337 347 m 3
337 274 376 228 450 228 c 3
493 228 515 238 552 252 c 1
580 189 l 1
539 165 497 152 432 152 c 3
314 152 241 229 241 347 c 3
241 468 313 544 432 544 c 3
499 544 534 530 580 508 c 1
552 446 l 1
544 449 546 448 528 453 c 0
506 461 479 470 450 470 c 3

374 470 337 423 337 347 c 3

EndSplineSet

Validated: 1

EndChar

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StartChar: copyright

Encoding: 169 169 102

GlifName: copyright

Width: 869

Flags: HMW

LayerCount: 2

Back

SplineSet

548 524 m 2

564 517 l 1

537 439 l 1

518 446 l 1

495 454 473 458 449 458 c 0

371 458 351 408 351 353 c 0

351 294 372 238 455 238 c 0

475 238 495 242 515 249 c 2

533 255 l 1

561 179 l 1

543 172 l 2

509 159 474 152 437 152 c 0

355 152 255 195 255 343 c 0

255 496 355 547 442 547 c 0

479 547 515 539 548 524 c 2

430 602 m 0

284 602 171 484 171 347 c 0

171 210 284 93 430 93 c 0

576 93 688 210 688 347 c 0
 688 484 576 602 430 602 c 0
 792 347 m 3
 792 155 634 -10 430 -10 c 3
 226 -10 67 154 67 347 c 3
 67 536 223 706 430 706 c 3
 634 706 792 539 792 347 c 3
 EndSplineSet
 Fore
 SplineSet
 784 334 m 259
 784 129 638 -10 432 -10 c 3
 229 -10 85 130 85 334 c 259
 85 537 228 678 432 678 c 3
 638 678 784 540 784 334 c 259
 719 334 m 259
 719 498 600 614 436 614 c 3
 270 614 151 499 151 334 c 259
 151 170 271 57 436 57 c 3
 599 57 719 171 719 334 c 259
 281 329 m 3
 281 454 339
 517 456 517 c 3
 486 517 517 511 550 497 c 1
 531 443 l 1
 506 451 482 456 458 456 c 3
 385 456 349 418 349 341 c 3
 349 260 384 216 466 216 c 3
 484 216 504 221 527 229 c 1
 546 175 l 1
 513 161 480 155 448 155 c 3
 342 155 281 222 281 329 c 3
 EndSplineSet
 Validated: 1
 EndChar

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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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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.)

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

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- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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- 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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1.178 systemtap 4.0-r0

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1.179 busybox 1.29.3-r0

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Julian Seward, Cambridge, UK.
jseward@bzip.org
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```

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1.183 netbase 5.4-r0

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1.184 ncurses 6.1+20180630-r0

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1.185 python3-gevent 1.2.2-r0

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1.188 python-networkx 2.1-r0

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=====

NetworkX was originally written by Aric Hagberg, Dan Schult, and Pieter Swart, and has been developed with the help of many others. Thanks to everyone who has improved NetworkX by contributing code, bug reports (and fixes), documentation, and input on design, features, and the future of NetworkX.

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This section aims to provide a list of people and projects that have contributed to ``networkx``. It is intended to be an **inclusive** list, and anyone who has contributed and wishes to make that contribution known is welcome to add an entry into this file. Generally, no name should be added to this list without the approval of the person associated with that name.

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1.189 cryptsetup 2.0.4-r0

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1.191 python3-pyudev 0.21.0-r0

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1.192 shadow 4.6-r0

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1.193 libyaml 0.2.1-r0

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1.194 pcsc-lite 1.8.22-r0

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Version 3, 29 June 2007

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

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

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

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

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know

that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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

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

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

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

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in

non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library" and a ``work that uses the library". The former

contains code derived from the library, whereas the latter must be combined with the library in order to run.

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0

@item

This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License"). Each licensee is addressed as ``you".

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from

such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

@item

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

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

@item

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

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@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:

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

@item

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

@item

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

@item

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

@item

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

@end enumerate

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

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

@item

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

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@item

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

@item

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

@end enumerate

@item

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any

patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

@item

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Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and ``any later version'', you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

@item

If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

@center @b{NO WARRANTY}

@item

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

@smallexample

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

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

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

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

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

@end
smallexample

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

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

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

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!
Description:
Concatenate two arbitrary file names.

Files:
lib/filenamecat.h
lib/filenamecat-lgpl.c
m4/filenamecat.m4

Depends-on:
dirname-lgpl

configure.ac:
gl_FILE_NAME_CONCAT_LGPL

Makefile.am:

lib_SOURCES += filenamecat-lgpl.c

Include:

"filenamecat.h"

License:

LGPLv2+

Maintainer:

Jim Meyering

Description:

Provide the GNU Free Documentation License in Texinfo format.

Files:

doc/fdl.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:

unmodifiable license text

Maintainer:

all

Legal Issues about Contributing Code to GNU last updated 14 July 2015

Project GNU has to be careful to obey copyright laws, even though these laws are wrong when they stop people from sharing generally useful published information such as software, because we are in the public eye. We also use copyright to defend users' freedom, by means of copyleft (though this does not excuse copyright law for helping to make software proprietary).

This means that if you want to contribute software to GNU, you have to do something to give us legal permission to use it. There are three ways this can be done:

* Assign the copyright to the Free Software Foundation.

This allows the FSF to act to stop violations of the GPL.

* Keep the copyright and release the program yourself under the GNU GPL. (This alternative is too impractical for contributions to a preexisting FSF-copyrighted GNU program.)

* Put the code in the public domain. Then there is nothing to stop hoarding of modified versions, but we can still use the program in GNU.

Most of these alternatives require a signed piece of paper, or in some cases a digital signature, to make it happen.

* Assigning copyright.

Assigning the copyright means signing a contract that makes the Free Software Foundation the "owner" of the program according to the law. As the copyright holder, the Foundation can sue anyone who tries to distribute the program as a proprietary product. We are willing to keep your name on the program as the author for as long as the program remains recognizably distinct. ("Owner" is in quotes to show that we don't really believe in this kind of ownership.)

The assignment contract commits the foundation to setting distribution terms that permit free redistribution.

Often we don't want to do the work of starting to distribute a program right away. There are many things which we will need in order to have a complete system but which aren't really useful until the rest of the system is done. But signing the assignment does not stop you from distributing the program yourself--as long as you do so under the GNU terms. You don't have to wait for us to start distributing. You can start distributing as soon as you attach our standard copyleft to the files. (Ask for our advice on how to do this.)

The assignment contract we normally use has a clause that permits you to use your code in proprietary programs, on 30 days' notice. (The 30 days' notice is there because, through a legal technicality, it would improve our position in a suit against a hoarder.) Although we believe that proprietary software is wrong, we include this clause because it would serve no purpose to ask you to promise not to do it. You're giving us a gift in the first place.

You don't need to invoke this clause in order to distribute copies as free software under the GNU GPL, since everyone is allowed to do that.

* Releasing it yourself.

You can release a program yourself under copyleft distribution terms such as the

GNU GPL. (In order to accept the program as GNU software, we would have to be happy with your choice of terms.) This does not

require a contract between you and the FSF, but we would appreciate having a signed piece of paper to confirm your decision.

If someone violates your terms--for example, if someone gets a copy from us, and uses it as a basis for a proprietary product in violation of the terms--we cannot sue him. You would have to sue, or he gets away with it.

* Public domain.

If you put the program in the public domain, we prefer to have a signed piece of paper--a disclaimer of rights--from you confirming this. If the program is not very important, we can do without one; the worst that could happen is that we might some day be forced to stop using it.

The law says that anyone can copyright a modified version of the public domain work. (This doesn't restrict the original, which remains in the public domain; only the changes are copyrighted.) If we make extensive changes,
we will probably do this and add our usual copyleft. If we make small changes, we will leave the version we distribute in the public domain.

* What about your employer?

If you are employed to do programming, or have made an agreement with your employer that says it owns programs you write, we need a signed piece of paper from your employer disclaiming rights to the program. It should be signed by a vice president or general manager of the company. If you can't get at them, it is almost as good to find someone who signs licenses for software that is purchased. Here is a sample wording:

Digital Simulation Corporation hereby disclaims all copyright interest in the program "sample.el" (a program to direct assemblers to make passes at compilers under GNU Emacs) written by Hugh Hacker.

<signature of Mo Ghoul>, 1 April 1987

Mo Ghoul, President of Vice, Digital Simulation Corp.

The description of what the program does is just to make it clearer what the disclaimer covers.

If

what you did was change an existing program, it should say this:

...in the changes and enhancements made by Hugh Hacker to the program "sample.el".

* Did anyone else contribute?

If someone else contributed more than a few lines here or there to the program, then that person too is an author, and that person too needs to sign papers just as you do. So may that person's employer. However, if his contribution is just a fraction of the whole work, it is satisfactory if he disclaims his own rights, even if you are assigning yours. (If just the minor contributors' work goes in the public domain, that doesn't leave much of a loophole for hoarders.)

If you incorporated packages which you found floating around as "public domain", we might still want to track down their authors, to get disclaimers to reassure us that they really are in the public domain. So keep track of what these packages are and who wrote them.

* A reminder:

In working on a project for GNU, DO NOT study and follow any Unix sources or other non-free software that might have any bearing on the project. Don't refer to them at all, unless you are forced to for non-GNU reasons.

It is not considered a serious problem if you have read Unix sources or other non-free source code in the past for other purposes, provided you don't copy anything in particular from them. However, referring to them while you do the work could cause us legal problems later.

Description:

realpath, canonical_file_name: Provide canonical absolute file name

Files:

lib/canonicalize-lgpl.c

m4/canonicalize.m4

m4/double-slash-root.m4

Depends-on:

extensions

stdlib

nocrash

alloca-opt [test \$HAVE_CANONICALIZE_FILE_NAME = 0 || test \$REPLACE_CANONICALIZE_FILE_NAME = 1]

errno [test \$HAVE_CANONICALIZE_FILE_NAME = 0 || test \$REPLACE_CANONICALIZE_FILE_NAME = 1]

lstat [test \$HAVE_CANONICALIZE_FILE_NAME = 0 || test \$REPLACE_CANONICALIZE_FILE_NAME = 1]

malloca [test \$HAVE_CANONICALIZE_FILE_NAME = 0 || test \$REPLACE_CANONICALIZE_FILE_NAME = 1]

memmove [test \$HAVE_CANONICALIZE_FILE_NAME = 0 || test


```
$REPLACE_CANONICALIZE_FILE_NAME = 1]
pathmax      [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
readlink     [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
sys_stat     [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
```

configure.ac:

```
gl_CANONICALIZE_LGPL
if
  test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1; then
  AC_LIBOBJ([canonicalize-lgpl])
fi
gl_MODULE_INDICATOR([canonicalize-lgpl])
gl_STDLIB_MODULE_INDICATOR([canonicalize_file_name])
gl_STDLIB_MODULE_INDICATOR([realpath])
```

Makefile.am:

Include:

<stdlib.h>

License:

LGPLv2+

Maintainer:

all

Please email the following information to assign@gnu.org, and we
will send you the assignment form for your past and future changes.

Please use your full legal name (in ASCII characters) as the subject
line of the message.

REQUEST: SEND FORM FOR PAST AND FUTURE CHANGES

[What is the name of the program or package you're contributing to?]

[Did you copy any files or text written by someone else in these changes?
Even if that material is free software, we need to know about it.]

[Do you have an employer who might have a basis to claim to own
your changes? Do you attend a school which might make such a claim?]

[For the copyright registration, what country are you a citizen of?]

[What year were you born?]

[Please write your email address here.]

[Please write your postal address here.]

[Which files have you changed so far, and which new files have you written so far?]

Description:

Provide the GNU General Public License version 3.0 in Texinfo format.

Files:

doc/gpl-3.0.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:

unmodifiable license text

Maintainer:

all

Description:

Ensure getcwd(NULL, 0) returns a buffer allocated by the malloc() function.

Files:

lib/getcwd-lgpl.c

m4/getcwd.m4

Depends-on:

unistd

strdup [test \$REPLACE_GETCWD = 1]

configure.ac:

gl_FUNC_GETCWD_LGPL

```
if test $REPLACE_GETCWD = 1; then
  AC_LIBOBJ([getcwd-lgpl])
fi
gl_UNISTD_MODULE_INDICATOR([getcwd])
```

Makefile.am:

Include:
<unistd.h>

License:
LGPLv2+

Maintainer:

Eric Blake

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lib/dirname-lgpl.c

lib/basename-lgpl.c

lib/stripdash.c

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Depends-on:

dosname

double-slash-root

malloc-posix

stdbool

configure.ac:

gl_DIRNAME_LGPL

Makefile.am:

lib_SOURCES += dirname-lgpl.c basename-lgpl.c stripslash.c

Include:

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tests/test-update-copyright.sh

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abs_aux_dir=`cd "\$ac\_aux\_dir"; pwd`

AC_SUBST([abs_aux_dir])

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and a brief idea of what it does.}
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when it starts in an interactive mode:

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Gnomovision version
69, Copyright (C) @var{year} @var{name of author}
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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
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@example
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

Ty Coon, President of Vice

@end example

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Files:

tests/test-canonicalize-lgpl.c

tests/signature.h

tests/null-ptr.h

tests/macros.h

Depends-on:

ignore-value

same-inode

symlink

configure.ac:

Makefile.am:

TESTS += test-canonicalize-lgpl

check_PROGRAMS += test-canonicalize-lgpl

Description:

Help make libraries relocatable, that is, to allow them to function properly when copied to an arbitrary directory.

Files:

doc/relocatable.texi
lib/relocatable.h
lib/relocatable.c
lib/relocatable.valgrind
m4/relocatable-lib.m4

Depends-on:

strdup

configure.ac:

```
gl_RELOCATABLE_LIBRARY
if test $RELOCATABLE = yes; then
  AC_LIBOBJ([relocatable])
fi
```

Makefile.am:

DEFS += -DNO_XMALLOC

Include:

"relocatable.h"

License:

GPLv2+

Maintainer:

Ben Pfaff

Description:

Provide the GNU Lesser General Public License version 3.0 in Texinfo format.

Files:

doc/lgpl-3.0.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:

unmodifiable license text

Maintainer:

all

Description:

Update an FSF copyright year list to include the current year.

Files:

build-aux/update-copyright

Depends-on:

configure.ac:

Makefile.am:

Include:

License:

GPLed build tool

Maintainer:

Jim Meyering

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Version 3, 29 June 2007

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<signature of Ty Coon>, 1 April 1989

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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.

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

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

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

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

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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

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

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

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Version 3, 29 June 2007

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

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

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1. Source Code.

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

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

The

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

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

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```
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```

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Files:

tests/test-getcwd-lgpl.c
tests/signature.h
tests/macros.h

Depends-on:

configure.ac:

Makefile.am:

TESTS += test-getcwd-lgpl
check_PROGRAMS += test-getcwd-lgpl
test_getcwd-lgpl_LDADD = \$(LDADD) \$(LIBINTL)

Description:

Locating a program in PATH (LGPLed version).

Files:

lib/findprog.h
lib/findprog.c
lib/findprog-lgpl.c
m4/findprog.m4
m4/eaccess.m4

Depends-on:

stdbool
strdup
concat-filename
unistd

configure.ac:

gl_FINDPROG
gl_MODULE_INDICATOR([findprog-lgpl])

Makefile.am:

lib_SOURCES += findprog.h findprog.c

Include:

"findprog.h"

License:

LGPLv2+

Maintainer:

all

1.196 harfbuzz 1.8.8-r0

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1.197 perl 5.24.4-r0

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```
#ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H

#include "x86-bsd-nat.h"

/* Helper functions. See definitions. */
extern void amd64bsd_fetch_inferior_registers (struct regcache *regcache,
        int regnum);
extern
void amd64bsd_store_inferior_registers (struct regcache *regcache,
        int regnum);

/* A prototype *BSD/AMD64 target. */

template<typename BaseTarget>
class amd64_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
void fetch_registers (struct regcache *regcache, int regnum) override
{ amd64bsd_fetch_inferior_registers (regcache, regnum); }

void store_registers (struct regcache *regcache, int regnum) override
{ amd64bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */

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

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

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

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

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

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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

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

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

In addition,

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or

distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that

system;

it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each

version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR

PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

Copyright (C) <year>

<name of author>

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

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

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, 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!

@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/}

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

@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

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

@c hence no sectioning command or @node.

@display

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

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

@end display

@heading Preamble

The GNU General Public License is a free, copyleft license for

software and other kinds of works.

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licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program---to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

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

To protect your rights, we need to prevent others from denying you these rights

or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for

individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

@heading TERMS AND CONDITIONS

@enumerate 0

@item Definitions.

``This License" refers to version 3 of the GNU General Public License.

``Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

``The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as ``you". ``Licensees" and ``recipients" may be individuals or organizations.

To ``modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a ``modified version" of the earlier work or a work ``based on" the earlier work.

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

To ``propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To “convey” a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

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

@item Source Code.

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

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

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

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

such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

@item Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

@item Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with

respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

@item Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

@item
Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

@enumerate a
@item

The work must carry prominent notices stating that you modified it, and giving a relevant date.

@item
The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to ``keep intact all notices".

@item
You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

@item

If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

@end enumerate

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

@item Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

@enumerate a

@item

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

@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.

@end enumerate

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A ``User Product" is either (1) a ``consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, ``normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

``Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User

Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

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@c man end

```
BEGIN {
  FS="\"";
  print "/* ==> Do not modify this file!! \" \
  "-*- buffer-read-only: t -*- vi" \
  ":set ro:";
  print " It is created automatically by copying.awk.";
  print " Modify copying.awk instead. <== */";
  print ""
  print "#include \"defs.h\""
  print "#include \"command.h\""
  print "#include \"gdbcmd.h\""
  print ""
  print "static void show_copying_command (const char *, int);"
  print ""
  print "static void show_warranty_command (const char *, int);"
  print ""
  print "static void";
  print "show_copying_command (const char *ignore, int from_tty)";
  print "{";
}
NR == 1,/^[ ]*15\ Disclaimer of Warranty\.[ ]*$/ {
  if ($0 ~ //)
  {
    printf " printf_filtered (\"\\n\");\\n";
  }
  else if ($0 !~ /^[ ]*15\ Disclaimer of Warranty\.[ ]*$/)
  {
    printf " printf_filtered (\"";
    for (i = 1; i < NF; i++)
    printf "%s\\n", $i;
    printf "%s\\n\");\\n", $NF;
  }
}
```

```

    }
}
/^[ ]*15\. Disclaimer of Warranty\.[ ]*$/ {

    print "}";
    print "";
    print "static void";
    print "show_warranty_command (const char *ignore, int from_tty)";
    print "{";
}
/^[ ]*15\. Disclaimer of Warranty\.[ ]*$/, /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/ {
    if (! ($0 ~ /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/))
    {
        printf " printf_filtered (\\"";
        for (i = 1; i < NF; i++)
            printf "%s\\\\" , $i;
        printf "%s\\n\\");\\n", $NF;
    }
}
END {
    print "}";
    print "";
    print "void"
    print "_initialize_copying (void)";
    print "{";
    print " add_cmd (\\"copying\\", no_set_class, show_copying_command,";
    print " _(\\"Conditions for redistributing copies of GDB.\\");";
    print " &showlist);";
    print " add_cmd (\\"warranty\\", no_set_class, show_warranty_command,";
    print " _(\\"Various kinds of warranty you do not have.\\");";
    print " &showlist);";
    print "";
    print " /* For old-timers, allow \\"info copying\\", etc. */";
    print " add_info (\\"copying\\", show_copying_command,";

    print " _(\\"Conditions for redistributing copies of GDB.\\");";
    print " add_info (\\"warranty\\", show_warranty_command,";
    print " _(\\"Various kinds of warranty you do not have.\\");";
    print "}";
}
/* BSD Kernel Data Access Library (libkvm) interface.

```

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along with this program. If not, see <<http://www.gnu.org/licenses/>>. */

```
#define _KMEMUSER
#include "defs.h"
#include "cli/cli-cmds.h"
#include "command.h"
#include "frame.h"
#include "regcache.h"
#include "target.h"
#include "value.h"
#include "gdbcore.h" /* for get_exec_file */
#include
"gdbthread.h"

#include <fcntl.h>
#include <kvm.h>
#ifdef HAVE_NLIST_H
#include <nlist.h>
#endif
#include <paths.h>
#include "readline/readline.h"
#include <sys/param.h>
#include <sys/proc.h>
#ifdef HAVE_SYS_USER_H
#include <sys/user.h>
#endif

#include "bsd-kvm.h"

/* Kernel memory device file. */
static const char *bsd_kvm_corefile;

/* Kernel memory interface descriptor. */
static kvm_t *core_kd;

/* Address of process control block. */
static struct pcb *bsd_kvm_paddr;

/* Pointer to architecture-specific function that reconstructs the
```

```

    register state from PCB and supplies it to REGCACHE. */
static int (*bsd_kvm_supply_pcb)(struct regcache *regcache, struct pcb *pcb);

/* This is the ptid we use while we're connected to kvm. The kvm
   target currently doesn't export any view of the running processes,
   so this represents the kernel task. */
static ptid_t bsd_kvm_ptid;

/* The libkvm target. */

static const target_info bsd_kvm_target_info = {
    "kvm",
    N_("Kernel
    memory interface"),
    N_("Use a kernel virtual memory image as a target.\n\
    Optionally specify the filename of a core dump."),
};

class bsd_kvm_target final : public target_ops
{
public:
    bsd_kvm_target ()
    { this->to_stratum = process_stratum; }

    const target_info &info () const override
    { return bsd_kvm_target_info; }

    void close () override;

    void fetch_registers (struct regcache *, int) override;
    enum target_xfer_status xfer_partial (enum target_object object,
        const char *annex,
        gdb_byte *readbuf,
        const gdb_byte *writebuf,
        ULONGEST offset, ULONGEST len,
        ULONGEST *xfered_len) override;

    void files_info () override;
    bool thread_alive (ptid_t ptid) override;
    const char *pid_to_str (ptid_t) override;

    bool has_memory () override { return true; }
    bool has_stack () override { return true; }
    bool has_registers () override { return true; }
};

/* Target ops for libkvm interface. */
static bsd_kvm_target bsd_kvm_ops;

```

```

static void
bsd_kvm_target_open
(const char *arg, int from_tty)
{
    char errbuf[_POSIX2_LINE_MAX];
    char *execfile = NULL;
    kvm_t *temp_kd;
    char *filename = NULL;

    target_preopen (from_tty);

    if (arg)
    {
        char *temp;

        filename = tilde_expand (arg);
        if (filename[0] != '/')
        {
            temp = concat (current_directory, "/", filename, (char *)NULL);
            xfree (filename);
            filename = temp;
        }
    }

    execfile = get_exec_file (0);
    temp_kd = kvm_openfiles (execfile, filename, NULL,
        write_files ? O_RDWR : O_RDONLY, errbuf);
    if (temp_kd == NULL)
        error (("s"), errbuf);

    bsd_kvm_corefile = filename;
    unpush_target (&bsd_kvm_ops);
    core_kd = temp_kd;
    push_target (&bsd_kvm_ops);

    add_thread_silent (bsd_kvm_ptid);
    inferior_ptid = bsd_kvm_ptid;

    target_fetch_registers (get_current_regcache (), -1);

    reinit_frame_cache ();
    print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

void
bsd_kvm_target::close ()
{

```

```

if (core_kd)
{
    if (kvm_close (core_kd)
== -1)
warning (("%%s"), kvm_geterr(core_kd));
    core_kd = NULL;
}

inferior_ptid = null_ptid;
discard_all_inferiors ();
}

static LONGEST
bsd_kvm_xfer_memory (CORE_ADDR addr, ULONGEST len,
    gdb_byte *readbuf, const gdb_byte *writebuf)
{
    ssize_t nbytes = len;

    if (readbuf)
        nbytes = kvm_read (core_kd, addr, readbuf, nbytes);
    if (writebuf && nbytes > 0)
        nbytes = kvm_write (core_kd, addr, writebuf, nbytes);
    return nbytes;
}

enum target_xfer_status
bsd_kvm_target::xfer_partial (enum target_object object,
    const char *annex, gdb_byte *readbuf,
    const gdb_byte *writebuf,
    ULONGEST offset, ULONGEST len, ULONGEST *xfered_len)
{
    switch (object)
    {
        case TARGET_OBJECT_MEMORY:
        {
            LONGEST ret = bsd_kvm_xfer_memory (offset, len, readbuf, writebuf);

            if (ret < 0)
                return TARGET_XFER_E_IO;
            else if (ret == 0)
                return TARGET_XFER_EOF;
            else
            {
                *xfered_len = (ULONGEST) ret;
                return TARGET_XFER_OK;
            }
        }
    }
}

```

```

}

default:
    return TARGET_XFER_E_IO;
}
}

void
bsd_kvm_target::files_info ()
{
    if (bsd_kvm_corefile && strcmp (bsd_kvm_corefile, _PATH_MEM) != 0)
        printf_filtered (_("\tUsing the kernel crash dump %s.\n"),
            bsd_kvm_corefile);
    else
        printf_filtered (_("\tUsing the currently running kernel.\n"));
}

/* Fetch process control block at address PADDR. */

static int
bsd_kvm_fetch_pcb (struct regcache *regcache, struct pcb *paddr)
{
    struct pcb pcb;

    if (kvm_read (core_kd, (unsigned long) paddr, &pcb, sizeof pcb) == -1)
        error ("%s", kvm_geterr (core_kd));

    gdb_assert (bsd_kvm_supply_pcb);
    return bsd_kvm_supply_pcb (regcache, &pcb);
}

void
bsd_kvm_target::fetch_registers (struct regcache *regcache, int regnum)
{
    struct nlist nl[2];

    if (bsd_kvm_paddr)
    {
        bsd_kvm_fetch_pcb (regcache, bsd_kvm_paddr);
        return;
    }

    /* On dumping core, BSD kernels store the faulting context (PCB)
       in the variable "dumppcb". */
    memset (nl, 0,
        sizeof nl);
    nl[0].n_name = "_dumppcb";

```



```

if (kvm_nlist (core_kd, nl) == -1)
    error (("%%s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
{
    /* Found dumppcb. If it contains a valid context, return
    immediately. */
    if (bsd_kvm_fetch_pcb (regcache, (struct pcb *) nl[0].n_value))
return;
}

/* Traditional BSD kernels have a process proc0 that should always
be present. The address of proc0's PCB is stored in the variable
"proc0paddr". */

memset (nl, 0, sizeof nl);
nl[0].n_name = "_proc0paddr";

if (kvm_nlist (core_kd, nl) == -1)
    error (("%%s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
{
    struct pcb *paddr;

    /* Found proc0paddr. */
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
error (("%%s"), kvm_geterr (core_kd));

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
}

#ifdef HAVE_STRUCT_THREAD_TD_PCB
/* In FreeBSD kernels for 5.0-RELEASE and later, the PCB no longer

lives in `struct proc' but in `struct thread'. The `struct
thread' for the initial thread for proc0 can be found in the
variable "thread0". */

memset (nl, 0, sizeof nl);
nl[0].n_name = "_thread0";

if (kvm_nlist (core_kd, nl) == -1)
    error (("%%s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
{

```

```

    struct pcb *paddr;

    /* Found thread0. */
    nl[0].n_value += offsetof (struct thread, td_pcb);
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
        error ("%s", kvm_geterr (core_kd));

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
}
#endif

/* i18n: PCB == "Process Control Block". */
error (_("Cannot find a valid PCB"));
}

/* Kernel memory interface commands. */
struct cmd_list_element *bsd_kvm_cmdlist;

static void
bsd_kvm_cmd (const char *arg, int fromtty)
{
    /* ??? Should this become an alias for "target kvm"? */
}

#ifndef HAVE_STRUCT_THREAD_TD_PCB

static void
bsd_kvm_proc_cmd (const char *arg,
                  int fromtty)
{
    CORE_ADDR addr;

    if (arg == NULL)
        error_no_arg (_("proc address"));

    if (core_kd == NULL)
        error (_("No kernel memory image."));

    addr = parse_and_eval_address (arg);
#ifdef HAVE_STRUCT_LWP
    addr += offsetof (struct lwp, l_addr);
#else
    addr += offsetof (struct proc, p_addr);
#endif

    if (kvm_read (core_kd, addr, &bsd_kvm_paddr, sizeof bsd_kvm_paddr) == -1)

```

```

    error ("%s", kvm_geterr (core_kd));

target_fetch_registers (get_current_regcache (), -1);

reinit_frame_cache ();
print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

#endif

static void
bsd_kvm_pcb_cmd (const char *arg, int fromtty)
{
    if (arg == NULL)
        /* i18n: PCB == "Process Control Block". */
        error_no_arg (_("pcb address"));

    if (core_kd == NULL)
        error (_("No kernel memory image."));

    bsd_kvm_paddr = (struct pcb *) (u_long) parse_and_eval_address (arg);

    target_fetch_registers (get_current_regcache (), -1);

    reinit_frame_cache ();
    print_stack_frame
    (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

bool
bsd_kvm_target::thread_alive (ptid_t ptid)
{
    return true;
}

const char *
bsd_kvm_target::pid_to_str (ptid_t ptid)
{
    {
        static char buf[64];
        xsnprintf (buf, sizeof buf, "<kvm>");
        return buf;
    }
}

/* Add the libkvm interface to the list of all possible targets and
   register CUPPLY_PCB as the architecture-specific process control
   block interpreter. */

void

```

```

bsd_kvm_add_target (int (*supply_pcb)(struct regcache *, struct pcb *))
{
    gdb_assert (bsd_kvm_supply_pcb == NULL);
    bsd_kvm_supply_pcb = supply_pcb;

    add_target (bsd_kvm_target_info, bsd_kvm_target_open);

    add_prefix_cmd ("kvm", class_obscure, bsd_kvm_cmd, _("\
Generic command for manipulating the kernel memory interface."),
        &bsd_kvm_cmdlist, "kvm ", 0, &cmdlist);

#ifdef HAVE_STRUCT_THREAD_TD_PCB
    add_cmd ("proc", class_obscure, bsd_kvm_proc_cmd,
        _("Set current context from proc address"), &bsd_kvm_cmdlist);
#endif
    add_cmd ("pcb", class_obscure,
        bsd_kvm_pcb_cmd,
        /* i18n: PCB == "Process Control Block". */
        _("Set current context from pcb address"), &bsd_kvm_cmdlist);

    /* Some notes on the ptid usage on this target.

```

The pid field represents the kvm inferior instance. Currently, we don't support multiple kvm inferiors, but we start at 1 anyway. The lwp field is set to != 0, in case the core wants to refer to the whole kvm inferior with ptid(1,0,0).

If kvm is made to export running processes as gdb threads, the following form can be used:

```

ptid (1, 1, 0) -> kvm inferior 1, in kernel
ptid (1, 1, 1) -> kvm inferior 1, process 1
ptid (1, 1, 2) -> kvm inferior 1, process 2
ptid (1, 1, n) -> kvm inferior 1, process n */

```

```

bsd_kvm_ptid = ptid_t (1, 1, 0);
}
/* Native-dependent code for x86 BSD's.

```

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```
#ifndef X86_BSD_NAT_H
#define X86_BSD_NAT_H

#include "x86-nat.h"

/* Low level x86 XSAVE info. */
extern size_t x86bsd_xsave_len;

/* A prototype *BSD/x86 target. */

template<typename BaseTarget>
class x86bsd_nat_target
: public x86_nat_target<BaseTarget>
{
    using base_class = x86_nat_target<BaseTarget>;
public:
#ifdef HAVE_PT_GETDBREGS
    void mourn_inferior () override
    {
        x86_cleanup_dregs ();
        base_class::mourn_inferior ();
    }
#endif /* HAVE_PT_GETDBREGS */
};

#endif /* x86-bsd-nat.h */

/* Native-dependent code for modern i386 BSD's.
```

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```
#ifndef I386_BSD_NAT_H
#define I386_BSD_NAT_H

/* Helper functions. See definitions. */
extern void i386bsd_fetch_inferior_registers (struct regcache *regcache,
                                             int regnum);
extern void i386bsd_store_inferior_registers
(struct regcache *regcache,
 int regnum);

/* A prototype *BSD/i386 target. */

template<typename BaseTarget>
class i386_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
void fetch_registers (struct regcache *regcache, int regnum) override
{ i386bsd_fetch_inferior_registers (regcache, regnum); }

void store_registers (struct regcache *regcache, int regnum) override
{ i386bsd_store_inferior_registers (regcache, regnum); }
};
```

```
#endif /* i386-bsd-nat.h */
```

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Version 2, June 1991

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Version 3, 29 June 2007

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The

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section 10

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```
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```

```
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```

```
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```

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Version 3, 29 June 2007

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```
#!/usr/bin/env python
```

```
# Copyright (C) 2011-2018 Free Software Foundation, Inc.
```

```
#
```

```
# This file is part of GDB.
```

```
#
```

```
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```

```
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```

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```

```
"""copyright.py
```

This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!

A useful command to review

the output is:

```
% filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
```

This removes the bulk of the changes which are most likely to be correct.

"""

```
import datetime
```

```
import os
```

```
import os.path
```

```
import subprocess
```

```
def get_update_list():
```

```
    """Return the list of files to update.
```

```
    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!). The names of
    the files are relative to that root directory.
```

```
    """
```

```
    result = []
```

```
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
```

```
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
```

```
            for dirname in dirs:
```

```
                reldirname = "%s/%s" % (root, dirname)
```

```
                if (dirname in EXCLUDE_ALL_LIST
```

```
                    or reldirname in EXCLUDE_LIST
```

```
                    or reldirname in NOT_FSF_LIST
```

```
                    or reldirname in BY_HAND):
```

```
                    # Prune this directory from our search list.
```

```
                    dirs.remove(dirname)
```

```
            for filename in files:
```

```
                relpath = "%s/%s" % (root, filename)
```

```
                if (filename in EXCLUDE_ALL_LIST
```

```
                    or relpath in EXCLUDE_LIST
```

```
                    or relpath in NOT_FSF_LIST
```

```
                    or relpath in BY_HAND):
```

```
                    # Ignore this file.
```

```
                    pass
```

```
                else:
```

```
                    result.append(relpath)
```

```
    return result
```

```
def update_files(update_list):
```

```
    """Update the copyright header of the files in the given list.
```

We use gnu lib's update-copyright script for that.

```
"""
```

```
# We want to use year intervals in the copyright notices, and
# all years should be collapsed to one single year interval,
# even if there are "holes" in the list of years found in the
# original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'
```

```
# Perform the update, and save the output in a string.
```

```
update_cmd
```

```
= ['bash', 'gdb/gnulib/import/extra/update-copyright']
```

```
update_cmd += update_list
```

```
p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
```

```
stderr=subprocess.STDOUT)
```

```
update_out = p.communicate()[0]
```

```
# Process the output. Typically, a lot of files do not have
```

```
# a copyright notice :-(. The update-copyright script prints
```

```
# a well defined warning when it did not find the copyright notice.
```

```
# For each of those, do a sanity check and see if they may in fact
```

```
# have one. For the files that are found not to have one, we filter
```

```
# the line out from the output, since there is nothing more to do,
```

```
# short of looking at each file and seeing which notice is appropriate.
```

```
# Too much work! (~4,000 files listed as of 2012-01-03).
```

```
update_out = update_out.splitlines()
```

```
warning_string = ': warning: copyright statement not found'
```

```
warning_len = len(warning_string)
```

```
for line in update_out:
```

```
    if line.endswith('\n'):
```

```
        line = line[:-1]
```

```
    if line.endswith(warning_string):
```

```
        filename = line[:-warning_len]
```

```
        if may_have_copyright_notice(filename):
```

```
            print line
```

```
    else:
```

```
        # Unrecognized file format. !?!
```

```
        print "*** " + line
```

```
def may_have_copyright_notice(filename):
```

```
    """Check that the given file does not seem to have a copyright notice.
```

The filename is relative to the root directory.

This function assumes that the current working directory is that root directory.

The algorithm is fairly crude, meaning that it might return some false positives. I do not think it will return any false negatives... We might improve this function to handle more complex cases later...

```
"""
```

```
# For now, it may have a copyright notice if we find the word
# "Copyright" at the (reasonable) start of the given file, say
# 50 lines...
MAX_LINES = 50
```

```
fd = open(filename)
```

```
lineno = 1
for line in fd:
    if 'Copyright' in line:
        return True
    lineno += 1
    if lineno > 50:
        return False
return False
```

```
def main ():
    """The main subprogram."""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)
```

```
update_list = get_update_list()
update_files (update_list)
```

```
# Remind the user that some files need to be updated by HAND...
```

```
if MULTIPLE_COPYRIGHT_HEADERS:
    print
    print("\033[31m"
          "REMINDER: Multiple copyright headers must be updated by hand:"
          "\033[0m")
    for filename in MULTIPLE_COPYRIGHT_HEADERS:
        print " ", filename
```

```
if BY_HAND:
    print
    print "\033[31mREMINDER: The following files must be updated by hand." \
          "\033[0m"
    for filename in BY_HAND:
```

```

    print " ", filename

#####
#
#
    Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
#####

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (
    'gdb/nat/glibc_thread_db.h',
    'gdb/CONTRIBUTE',
    'gdb/gnulib/import'
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all
# files named COPYING to be left untouched.

EXCLUDE_ALL_LIST = (
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",
    "fdl.texi", "gpl.texi", "aclocal.m4",
)

# The list of files to update by hand.
BY_HAND = (
    # Nothing at the moment :-).
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (
    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",

```

)

The list of file which have a copyright, but not head by the FSF.

Filenames are relative to the root directory.

NOT_FSF_LIST = (

"gdb/exc_request.defs",

"gdb/gdbtk",

"gdb/testsuite/gdb.gdbtk/",

"sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",

"sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",

"sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",

"sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",

"sim/arm/armopts.h",

"sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",

"sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",

"sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",

"sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",

"sim/arm/arminit.c",

"sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",

"sim/common/cgen-accfp.c",

"sim/mips/m16run.c", "sim/mips/sim-main.c",

"sim/moxie/moxie-gdb.dts",

Not a single file in sim/ppc/ appears to be copyright FSF :-(.

"sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",

"sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",

"sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",

"sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",

"sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",

"sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",

"sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",

"sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",

"sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",

"sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",

"sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",

"sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",

"sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",

"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",

"sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",

"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",

"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",

"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",

"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",

"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",

"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",

"sim/ppc/bits.c", "sim/ppc/idecode_fields.h",

"sim/ppc/hw_memory.c",

"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",

"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",


```

"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h",
"sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
    main()

```

1.205 pcre 8.42-r0

1.205.1 Available under license :

PCRE LICENCE

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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

THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,
Cambridge, England.

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PCRE JUST-IN-TIME COMPILATION SUPPORT

Written by: Zoltan Herczeg
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1.206 icu 62.1-r0

1.206.1 Available under license :

```
## *-makefile-*  
## Copyright (C) 2016 and later: Unicode, Inc. and others.  
## License & terms of use: http://www.unicode.org/copyright.html  
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)  
## Copyright (c) 1999-2013, International Business Machines Corporation and  
## others. All Rights Reserved.  
  
## 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

1.207 python-pygobject 3.28.3-r0

1.207.1 Available under license :

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Version 2.1, February 1999

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

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included without
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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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 *
 *   @(#)queue.h   8.5 (Berkeley) 8/20/94
 */
```

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*

*

* stdio.c

* by Mark Gates <mgates@nlanr.net>

```
* and Ajay Tirumalla <tirumala@ncsa.uiuc.edu>
* -----
* input and output numbers, converting with kilo, mega, giga
* ----- */
```

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- * `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

xmlns:xi="http://www.w3.org/2001/XInclude"

xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '
'))"/>

<xsl:text>
</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '
')"/>

<xsl:if test="translate(\$rest, '	 ', '')">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text" select="\$rest"/>

```

    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of
        select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

- Local variables:
- mode: sgml
- End:

-->

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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```
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```

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From 7461a3de38b66edbe2f5593f9bdab9f2704d32bc Mon Sep 17 00:00:00 2001
From: Hongxu Jia <hongxu.jia@windriver.com>
Date: Wed, 17 Aug 2016 04:06:34 -0400
Subject: [PATCH] grub module explicitly keeps symbole .module_license

While using oe-core toolchain to strip grub module 'all_video.mod', it stripped symbol table:

```
-----  
root@localhost:~# objdump -t all_video.mod
```

```
all_video.mod: file format elf64-x86-64
```

SYMBOL TABLE:

no symbols

It caused grub to load module all_video failed.

```
grub> insmod all_video  
error: no symbol table.
```

Tweak strip option to keep symbol .module_license could workaround the issue.

```
root@localhost:~# objdump -t all_video.mod
```

```
all_video.mod: file format elf64-x86-64
```

SYMBOL TABLE:

```
0000000000000000 l d .text 0000000000000000 .text  
0000000000000000 l d .data 0000000000000000 .data  
0000000000000000 l d .module_license 0000000000000000 .module_license  
0000000000000000 l d  
.bss 0000000000000000 .bss  
0000000000000000 l d .moddeps 0000000000000000 .moddeps  
0000000000000000 l d .modname 0000000000000000 .modname
```

Upstream-Status: Pending

Signed-off-by: Hongxu Jia <hongxu.jia@windriver.com>

grub-core/genmod.sh.in | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

Index: grub-2.02/grub-core/genmod.sh.in

=====

```
--- grub-2.02.orig/grub-core/genmod.sh.in
+++ grub-2.02/grub-core/genmod.sh.in
@@ -56,7 +56,7 @@ if test x@TARGET_APPLE_LINKER@ != x1; th
if test x@platform@ != xemu; then
    @TARGET_STRIP@ --strip-unneeded \
    -K grub_mod_init -K grub_mod_fini \
- -K _grub_mod_init -K _grub_mod_fini \
+ -K _grub_mod_init -K _grub_mod_fini -K .module_license \
    -R .note.gnu.gold-version -R .note.GNU-stack \
    -R .note -R .comment -R .ARM.exidx $tmpfile || exit 1
fi
```

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J. Bruce Fields <bfields@umich.edu>
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1.215 liburcu 0.10.1-r0

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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:

<http://lists.casi.polymtl.ca/pipermail/ltt-dev/2009-May/001584.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
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```
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```

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```

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*/
#include "lxc/lxclock.h"
#include "config.h"
#include <unistd.h>
#include <signal.h>
#include <stdio.h>
#include <sys/types.h>
#include <sys/wait.h>
#include <stdlib.h>

```

```

#define mycontainername "lxctest.sem"
#define
TIMEOUT_SECS 3

static void test_two_locks(void)
{
    struct lxc_lock *l;
    pid_t pid;
    int ret, status;
    int p[2];
    char c;

    if (pipe(p) < 0)
        exit(1);

    if ((pid = fork()) < 0)
        exit(1);

    if (pid == 0) {
        if (read(p[0], &c, 1) < 0) {
            perror("read");
            exit(1);
        }

        l = lxc_newlock("/tmp", "lxctest-sem");
        if (!l) {
            fprintf(stderr, "%d: child: failed to create lock\n", __LINE__);
            exit(1);
        }

        if (lxclock(l, 0) < 0) {
            fprintf(stderr, "%d: child: failed to grab lock\n", __LINE__);
            exit(1);
        }

        fprintf(stderr, "%d: child: grabbed lock\n", __LINE__);
        exit(0);
    }

    l = lxc_newlock("/tmp", "lxctest-sem");
    if (!l) {
        fprintf(stderr, "%d: failed to create lock\n", __LINE__);
        exit(1);
    }

    if (lxclock(l, 0) < 0) {
        fprintf(stderr, "%d: failed to get lock\n", __LINE__);
    }

```



```

    exit(1);
}

if (write(p[1], "a", 1) < 0) {
    perror("write");
    exit(1);
}

sleep(3);

ret = waitpid(pid, &status, WNOHANG);
if
(ret == pid) { // task exited
    if (WIFEXITED(status)) {
        printf("%d exited normally with exit code %d\n", pid,
            WEXITSTATUS(status));
        if (WEXITSTATUS(status) != 0)
            exit(1);
    } else
        printf("%d did not exit normally\n", pid);
    return;
} else if (ret < 0) {
    perror("waitpid");
    exit(1);
}

kill(pid, SIGKILL);
wait(&status);
close(p[1]);
close(p[0]);
lxcunlock(l);
lxc_putlock(l);
}

int main(int argc, char *argv[])
{
    int ret;
    struct lxc_lock *lock;

    lock = lxc_newlock(NULL, NULL);
    if (!lock) {
        fprintf(stderr, "%d: failed to get unnamed lock\n", __LINE__);
        exit(1);
    }

    ret = lxclock(lock, 0);
    if (ret) {
        fprintf(stderr, "%d: failed to take unnamed lock (%d)\n", __LINE__, ret);

```

```

exit(1);
}

ret = lxcunlock(lock);
if (ret) {
    fprintf(stderr, "%d: failed to put unnamed lock (%d)\n", __LINE__, ret);
    exit(1);
}

lxc_putlock(lock);

lock = lxc_newlock("/var/lib/lxc", mycontainername);
if (!lock)
{
    fprintf(stderr, "%d: failed to get lock\n", __LINE__);
    exit(1);
}

struct stat sb;
char *pathname = RUNTIME_PATH "/lxc/lock/var/lib/lxc/";

ret = stat(pathname, &sb);
if (ret != 0) {
    fprintf(stderr, "%d: filename %s not created\n", __LINE__,
        pathname);
    exit(1);
}

lxc_putlock(lock);

test_two_locks();

fprintf(stderr, "all tests passed\n");

exit(ret);
}
NOT PROVIDED

```

1.222 kbd 2.0.4-r0

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[illegible]

rJ

~~vvvvnnn8||8`j

```
"UUUUUD0`0`00`0`>><~<~<0`0<~~<$ff$6f`0|nlll0xx000lllllll0|x00f8l8vv00`0``0`00`f<<f000000`000`||0p00  
00x8`x8x<l x8`x000xxxx|p00000000`0``0`00`x00|x0xff|ff<ff<lffflbhxbhbhxh`<ff>x00000xxflxl f``bf8ll8ff|`xxff|lfxf  
px0000xxx0l8lx00x0fx`~~~~x`0xx8l00x|v``|ffxx|vx8l``v|lvff0p000xx`flxp00000xxxff|v|vf`|x0|004vx0ll8l|0d0000  
00000000000vx0xlllll|`lllo`|lllllllllllll`o lllllllo`o llllllllllllllllllllllllllllll000xx00xx08ld`8d`d8x000xx`8x8l08l|8l8x|  
x||<ll>~3ff3||pp0000p0`p0p|0f{;x0d``8ll8|f3f~~~~x00x0`f<`0x0xxxvxxxxxx>x<ff<x`0bxbxbx8lbxbllbx b`0x000x0x  
000xxx000xx000xlfflv`0xx0xxxxxxvxxxxl88l>ll`0x0xxx0x0x`|f|`|0x|v0x|v8lx|vvx|vllx|v8l8x|v~~~~xvp`0xxxxxxxxx  
`0p00x0p00x pp00xp00xvp|xv`0xx0xx0xxxvxxxx0000|`0v0vxvv0|`xllx`|
```

#

```
# PC Screen (console) Fonts - psf1 header
```

#

```

0      leshort      0x0436      psf screen font data
>2    byte         0          256 characters, no index
>2    byte         1          512 characters, no index
>2 byte 2 256 characters, Unicode index
>2 byte 3 512 characters, Unicode index
>2 byte 4 256 characters, Unicode level 2 index
>2 byte 5 512 characters, Unicode level 2 index
>3 byte x 8x%d

```

#

```
# PC Screen (console) Fonts - psf2 header
```

#

```
0    long 0x864ab572 psf2 screen font data
>12 long&1 1 with Unicode index
>16 long x \b,%d glyphs
>28 long x \b,%dx
>24 long x \b%d
```

rJ

~~~~~l||888||88<<<<~f~~FBBBB~BBBBBb~<fBBf<2xx<fff<~?3?000pcccccgZ<<Z>><~<ffffff{||'8l|8|<~<~<~<~<~<0`0\$ff\$88|||88<<<fff\$llllll||0f8l|8vv000`0000000f<<f~00`||8x~|0`|<|<|<|0000|||~x00`0~`00`|||8lfff|fff<ff<1fff  
fflfbhxhbfbbhxh`<ff:<<xfllxllf~~~~bf8l|8fff|`||fff|lff|'8|~Z<|8|l|888lffff<<0`<0000000<p8<<8l00x|v`x|fff||<|v|8  
ld``v|x`lvfff8<f<`flxlf8<ffffff|fff|`v|v`|p|000006vfff<l|88l~0fpppv8l3a``a3>ffffff;>c`c>6<>ff;ff<>ff;0<>ff;6  
<>ff;<f`f<<6>c`c>ff>c`c>0>c`c>ff8<<f8<`08<cc6cccc66cccc030>03n;~w6ffffffg6>cccc>cc>cccc>0>cccc>ffffff;0  
ffffff;cccccc?<cc6cccc6cccccccc>~620x000s~f<ff|bfoff~p|88l8l8l8Dfbhxhbf8D8l|8:l|8|fff|l|8x|v8l|x|v8l|8l|~|v><l  
v6666666666666666DDDDDDDDDUUUUUUUUwwwwww`0x|v8x|vvx|vx|vx|v00666666666666666666`L8x|vn8x|vvl

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## 1.224 python 2.7.16-r1

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

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History and License

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

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| Release                         | Derived from | Year      | Owner | GPL compatible? |
| +=====+=====+=====+=====+=====+ |              |           |       |                 |
| 0.9.0 thru 1.2                  | n/a          | 1991-1995 | CWI   | yes             |
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|                |           |           |            |         |         |
|----------------|-----------|-----------|------------|---------|---------|
| 1.3 thru 1.5.2 | 1.2       | 1995-1999 | CNRI       | yes     |         |
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| 1.6            | 1.5.2     | 2000      | CNRI       | no      |         |
| +-----+        | +-----+   | +-----+   | +-----+    | +-----+ | +-----+ |
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| 2.0            | 1.6       | 2000      | BeOpen.com | no      |         |
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| 2.1            | 2.0+1.6.1 | 2001      | PSF        | no      |         |
| +-----+        | +-----+   | +-----+   | +-----+    | +-----+ | +-----+ |
| 2.0.1          | 2.0+1.6.1 | 2001      | PSF        | yes     |         |
| +-----+        | +-----+   | +-----+   | +-----+    | +-----+ | +-----+ |
| 2.1.1          | 2.1+2.0.1 | 2001      | PSF        | yes     |         |
| +-----+        | +-----+   | +-----+   | +-----+    | +-----+ | +-----+ |
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## Mersenne Twister

-----

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program  
for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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## Sockets

-----

The `:mod:`socket`` module uses the  
functions, `:func:`getaddrinfo``, and  
`:func:`getnameinfo``, which are coded in separate source files from the WIDE  
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MD5 message digest algorithm

-----

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L. Peter Deutsch  
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of

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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.  
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.  
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.  
1999-05-03 lpd Original version.

Asynchronous socket services

-----

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Cookie  
management  
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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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-----

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Select kqueue

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 \*/

```
#ifndef UV_BSD_H
#define UV_BSD_H
```

```
#define UV_PLATFORM_FS_EVENT_FIELDS \
    uv__io_t event_watcher; \
```

```
#define UV_IO_PRIVATE_PLATFORM_FIELDS \
    int rcount; \
    int wcount; \
```

```
#define UV_HAVE_KQUEUE 1
```

```
#endif /* UV_BSD_H */
```

Files: \*

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Files: getopt.c

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## 1.231 make 4.2.1-r0

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```
#include "makeint.h"
#include "os.h"
#include "filedef.h"
#include "dep.h"
#include "variable.h"
#include "job.h"
#include "commands.h"
#include "rule.h"
#include "debug.h"
#include "getopt.h"
```

```

#include <assert.h>
#ifdef _AMIGA
#
# include <dos/dos.h>
# include <proto/dos.h>
#endif
#ifdef WINDOWS32
# include <windows.h>
# include <io.h>
# include "pathstuff.h"
# include "sub_proc.h"
# include "w32err.h"
#endif
#ifdef __EMX__
# include <sys/types.h>
# include <sys/wait.h>
#endif
#ifdef HAVE_FCNTL_H
# include <fcntl.h>
#endif

#ifdef _AMIGA
int __stack = 20000; /* Make sure we have 20K of stack space */
#endif
#ifdef VMS
int vms_use_mcr_command = 0;
int vms_always_use_cmd_file = 0;
int vms_gnv_shell = 0;
int vms_legacy_behavior = 0;
int vms_comma_separator = 0;
int vms_unix_simulation = 0;
int vms_report_unix_paths = 0;

/* Evaluates if a VMS environment option is set, only look at first character */
static int
get_vms_env_flag (const char *name, int default_value)
{
    char * value;
    char x;

    value = getenv (name);
    if (value == NULL)
        return default_value;

    x = toupper (value[0]);
    switch (x)
    {

```

```

    case 'l':
    case 'T':
    case 'E':
        return 1;
        break;
    case 'O':
    case 'F':
    case 'D':
        return 0;
    }
}
#endif

#if defined HAVE_WAITPID || defined HAVE_WAIT3
# define HAVE_WAIT_NOHANG
#endif

#ifndef HAVE_UNISTD_H
int chdir ();
#endif
#ifndef STDC_HEADERS
# ifndef sun          /* Sun has an incorrect decl in a header. */
void exit (int) __attribute__((noreturn));
# endif
double atof ();
#endif

static void clean_jobserver (int status);
static void print_data_base (void);
static void print_version (void);
static void decode_switches (int argc, const char **argv, int env);
static void decode_env_switches (const char *envvar, unsigned int len);
static struct variable *define_makeflags (int all, int makefile);
static char *quote_for_env (char *out, const char *in);
static void initialize_global_hash_tables (void);

/* The structure that describes an accepted command switch. */

struct command_switch
{
    int c;          /* The switch character. */

    enum            /* Type of the value. */
    {
        flag,      /* Turn int flag on. */
        flag_off,  /* Turn int flag off. */
        string,     /* One string per invocation. */
    }
};

```

```

    strlist,          /* One string per switch. */
    filename,        /* A string containing a file name. */
    positive_int,     /* A positive integer. */
    floating,         /* A floating-point number (double). */
    ignore            /* Ignored. */
} type;

void *value_ptr; /* Pointer to the value-holding variable. */

unsigned int env:1; /* Can come from MAKEFLAGS. */
unsigned int toenv:1; /* Should be put in MAKEFLAGS. */
unsigned int no_makefile:1; /* Don't propagate when remaking makefiles. */

const void *noarg_value; /* Pointer to value used if no arg given. */
const void *default_value; /* Pointer
to default value. */

const char *long_name; /* Long option name. */
};

/* True if C is a switch value that corresponds to a short option. */

#define short_option(c) ((c) <= CHAR_MAX)

/* The structure used to hold the list of strings given
in command switches of a type that takes strlist arguments. */

struct stringlist
{
    const char **list; /* Nil-terminated list of strings. */
    unsigned int idx; /* Index into above. */
    unsigned int max; /* Number of pointers allocated. */
};

/* The recognized command switches. */

/* Nonzero means do extra verification (that may slow things down). */

int verify_flag;

/* Nonzero means do not print commands to be executed (-s). */

int silent_flag;

/* Nonzero means just touch the files
that would appear to need remaking (-t) */

```

```

int touch_flag;

/* Nonzero means just print what commands would need to be executed,
   don't actually execute them (-n). */

int
just_print_flag;

/* Print debugging info (--debug). */

static struct stringlist *db_flags = 0;
static int debug_flag = 0;

int db_level = 0;

/* Synchronize output (--output-sync). */

char *output_sync_option = 0;

#ifdef WINDOWS32
/* Suspend make in main for a short time to allow debugger to attach */

int suspend_flag = 0;
#endif

/* Environment variables override makefile definitions. */

int env_overrides = 0;

/* Nonzero means ignore status codes returned by commands
   executed to remake files. Just treat them all as successful (-i). */

int ignore_errors_flag = 0;

/* Nonzero means don't remake anything, just print the data base
   that results from reading the makefile (-p). */

int print_data_base_flag = 0;

/* Nonzero means don't remake anything; just return a nonzero status
   if the specified targets are not up to date (-q). */

int question_flag = 0;

/* Nonzero means do not use any of the builtin rules (-r) / variables (-R).
   */

int no_builtin_rules_flag = 0;

```

```

int no_builtin_variables_flag = 0;

/* Nonzero means keep going even if remaking some file fails (-k). */

int keep_going_flag;
int default_keep_going_flag = 0;

/* Nonzero means check symlink mtimes. */

int check_symlink_flag = 0;

/* Nonzero means print directory before starting and when done (-w). */

int print_directory_flag = 0;

/* Nonzero means ignore print_directory_flag and never print the directory.
   This is necessary because print_directory_flag is set implicitly. */

int inhibit_print_directory_flag = 0;

/* Nonzero means print version information. */

int print_version_flag = 0;

/* List of makefiles given with -f switches. */

static struct stringlist *makefiles = 0;

/* Size of the stack when we started. */

#ifdef SET_STACK_SIZE
struct rlimit stack_limit;
#endif

/* Number of job slots for parallelism. */

unsigned int job_slots;

#define INVALID_JOB_SLOTS (-1)
static unsigned int
    master_job_slots = 0;
static int arg_job_slots = INVALID_JOB_SLOTS;

static const int default_job_slots = INVALID_JOB_SLOTS;

/* Value of job_slots that means no limit. */

```

```

static const int inf_jobs = 0;

/* Authorization for the jobserver. */

static char *jobserver_auth = NULL;

/* Handle for the mutex used on Windows to synchronize output of our
   children under -O. */

char *sync_mutex = NULL;

/* Maximum load average at which multiple jobs will be run.
   Negative values mean unlimited, while zero means limit to
   zero load (which could be useful to start infinite jobs remotely
   but one at a time locally). */
#ifdef NO_FLOAT
double max_load_average = -1.0;
double default_load_average = -1.0;
#else
int max_load_average = -1;
int default_load_average = -1;
#endif

/* List of directories given with -C switches. */

static struct stringlist *directories = 0;

/* List of include directories given with -I switches. */

static struct stringlist
*include_directories = 0;

/* List of files given with -o switches. */

static struct stringlist *old_files = 0;

/* List of files given with -W switches. */

static struct stringlist *new_files = 0;

/* List of strings to be eval'd. */
static struct stringlist *eval_strings = 0;

/* If nonzero, we should just print usage and exit. */

static int print_usage_flag = 0;

/* If nonzero, we should print a warning message

```

```

for each reference to an undefined variable. */

int warn_undefined_variables_flag;

/* If nonzero, always build all targets, regardless of whether
they appear out of date or not. */

static int always_make_set = 0;
int always_make_flag = 0;

/* If nonzero, we're in the "try to rebuild makefiles" phase. */

int rebuilding_makefiles = 0;

/* Remember the original value of the SHELL variable, from the environment. */

struct variable shell_var;

/* This character introduces a command: it's the first char on the line. */

char
cmd_prefix = '\t';

/* The usage output. We write it this way to make life easier for the
translators, especially those trying to translate to right-to-left
languages like Hebrew. */

static const char *const usage[] =
{
    N_("Options:\n"),
    N_("
-b, -m                Ignored for compatibility.\n"),
    N_("
-B, --always-make      Unconditionally make all targets.\n"),
    N_("
-C DIRECTORY, --directory=DIRECTORY\n\
                        Change to DIRECTORY before doing anything.\n"),
    N_("
-d                    Print lots of debugging information.\n"),
    N_("
--debug[=FLAGS]        Print various types of debugging information.\n"),
    N_("
-e, --environment-overrides\n\
                        Environment variables override makefiles.\n"),
    N_("
--eval=STRING          Evaluate STRING as a makefile statement.\n"),
    N_("

```



```

-f FILE, --file=FILE, --makefile=FILE\n\
    Read FILE as a makefile.\n"),
    N_("\
-h, --help          Print this message and exit.\n"),
    N_("\
-i, --ignore-errors  Ignore errors from recipes.\n"),
    N_("\
-I DIRECTORY, --include-dir=DIRECTORY\n\
    Search DIRECTORY for included makefiles.\n"),
    N_("\
-j [N], --jobs[=N]   Allow N jobs at once; infinite jobs with no arg.\n"),
    N_("\
-k, --keep-going     Keep going when some targets can't be made.\n"),
    N_("\
-l [N], --load-average[=N], --max-load[=N]\n\
    Don't start multiple jobs unless load is below N.\n"),
    N_("\
-L, --check-symlink-times  Use the latest mtime between symlinks and target.\n"),
    N_("\
-n, --just-print, --dry-run, --recon\n\
    Don't actually run any recipe; just print them.\n"),
    N_("\
-o FILE, --old-file=FILE, --assume-old=FILE\n\
    Consider FILE to be very old and don't remake it.\n"),
    N_("\
-O[TYPE], --output-sync[=TYPE]\n\
    Synchronize output of parallel jobs by TYPE.\n"),
    N_("\
-p, --print-data-base  Print make's internal database.\n"),
    N_("\
-q, --question         Run no recipe; exit status says if up to date.\n"),
    N_("\
-r, --no-builtin-rules  Disable the built-in implicit rules.\n"),
    N_("\
-R, --no-builtin-variables  Disable the built-in variable settings.\n"),
    N_("\
-s, --silent, --quiet  Don't echo recipes.\n"),
    N_("\
-S, --no-keep-going, --stop\n\
    Turns off -k.\n"),
    N_("\
-t, --touch            Touch targets instead of remaking them.\n"),
    N_("\
--trace              Print tracing information.\n"),
    N_("\
-v, --version         Print the version number of make and exit.\n"),
    N_("\

```

```

-w, --print-directory    Print the
current directory.\n"),
    N_("\"
--no-print-directory      Turn off -w, even if it was turned on implicitly.\n"),
    N_("\"
-W FILE, --what-if=FILE, --new-file=FILE, --assume-new=FILE\n\
    Consider FILE to be infinitely new.\n"),
    N_("\"
--warn-undefined-variables Warn when an undefined variable is referenced.\n"),
    NULL
};

```

/\* The table of command switches.

Order matters here: this is the order MAKEFLAGS will be constructed.

So be sure all simple flags (single char, no argument) come first. \*/

```

static const struct command_switch switches[] =
{
    { 'b', ignore, 0, 0, 0, 0, 0, 0, 0 },
    { 'B', flag, &always_make_set, 1, 1, 0, 0, 0, "always-make" },
    { 'd', flag, &debug_flag, 1, 1, 0, 0, 0, 0 },
#ifdef WINDOWS32
    { 'D', flag, &suspend_flag, 1, 1, 0, 0, 0, "suspend-for-debug" },
#endif
    { 'e', flag, &env_overrides, 1, 1, 0, 0, 0, "environment-overrides" },
    { 'h', flag, &print_usage_flag, 0, 0, 0, 0, 0, "help" },
    { 'i', flag, &ignore_errors_flag, 1, 1, 0, 0, 0, "ignore-errors" },
    { 'k', flag, &keep_going_flag, 1, 1, 0, 0, 0, &default_keep_going_flag,
        "keep-going" },
    { 'L', flag, &check_symlink_flag, 1, 1, 0, 0, 0, "check-symlink-times" },
    { 'm', ignore, 0, 0, 0, 0, 0, 0, 0 },
    { 'n', flag, &just_print_flag, 1, 1, 1, 0, 0, "just-print" },
    { 'p', flag, &print_data_base_flag, 1, 1, 0, 0, 0, "print-data-base" },
    { 'q', flag, &question_flag, 1, 1, 1, 0, 0, "question" },
    { 'r', flag, &no_builtin_rules_flag, 1, 1, 0, 0, 0, "no-builtin-rules" },
    { 'R', flag, &no_builtin_variables_flag, 1, 1, 0, 0, 0,
        "no-builtin-variables" },
    { 's', flag, &silent_flag, 1, 1, 0, 0, 0, "silent" },
    { 'S', flag_off, &keep_going_flag, 1, 1, 0, 0, 0, &default_keep_going_flag,
        "no-keep-going" },
    { 't', flag, &touch_flag, 1, 1, 1, 0, 0, "touch" },
    { 'v', flag, &print_version_flag, 1, 1, 0, 0, 0, "version" },
    { 'w', flag, &print_directory_flag,
1, 1, 0, 0, 0, "print-directory" },

```

/\* These options take arguments. \*/

```

{ 'C', filename, &directories, 0, 0, 0, 0, 0, "directory" },

```

```

    { 'f', filename, &makefiles, 0, 0, 0, 0, "file" },
    { 'I', filename, &include_directories, 1, 1, 0, 0, 0,
      "include-dir" },
    { 'j', positive_int, &arg_job_slots, 1, 1, 0, &inf_jobs, &default_job_slots,
      "jobs" },
#ifdef NO_FLOAT
    { 'l', floating, &max_load_average, 1, 1, 0, &default_load_average,
      &default_load_average, "load-average" },
#else
    { 'l', positive_int, &max_load_average, 1, 1, 0, &default_load_average,
      &default_load_average, "load-average" },
#endif
    { 'o', filename, &old_files, 0, 0, 0, 0, "old-file" },
    { 'O', string, &output_sync_option, 1, 1, 0, "target", 0, "output-sync" },
    { 'W', filename, &new_files, 0, 0, 0, 0, "what-if" },

    /* These are long-style options. */
    { CHAR_MAX+1, strlist, &db_flags, 1, 1, 0, "basic", 0, "debug"
    },
    { CHAR_MAX+2, string, &jobserver_auth, 1, 1, 0, 0, "jobserver-auth" },
    { CHAR_MAX+3, flag, &trace_flag, 1, 1, 0, 0, "trace" },
    { CHAR_MAX+4, flag, &inhibit_print_directory_flag, 1, 1, 0, 0, 0,
      "no-print-directory" },
    { CHAR_MAX+5, flag, &warn_undefined_variables_flag, 1, 1, 0, 0, 0,
      "warn-undefined-variables" },
    { CHAR_MAX+6, strlist, &eval_strings, 1, 0, 0, 0, "eval" },
    { CHAR_MAX+7, string, &sync_mutex, 1, 1, 0, 0, "sync-mutex" },
    { 0, 0, 0, 0, 0, 0, 0, 0, 0 }
  };

  /* Secondary long names for options. */

  static struct option long_option_aliases[] =
  {
    { "quiet",      no_argument,      0, 's' },
    { "stop",       no_argument,      0, 'S' },
    { "new-file",   required_argument, 0, 'W' },
    { "assume-new", required_argument, 0, 'W' },
    { "assume-old", required_argument, 0, 'o' },
    { "max-load",   optional_argument, 0, 'l' },
    { "dry-run",
      no_argument,      0, 'n' },
    { "recon",      no_argument,      0, 'n' },
    { "makefile",   required_argument, 0, 'f' },
  };

  /* List of goal targets. */

```

```

static struct goaldep *goals, *lastgoal;

/* List of variables which were defined on the command line
(or, equivalently, in MAKEFLAGS). */

struct command_variable
{
    struct command_variable *next;
    struct variable *variable;
};
static struct command_variable *command_variables;

/* The name we were invoked with. */

#ifdef WINDOWS32
/* On MS-Windows, we chop off the .exe suffix in 'main', so this
cannot be 'const'. */
char *program;
#else
const char *program;
#endif

/* Our current directory before processing any -C options. */

char *directory_before_chdir;

/* Our current directory after processing all -C options. */

char *starting_directory;

/* Value of the MAKELEVEL variable at startup (or 0). */

unsigned int makelevel;

/*
Pointer to the value of the .DEFAULT_GOAL special variable.
The value will be the name of the goal to remake if the command line
does not override it. It can be set by the makefile, or else it's
the first target defined in the makefile whose name does not start
with '!. */

struct variable * default_goal_var;

/* Pointer to structure for the file .DEFAULT
whose commands are used for any file that has none of its own.
This is zero if the makefiles do not define .DEFAULT. */

struct file *default_file;

```

```

/* Nonzero if we have seen the magic '.POSIX' target.
   This turns on pedantic compliance with POSIX.2. */

int posix_pedantic;

/* Nonzero if we have seen the '.SECONDEXPANSION' target.
   This turns on secondary expansion of prerequisites. */

int second_expansion;

/* Nonzero if we have seen the '.ONESHELL' target.
   This causes the entire recipe to be handed to SHELL
   as a single string, potentially containing newlines. */

int
one_shell;

/* One of OUTPUT_SYNC_* if the "--output-sync" option was given. This
   attempts to synchronize the output of parallel jobs such that the results
   of each job stay together. */

int output_sync = OUTPUT_SYNC_NONE;

/* Nonzero if the "--trace" option was given. */

int trace_flag = 0;

/* Nonzero if we have seen the '.NOTPARALLEL' target.
   This turns off parallel builds for this invocation of make. */

int not_parallel;

/* Nonzero if some rule detected clock skew; we keep track so (a) we only
   print one warning about it during the run, and (b) we can print a final
   warning at the end of the run. */

int clock_skew_detected;

/* Map of possible stop characters for searching strings. */
#ifdef UCHAR_MAX
# define UCHAR_MAX 255
#endif
unsigned short stopchar_map[UCHAR_MAX + 1] = {0};

/* If output-sync is enabled we'll collect all the output generated due to
   options, while reading makefiles, etc. */

```

```

struct output make_sync;

/*
Mask of signals that are being caught with fatal_error_signal. */

#ifdef POSIX
sigset_t fatal_signal_set;
#else
# ifdef HAVE_SIGSETMASK
int fatal_signal_mask;
# endif
#endif

#if !HAVE_DECL_BSD_SIGNAL && !defined bsd_signal
# if !defined HAVE_SIGACTION
#  define bsd_signal signal
# else
typedef RETSIGTYPE (*bsd_signal_ret_t) (int);

static bsd_signal_ret_t
bsd_signal (int sig, bsd_signal_ret_t func)
{
    struct sigaction act, oact;
    act.sa_handler = func;
    act.sa_flags = SA_RESTART;
    sigemptyset (&act.sa_mask);
    sigaddset (&act.sa_mask, sig);
    if (sigaction (sig, &act, &oact) != 0)
        return SIG_ERR;
    return oact.sa_handler;
}
# endif
#endif

static void
initialize_global_hash_tables (void)
{
    init_hash_global_variable_set ();
    strcache_init ();
    init_hash_files ();
    hash_init_directories ();
    hash_init_function_table ();
}

/* This character map locate stop chars when parsing GNU makefiles.
Each element is true if

```

we should stop parsing on that character. \*/

```
static void
initialize_stopchar_map (void)
{
    int i;

    stopchar_map[(int)'\0'] = MAP_NUL;
    stopchar_map[(int) '#'] = MAP_COMMENT;
    stopchar_map[(int) ';'] = MAP_SEMI;
    stopchar_map[(int) '='] = MAP_EQUALS;
    stopchar_map[(int) ':'] = MAP_COLON;
    stopchar_map[(int) '%'] = MAP_PERCENT;
    stopchar_map[(int) '|'] = MAP_PIPE;
    stopchar_map[(int) '.'] = MAP_DOT | MAP_USERFUNC;
    stopchar_map[(int) ','] = MAP_COMMA;
    stopchar_map[(int) '$'] = MAP_VARIABLE;

    stopchar_map[(int) '-'] = MAP_USERFUNC;
    stopchar_map[(int) '_'] = MAP_USERFUNC;

    stopchar_map[(int) ' '] = MAP_BLANK;
    stopchar_map[(int) '\t'] = MAP_BLANK;

    stopchar_map[(int) '/'] = MAP_DIRSEP;
    #if defined(VMS)
    stopchar_map[(int) ':'] |= MAP_DIRSEP;
    stopchar_map[(int) '|'] |= MAP_DIRSEP;
    stopchar_map[(int) '>'] |= MAP_DIRSEP;
    #elif defined(HAVE_DOS_PATHS)
    stopchar_map[(int) '\\'] |= MAP_DIRSEP;
    #endif

    for (i = 1; i <= UCHAR_MAX; ++i)
    {
        if (isspace (i) && NONE_SET (stopchar_map[i], MAP_BLANK))
            /* Don't mark blank characters as newline characters. */
            stopchar_map[i] |= MAP_NEWLINE;
        else if (isalnum (i))
            stopchar_map[i] |= MAP_USERFUNC;
    }
}

static const char *
expand_command_line_file (const char *name)
{
    const char *cp;
```

```

char *expanded = 0;

if (name[0] == '\0')
    O (fatal, NILF, _("empty string invalid as file name"));

if (name[0] == '~')
{
    expanded = tilde_expand (name);
    if (expanded && expanded[0] != '\0')
        name = expanded;
}

/* This is also done in parse_file_seq, so this is redundant
   for names read from makefiles. It is here for names passed
   on the command line. */
while (name[0] == '.' && name[1] == '/')
{
    name += 2;
    while (name[0] == '/')
        /* Skip following slashes: "../foo" is "foo", not "/foo". */
        ++name;
}

if (name[0] == '\0')
{
    /* Nothing
else but one or more "./", maybe plus slashes! */
    name = "./";
}

cp = strcache_add (name);

free (expanded);

return cp;
}

/* Toggle -d on receipt of SIGUSR1. */

#ifdef SIGUSR1
static RETSIGTYPE
debug_signal_handler (int sig UNUSED)
{
    db_level = db_level ? DB_NONE : DB_BASIC;
}
#endif

static void

```



```

decode_debug_flags (void)
{
    const char **pp;

    if (debug_flag)
        db_level = DB_ALL;

    if (db_flags)
        for (pp=db_flags->list; *pp; ++pp)
        {
            const char *p = *pp;

            while (1)
            {
                switch (tolower (p[0]))
                {
                    case 'a':
                        db_level |= DB_ALL;
                        break;
                    case 'b':
                        db_level |= DB_BASIC;
                        break;
                    case 'i':
                        db_level |= DB_BASIC | DB_IMPLICIT;
                        break;
                    case 'j':
                        db_level |= DB_JOBS;
                        break;

                    case 'm':
                        db_level |= DB_BASIC | DB_MAKEFILES;
                        break;
                    case 'n':
                        db_level = 0;
                        break;
                    case 'v':
                        db_level |= DB_BASIC | DB_VERBOSE;
                        break;
                    default:
                        OS (fatal, NILF,
                            _("unknown debug level specification '%s'"), p);
                }

                while (*(++p) != '\0')
                    if (*p == ';' || *p == ' ')
                    {
                        ++p;
                        break;
                    }
            }
        }
    }

```

```

    }

    if (*p == '\0')
        break;
    }
}

if (db_level)
    verify_flag = 1;

if (! db_level)
    debug_flag = 0;
}

static void
decode_output_sync_flags (void)
{
#ifdef NO_OUTPUT_SYNC
    output_sync = OUTPUT_SYNC_NONE;
#else
    if (output_sync_option)
    {
        if (streq (output_sync_option, "none"))
            output_sync = OUTPUT_SYNC_NONE;
        else
            if (streq (output_sync_option, "line"))
                output_sync = OUTPUT_SYNC_LINE;
            else if (streq (output_sync_option, "target"))
                output_sync = OUTPUT_SYNC_TARGET;
            else if (streq (output_sync_option, "recurse"))
                output_sync = OUTPUT_SYNC_RECURSE;
            else
                OS (fatal, NILF,
                    _ ("unknown output-sync type '%s'"), output_sync_option);
    }
}

if (sync_mutex)
    RECORD_SYNC_MUTEX (sync_mutex);
#endif
}

#ifdef WINDOWS32

#endif

#ifdef NO_OUTPUT_SYNC

/* This is called from start_job_command when it detects that
   output_sync option is in effect. The handle to the synchronization
   mutex is passed, as a string, to sub-makes via the --sync-mutex

```

```

    command-line argument. */
void
prepare_mutex_handle_string (sync_handle_t handle)
{
    if (!sync_mutex)
    {
        /* Prepare the mutex handle string for our children. */
        /* 2 hex digits per byte + 2 characters for "0x" + null. */
        sync_mutex = xmalloc ((2 * sizeof
(sync_handle_t)) + 2 + 1);
        sprintf (sync_mutex, "0x%Ix", handle);
        define_makeflags (1, 0);
    }
}

#endif /* NO_OUTPUT_SYNC */

/*
 * HANDLE runtime exceptions by avoiding a requestor on the GUI. Capture
 * exception and print it to stderr instead.
 *
 * If ! DB_VERBOSE, just print a simple message and exit.
 * If DB_VERBOSE, print a more verbose message.
 * If compiled for DEBUG, let exception pass through to GUI so that
 * debuggers can attach.
 */
LONG WINAPI
handle_runtime_exceptions (struct _EXCEPTION_POINTERS *exinfo)
{
    PEXCEPTION_RECORD exrec = exinfo->ExceptionRecord;
    LPSTR cmdline = GetCommandLine ();
    LPSTR prg = strtok (cmdline, " ");
    CHAR errmsg[1024];
#ifdef USE_EVENT_LOG
    HANDLE hEventSource;
    LPTSTR lpszStrings[1];
#endif

    if (! ISDB (DB_VERBOSE))
    {
        sprintf (errmsg,
            _("%s: Interrupt/Exception caught (code = 0x%lx, addr = 0x%p)\n"),
            prg, exrec->ExceptionCode, exrec->ExceptionAddress);
        fprintf (stderr, errmsg);
        exit (255);
    }

    sprintf (errmsg,

```

```

    _("\nUnhandled exception filter called from program %s\nExceptionCode = %lx\nExceptionFlags =
    %lx\nExceptionAddress = 0x%p\n"),
    prg, exrec->ExceptionCode, exrec->ExceptionFlags,
    exrec->ExceptionAddress);

if (exrec->ExceptionCode == EXCEPTION_ACCESS_VIOLATION
    && exrec->NumberParameters >= 2)
    sprintf (&errmsg[strlen(errmsg)],
        (exrec->ExceptionInformation[0]
        ? _("Access violation: write operation at address 0x%p\n")
        : _("Access violation: read operation at address 0x%p\n")),
        (PVOID)exrec->ExceptionInformation[1]);

/* turn this on if we want to put stuff in the event log too */
#ifdef USE_EVENT_LOG
    hEventSource = RegisterEventSource (NULL, "GNU Make");
    lpszStrings[0] = errmsg;

    if (hEventSource != NULL)
    {
        ReportEvent (hEventSource,      /* handle of event
source */
            EVENTLOG_ERROR_TYPE, /* event type */
            0,                    /* event category */
            0,                    /* event ID */
            NULL,                 /* current user's SID */
            1,                    /* strings in lpszStrings */
            0,                    /* no bytes of raw data */
            lpszStrings,          /* array of error strings */
            NULL);                /* no raw data */

        (VOID) DeregisterEventSource (hEventSource);
    }
#endif

/* Write the error to stderr too */
fprintf (stderr, errmsg);

#ifdef DEBUG
    return EXCEPTION_CONTINUE_SEARCH;
#else
    exit (255);
    return (255); /* not reached */
#endif
}

/*
 * On WIN32 systems we don't have the luxury of a /bin directory that

```

\* is mapped globally to every drive mounted to the system. Since make could  
 \* be invoked from any drive, and we don't want to propagate  
 /bin/sh  
 \* to every single drive. Allow ourselves a chance to search for  
 \* a value for default shell here (if the default path does not exist).  
 \*/

```
int
find_and_set_default_shell (const char *token)
{
    int sh_found = 0;
    char *atoken = 0;
    const char *search_token;
    const char *tokend;
    PATH_VAR(sh_path);
    extern const char *default_shell;

    if (!token)
        search_token = default_shell;
    else
        search_token = atoken = xstrdup (token);

    /* If the user explicitly requests the DOS cmd shell, obey that request.
       However, make sure that's what they really want by requiring the value
       of SHELL either equal, or have a final path element of, "cmd" or
       "cmd.exe" case-insensitive. */
    tokend = search_token + strlen (search_token) - 3;
    if (((tokend == search_token
          || (tokend > search_token
              && (tokend[-1] == '/' || tokend[-1] == '\\)))
        && !strcasecmp (tokend, "cmd")))
        || ((tokend - 4 == search_token
            || (tokend - 4 > search_token
                && (tokend[-5] == '/' || tokend[-5] == '\\)))
            && !strcasecmp (tokend - 4, "cmd.exe")))
    {
        batch_mode_shell = 1;
        unixy_shell = 0;
        sprintf (sh_path, "%s", search_token);
        default_shell = xstrdup (w32ify (sh_path, 0));
        DB (DB_VERBOSE, (_("find_and_set_shell() setting default_shell = %s\n"),
                          default_shell));
        sh_found = 1;
    }
    else if (!no_default_sh_exe
        && (token == NULL || !strcmp (search_token, default_shell)))
    {
        /* no new information, path already set or known */
    }
}
```

```

    sh_found = 1;
}
else if (_access (search_token, 0) == 0)
{
    /* search token path was found */
    sprintf (sh_path, "%s", search_token);
    default_shell = xstrdup (w32ify (sh_path, 0));
    DB (DB_VERBOSE, (_("find_and_set_shell() setting default_shell = %s\n"),
        default_shell));
    sh_found = 1;

}
else
{
    char *p;
    struct variable *v = lookup_variable (STRING_SIZE_TUPLE ("PATH"));

    /* Search Path for shell */
    if (v && v->value)
    {
        char *ep;

        p = v->value;
        ep = strchr (p, PATH_SEPARATOR_CHAR);

        while (ep && *ep)
        {
            *ep = '\0';

            sprintf (sh_path, "%s/%s", p, search_token);
            if (_access (sh_path, 0) == 0)
            {
                default_shell = xstrdup (w32ify (sh_path, 0));
                sh_found = 1;
                *ep = PATH_SEPARATOR_CHAR;

                /* terminate loop */
                p += strlen (p);
            }
            else
            {
                *ep = PATH_SEPARATOR_CHAR;
                p = ++ep;
            }

            ep = strchr (p, PATH_SEPARATOR_CHAR);
        }
    }
}

```

```

        /* be sure to check last element of Path */
        if (p
&& *p)
        {
            sprintf (sh_path, "%s/%s", p, search_token);
            if (_access (sh_path, 0) == 0)
            {
                default_shell = xstrdup (w32ify (sh_path, 0));
                sh_found = 1;
            }
        }

        if (sh_found)
            DB (DB_VERBOSE,
                (_("find_and_set_shell() path search set default_shell = %s\n"),
                default_shell));
    }
}

/* naive test */
if (!unixy_shell && sh_found
    && (strstr (default_shell, "sh") || strstr (default_shell, "SH")))
{
    unixy_shell = 1;
    batch_mode_shell = 0;
}

#ifdef BATCH_MODE_ONLY_SHELL
    batch_mode_shell = 1;
#endif

free (atoken);

return (sh_found);
}
#endif /* WINDOWS32 */

#ifdef __MSDOS__
static void
msdos_return_to_initial_directory (void)
{
    if (directory_before_chdir)
        chdir (directory_before_chdir);
}
#endif /* __MSDOS__ */

static void
reset_jobserver

```

```

(void)
{
    jobserver_clear ();
    free (jobserver_auth);
    jobserver_auth = NULL;
}

#ifdef _AMIGA
int
main (int argc, char **argv)
#else
int
main (int argc, char **argv, char **envp)
#endif
{
    static char *stdin_nm = 0;
    int makefile_status = MAKE_SUCCESS;
    struct goaldep *read_files;
    PATH_VAR (current_directory);
    unsigned int restarts = 0;
    unsigned int syncing = 0;
    int argv_slots;
#ifdef WINDOWS32
    const char *unix_path = NULL;
    const char *windows32_path = NULL;

    SetUnhandledExceptionFilter (handle_runtime_exceptions);

    /* start off assuming we have no shell */
    unixy_shell = 0;
    no_default_sh_exe = 1;
#endif

    output_init (&make_sync);

    initialize_stopchar_map();

#ifdef SET_STACK_SIZE
    /* Get rid of any avoidable limit on stack size. */
    {
        struct rlimit rlim;

        /* Set the stack limit huge so that alloca does not fail. */
        if (getrlimit (RLIMIT_STACK, &rlim) == 0
            && rlim.rlim_cur > 0 && rlim.rlim_cur
            < rlim.rlim_max)
        {
            stack_limit = rlim;
        }
    }

```



```

    rlim.rlim_cur = rlim.rlim_max;
    setrlimit (RLIMIT_STACK, &rlim);
}
else
    stack_limit.rlim_cur = 0;
}
#endif

/* Needed for OS/2 */
initialize_main (&argc, &argv);

#ifdef MAKE_MAINTAINER_MODE
/* In maintainer mode we always enable verification. */
verify_flag = 1;
#endif

#if defined (__MSDOS__) && !defined (__POSIX_SOURCE)
/* Request the most powerful version of 'system', to
   make up for the dumb default shell. */
__system_flags = (__system_redirect
    | __system_use_shell
    | __system_allow_multiple_cmds
    | __system_allow_long_cmds
    | __system_handle_null_commands
    | __system_emulate_chdir);
#endif

/* Set up gettext/internationalization support. */
setlocale (LC_ALL, "");
/* The cast to void shuts up compiler warnings on systems that
   disable NLS. */
(void)bindtextdomain (PACKAGE, LOCALEDIR);
(void)textdomain (PACKAGE);

#ifdef POSIX
sigemptyset (&fatal_signal_set);
#define ADD_SIG(sig) sigaddset (&fatal_signal_set, sig)
#else
#ifdef HAVE_SIGSETMASK
fatal_signal_mask = 0;
#define ADD_SIG(sig) fatal_signal_mask |= sigmask (sig)
#else
#define ADD_SIG(sig) (void)sig
#endif
#endif
#endif

```

```

#define FATAL_SIG(sig) \
if (bsd_signal (sig, fatal_error_signal) == SIG_IGN) \
    bsd_signal (sig, SIG_IGN); \
else \
    ADD_SIG (sig);

#ifdef SIGHUP
    FATAL_SIG (SIGHUP);
#endif
#ifdef SIGQUIT
    FATAL_SIG (SIGQUIT);
#endif
FATAL_SIG (SIGINT);
FATAL_SIG (SIGTERM);

#ifdef __MSDOS__
/* Windows 9X delivers FP exceptions in child programs to their
   parent! We don't want Make to die
   when a child divides by zero,
   so we work around that lossage by catching SIGFPE. */
FATAL_SIG (SIGFPE);
#endif

#ifdef SIGDANGER
    FATAL_SIG (SIGDANGER);
#endif
#ifdef SIGXCPU
    FATAL_SIG (SIGXCPU);
#endif
#ifdef SIGXFSZ
    FATAL_SIG (SIGXFSZ);
#endif

#undef FATAL_SIG

/* Do not ignore the child-death signal. This must be done before
   any children could possibly be created; otherwise, the wait
   functions won't work on systems with the SVR4 ECHILD brain
   damage, if our invoker is ignoring this signal. */

#ifdef HAVE_WAIT_NOHANG
# if defined SIGCHLD
    (void) bsd_signal (SIGCHLD, SIG_DFL);
# endif
# if defined SIGCLD && SIGCLD != SIGCHLD
    (void) bsd_signal (SIGCLD, SIG_DFL);
# endif
#endif

```

```

output_init (NULL);

/* Figure out where this program lives. */

if (argv[0] == 0)
    argv[0] = (char *)"";
if (argv[0][0] == '\0')
    program = "make";
else
    {
        program = strrchr (argv[0], '/');
#ifdef __MSDOS__
    || defined(__EMX__)
        if (program == 0)
            program = strrchr (argv[0], '\\');
        else
            {
                /* Some weird environments might pass us argv[0] with
                   both kinds of slashes; we must find the rightmost. */
                char *p = strrchr (argv[0], '\\');
                if (p && p > program)
                    program = p;
            }
        if (program == 0 && argv[0][1] == ':')
            program = argv[0] + 1;
#endif
#ifdef WINDOWS32
        if (program == 0)
            {
                /* Extract program from full path */
                program = strrchr (argv[0], '\\');
                if (program)
                    {
                        int argv0_len = strlen (program);
                        if (argv0_len > 4 && streq (&program[argv0_len - 4], ".exe"))
                            /* Remove .exe extension */
                            program[argv0_len - 4] = '\0';
                    }
            }
#endif
#ifdef VMS
        set_program_name (argv[0]);
        program = program_name;
        {
            const char
*shell;
            char pwdbuf[256];

```

```

char *pwd;
shell = getenv ("SHELL");
if (shell != NULL)
    vms_gnv_shell = 1;

/* Need to know if CRTL set to report UNIX paths. Use getcwd as
   it works on all versions of VMS. */
pwd = getcwd(pwdbuf, 256);
if (pwd[0] == '/')
    vms_report_unix_paths = 1;

vms_use_mcr_command = get_vms_env_flag ("GNV$MAKE_USE_MCR", 0);

vms_always_use_cmd_file = get_vms_env_flag ("GNV$MAKE_USE_CMD_FILE", 0);

/* Legacy behavior is on VMS is older behavior that needed to be
   changed to be compatible with standard make behavior.
   For now only completely disable when running under a Bash shell.
   TODO: Update VMS built in recipes and macros to not need this
   behavior, at which time the default may change. */
vms_legacy_behavior = get_vms_env_flag ("GNV$MAKE_OLD_VMS",

    !vms_gnv_shell);

/* VMS was changed to use a comma separator in the past, but that is
   incompatible with built in functions that expect space separated
   lists. Allow this to be selectively turned off. */
vms_comma_separator = get_vms_env_flag ("GNV$MAKE_COMMA",
    vms_legacy_behavior);

/* Some Posix shell syntax options are incompatible with VMS syntax.
   VMS requires double quotes for strings and escapes quotes
   differently. When this option is active, VMS will try
   to simulate Posix shell simulations instead of using
   VMS DCL behavior. */
vms_unix_simulation = get_vms_env_flag ("GNV$MAKE_SHELL_SIM",
    !vms_legacy_behavior);

}
if (need_vms_symbol () && !vms_use_mcr_command)
    create_foreign_command (program_name, argv[0]);
#else
    if (program == 0)
        program = argv[0];
    else
        ++program;
#endif
}

```

```

/* Set up to access user data (files). */
user_access ();

initialize_global_hash_tables ();

/* Figure out where we are. */

#ifdef WINDOWS32
if (getcwd_fs (current_directory, GET_PATH_MAX) == 0)
#else
if (getcwd (current_directory, GET_PATH_MAX) == 0)
#endif
{
#ifdef HAVE_GETCWD
perror_with_name ("getcwd", "");
#else
OS (error, NILF, "getwd: %s", current_directory);
#endif
current_directory[0] = '\0';
directory_before_chdir = 0;
}
else
directory_before_chdir = xstrdup (current_directory);

#ifdef __MSDOS__
/* Make sure we will return to the initial directory, come what may. */
atexit (msdos_return_to_initial_directory);
#endif

/* Initialize the special variables. */
define_variable_cname (".VARIABLES", "", o_default, 0)->special = 1;
/* define_variable_cname (".TARGETS", "", o_default, 0)->special = 1; */
define_variable_cname
(".RECIPEPREFIX", "", o_default, 0)->special = 1;
define_variable_cname (".SHELLFLAGS", "-c", o_default, 0);
define_variable_cname (".LOADED", "", o_default, 0);

/* Set up .FEATURES
Use a separate variable because define_variable_cname() is a macro and
some compilers (MSVC) don't like conditionals in macros. */
{
const char *features = "target-specific order-only second-expansion"
" else-if shortest-stem undefine oneshell"
#ifdef NO_ARCHIVES
" archives"
#endif
#ifdef MAKE_JOBSERVER

```

```

        " jobserver"
#endif
#ifndef NO_OUTPUT_SYNC
        " output-sync"
#endif
#ifdef MAKE_SYMLINKS
        " check-symlink"
#endif
#ifdef HAVE_GUILLE
        " guile"
#endif
#ifdef MAKE_LOAD
        " load"
#endif
;

define_variable_cname (".FEATURES", features,
o_default, 0);
}

/* Configure GNU Guile support */
guile_gmake_setup (NILF);

/* Read in variables from the environment. It is important that this be
done before $(MAKE) is figured out so its definitions will not be
from the environment. */

#ifndef _AMIGA
{
    unsigned int i;

    for (i = 0; envp[i] != 0; ++i)
    {
        struct variable *v;
        const char *ep = envp[i];
        /* By default, export all variables culled from the environment. */
        enum variable_export export = v_export;
        unsigned int len;

        while (! STOP_SET (*ep, MAP_EQUALS))
            ++ep;

        /* If there's no equals sign it's a malformed environment. Ignore. */
        if (*ep == '\0')
            continue;

#ifdef WINDOWS32
        if (!unix_path && strneq (envp[i], "PATH=", 5))

```

```

        unix_path = ep+1;
    else if (!strnicmp (envp[i], "Path=", 5))
    {
        if (!windows32_path)
            windows32_path
= ep+1;
        /* PATH gets defined after the loop exits. */
        continue;
    }
#endif

    /* Length of the variable name, and skip the '='. */
    len = ep++ - envp[i];

    /* If this is MAKE_RESTARTS, check to see if the "already printed
    the enter statement" flag is set. */
    if (len == 13 && strneq (envp[i], "MAKE_RESTARTS", 13))
    {
        if (*ep == '-')
        {
            OUTPUT_TRACED ();
            ++ep;
        }
        restarts = (unsigned int) atoi (ep);
        export = v_noexport;
    }

    v = define_variable (envp[i], len, ep, o_env, 1);

    /* POSIX says the value of SHELL set in the makefile won't change the
    value of SHELL given to subprocesses. */
    if (streq (v->name, "SHELL"))
    {
#ifdef __MSDOS__
        export = v_noexport;
#endif
        shell_var.name = xstrdup ("SHELL");
        shell_var.length = 5;
        shell_var.value = xstrdup (ep);
    }

    v->export = export;
}

#ifdef WINDOWS32
    /* If we didn't find a correctly spelled PATH we define PATH as
    * either the first misspelled value or an empty string
    */

```

```

if (!unix_path)
    define_variable_cname ("PATH", windows32_path ? windows32_path : "",
        o_env, 1)->export = v_export;
#endif

#else /* For Amiga, read the ENV: device, ignoring all dirs */
{
    BPTR env, file, old;
    char buffer[1024];
    int len;
    __aligned struct FileInfoBlock fib;

    env = Lock ("ENV:", ACCESS_READ);
    if (env)
    {
        old = CurrentDir (DupLock (env));
        Examine (env, &fib);

        while (ExNext (env, &fib))
        {
            if (fib.fib_DirEntryType < 0) /* File */
            {
                /* Define an empty variable.
It will be filled in
                variable_lookup(). Makes startup quite a bit faster. */
                define_variable (fib.fib_FileName,
                    strlen (fib.fib_FileName),
                    "", o_env, 1)->export = v_export;
            }
        }
        UnLock (env);
        UnLock (CurrentDir (old));
    }
}
#endif

/* Decode the switches. */
decode_env_switches (STRING_SIZE_TUPLE ("GNUMAKEFLAGS"));

/* Clear GNUMAKEFLAGS to avoid duplication. */
define_variable_cname ("GNUMAKEFLAGS", "", o_env, 0);

decode_env_switches (STRING_SIZE_TUPLE ("MAKEFLAGS"));

#if 0
/* People write things like:
    MFLAGS="CC=gcc -pipe" "CFLAGS=-g"
and we set the -p, -i and -e switches. Doesn't seem quite right. */
decode_env_switches (STRING_SIZE_TUPLE ("MFLAGS"));

```



```

#endif

/* In output sync mode we need to sync any output generated by reading the
makefiles, such as in $(info ...) or stderr from $(shell ...) etc. */

syncing = make_sync.syncout = (output_sync == OUTPUT_SYNC_LINE
                                || output_sync == OUTPUT_SYNC_TARGET);
OUTPUT_SET (&make_sync);

/* Remember the job slots set through the environment vs. command line. */
{
    int env_slots = arg_job_slots;
    arg_job_slots = INVALID_JOB_SLOTS;

    decode_switches (argc, (const char **)argv, 0);
    argv_slots = arg_job_slots;

    if (arg_job_slots == INVALID_JOB_SLOTS)
        arg_job_slots = env_slots;
}

/* Set a variable specifying whether stdout/stdin is hooked to a TTY. */
#ifdef HAVE_ISATTY
if (isatty (fileno (stdout)))
    if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMOUT")))
    {
        const char *tty = TTYNAME (fileno (stdout));
        define_variable_cname ("MAKE_TERMOUT", tty ? tty : DEFAULT_TTYNAME,
                                o_default, 0)->export = v_export;
    }
if (isatty
(fileno (stderr)))
    if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMERR")))
    {
        const char *tty = TTYNAME (fileno (stderr));
        define_variable_cname ("MAKE_TERMERR", tty ? tty : DEFAULT_TTYNAME,
                                o_default, 0)->export = v_export;
    }
#endif

/* Reset in case the switches changed our minds. */
syncing = (output_sync == OUTPUT_SYNC_LINE
            || output_sync == OUTPUT_SYNC_TARGET);

if (make_sync.syncout && ! syncing)
    output_close (&make_sync);

```

```

make_sync.syncout = syncing;
OUTPUT_SET (&make_sync);

/* Figure out the level of recursion. */
{
    struct variable *v = lookup_variable (STRING_SIZE_TUPLE (MAKELEVEL_NAME));
    if (v && v->value[0] != '\0' && v->value[0] != '-')
        makelevel = (unsigned int) atoi (v->value);
    else
        makelevel = 0;
}

#ifdef WINDOWS32
if (suspend_flag)
{
    fprintf (stderr, "%s (pid = %ld)\n", argv[0], GetCurrentProcessId ());
    fprintf (stderr, _("%s is suspending for 30 seconds..."), argv[0]);
    Sleep (30 * 1000);
    fprintf (stderr, _("done sleep(30). Continuing.\n"));
}
#endif

/* Set always_make_flag if -B was given and we've not restarted already. */
always_make_flag = always_make_set && (restarts == 0);

/* Print version information, and exit. */
if (print_version_flag)
{
    print_version ();
    die (MAKE_SUCCESS);
}

if (ISDB (DB_BASIC))
    print_version ();

#ifdef VMS
/* Set the "MAKE_COMMAND" variable to the name we were invoked with.
   (If it is a relative pathname with a slash, prepend our directory name
   so the result will run the same program regardless of the current dir.
   If it is a name with no slash, we can only hope that PATH did not
   find it in the current directory.) */
#endif
#ifdef WINDOWS32
/*
 * Convert from backslashes to forward slashes for
 * programs like sh which don't like them. Shouldn't
 * matter if the path is one way or the other for
 * CreateProcess().
 */

```

```

if (strpbrk (argv[0], ":\\")) || strstr (argv[0], "..")
    || strneq (argv[0], "/", 2))
    argv[0] = xstrdup (w32ify (argv[0], 1));
#else /* WINDOWS32 */
#if defined (__MSDOS__) || defined (__EMX__)
if (strchr (argv[0], '\\'))
{
    char *p;

    argv[0] = xstrdup (argv[0]);
    for (p = argv[0]; *p; p++)
        if (*p == '\\')
            *p = '/';
}
/* If argv[0] is not in absolute form, prepend the current
   directory. This can happen when Make is invoked by another DJGPP
   program that uses a non-absolute name. */
if (current_directory[0] != '\0'
    && argv[0] != 0
    && (argv[0][0] != '/' && (argv[0][0] == '\0' || argv[0][1] != ':'))
# ifdef __EMX__
    /* do not prepend cwd if argv[0] contains no '/', e.g. "make" */
    && (strchr (argv[0], '/') != 0 || strchr (argv[0], '\\') != 0)
# endif
    )
    argv[0] = xstrdup (concat
        (3, current_directory, "/", argv[0]));
#else /* !__MSDOS__ */
if (current_directory[0] != '\0'
    && argv[0] != 0 && argv[0][0] != '/' && strchr (argv[0], '/') != 0
#ifdef HAVE_DOS_PATHS
    && (argv[0][0] != '\\ && (!argv[0][0] || argv[0][1] != ':'))
    && strchr (argv[0], '\\') != 0
#endif
    )
    argv[0] = xstrdup (concat (3, current_directory, "/", argv[0]));
#endif /* !__MSDOS__ */
#endif /* WINDOWS32 */
#endif

/* We may move, but until we do, here we are. */
starting_directory = current_directory;

/* Set up the job_slots value and the jobserver. This can't be usefully set
   in the makefile, and we want to verify the authorization is valid before
   make has a chance to start using it for something else. */

if (jobserver_auth)

```

```

{
  if (argv_slots == INVALID_JOB_SLOTS)
  {
    if (jobserver_parse_auth (jobserver_auth))
    {
      /* Success! Use the jobserver. */
      job_slots
= 0;
      goto job_setup_complete;
    }

    O (error, NILF, _("warning: jobserver unavailable: using -j1. Add '+' to parent make rule."));
    arg_job_slots = 1;
  }

  /* The user provided a -j setting on the command line: use it. */
  else if (!restarts)
    /* If restarts is >0 we already printed this message. */
    O (error, NILF,
      _("warning: -jN forced in submake: disabling jobserver mode."));

  /* We failed to use our parent's jobserver. */
  reset_jobserver ();
  job_slots = (unsigned int)arg_job_slots;
}
else if (arg_job_slots == INVALID_JOB_SLOTS)
  /* The default is one job at a time. */
  job_slots = 1;
else
  /* Use whatever was provided. */
  job_slots = (unsigned int)arg_job_slots;

job_setup_complete:

/* The extra indirection through $(MAKE_COMMAND) is done
   for hysterical raisins. */

#ifdef VMS
if (vms_use_mcr_command)

  define_variable_cname ("MAKE_COMMAND", vms_command (argv[0]), o_default, 0);
else
  define_variable_cname ("MAKE_COMMAND", program, o_default, 0);
#else
define_variable_cname ("MAKE_COMMAND", argv[0], o_default, 0);
#endif
define_variable_cname ("MAKE", "$(MAKE_COMMAND)", o_default, 1);

```

```

if (command_variables != 0)
{
    struct command_variable *cv;
    struct variable *v;
    unsigned int len = 0;
    char *value, *p;

    /* Figure out how much space will be taken up by the command-line
       variable definitions. */
    for (cv = command_variables; cv != 0; cv = cv->next)
    {
        v = cv->variable;
        len += 2 * strlen (v->name);
        if (! v->recursive)
            ++len;
        ++len;
        len += 2 * strlen (v->value);
        ++len;
    }

    /* Now allocate a buffer big enough and fill it. */
    p = value = alloca (len);
    for (cv = command_variables; cv != 0; cv = cv->next)
    {
        v = cv->variable;
        p = quote_for_env (p, v->name);
        if (! v->recursive)
            *p++ = ':';
        *p++ = '=';
        p = quote_for_env (p, v->value);
        *p++ = ' ';
    }
    p[-1] = '\0';          /* Kill the final space and terminate. */

    /* Define an unchangeable variable with a name that no POSIX.2
       makefile could validly use for its own variable. */
    define_variable_cname ("-*-command-variables-*- ", value, o_automatic, 0);

    /* Define the variable; this will not override any user definition.
       Normally a reference to this variable is written into the value of
       MAKEFLAGS, allowing the user to override this value to affect the
       exported value of MAKEFLAGS. In POSIX-pedantic mode, we cannot
       allow the user's setting of MAKEOVERRIDES to affect MAKEFLAGS, so
       a reference to this hidden variable is written instead. */
    define_variable_cname
    ("MAKEOVERRIDES", "${-*-command-variables-*-}",
        o_env, 1);
#ifdef VMS

```

```

    vms_export_dcl_symbol ("MAKEOVERRIDES", "${-*command-variables-*}");
#endif
}

/* If there were -C flags, move ourselves about. */
if (directories != 0)
{
    unsigned int i;
    for (i = 0; directories->list[i] != 0; ++i)
    {
        const char *dir = directories->list[i];
#ifdef WINDOWS32
        /* WINDOWS32 chdir() doesn't work if the directory has a trailing '/'
        But allow -C/ just in case someone wants that. */
        {
            char *p = (char *)dir + strlen (dir) - 1;
            while (p > dir && (p[0] == '/' || p[0] == '\\'))
                --p;
            p[1] = '\0';
        }
#endif
        if (chdir (dir) < 0)
            pfatal_with_name (dir);
    }
}

#ifdef WINDOWS32
/*
 * THIS BLOCK OF CODE MUST COME AFTER chdir() CALL ABOVE IN ORDER
 * TO NOT CONFUSE THE
DEPENDENCY CHECKING CODE IN implicit.c.
 *
 * The functions in dir.c can incorrectly cache information for "."
 * before we have changed directory and this can cause file
 * lookups to fail because the current directory (.) was pointing
 * at the wrong place when it was first evaluated.
 */
no_default_sh_exe = !find_and_set_default_shell (NULL);
#endif /* WINDOWS32 */

/* Except under -s, always do -w in sub-makes and under -C. */
if (!silent_flag && (directories != 0 || makelevel > 0))
    print_directory_flag = 1;

/* Let the user disable that with --no-print-directory. */
if (inhibit_print_directory_flag)
    print_directory_flag = 0;

```

```

/* If -R was given, set -r too (doesn't make sense otherwise!) */
if (no_builtin_variables_flag)
    no_builtin_rules_flag = 1;

/* Construct the list of include directories to search. */

construct_include_path (include_directories == 0
                       ? 0 : include_directories->list);

/* If we chdir'ed, figure out where we are now. */
if (directories)
{
#ifdef WINDOWS32
    if (getcwd_fs (current_directory, GET_PATH_MAX) == 0)
#else
    if (getcwd (current_directory, GET_PATH_MAX) == 0)
#endif
    {
#ifdef HAVE_GETCWD
        perror_with_name ("getcwd", "");
    #else
        OS (error, NILF, "getwd: %s", current_directory);
    #endif
        starting_directory = 0;
    }
    else
        starting_directory = current_directory;
}

define_variable_cname ("CURDIR", current_directory, o_file, 0);

/* Read any stdin makefiles into temporary files. */

if (makefiles != 0)
{
    unsigned int i;
    for (i = 0; i < makefiles->idx; ++i)
        if (makefiles->list[i][0] == '-' && makefiles->list[i][1] == '\0')
        {
            /* This makefile is standard input. Since we may re-exec
               and thus re-read the makefiles, we read standard input
               into a temporary
file and read from that. */
            FILE *outfile;
            char *template;
            const char *tmpdir;

            if (stdin_nm)

```

```

    O (fatal, NILF,
        _("Makefile from standard input specified twice.));

#ifdef VMS
# define DEFAULT_TMPDIR    "/sys$scratch/"
#else
# ifdef P_tmpdir
#  define DEFAULT_TMPDIR    P_tmpdir
# else
#  define DEFAULT_TMPDIR    "/tmp"
# endif
#endif
#define DEFAULT_TMPFILE    "GmXXXXXX"

    if (((tmpdir = getenv ("TMPDIR")) == NULL || *tmpdir == '\0')
#ifdef __MSDOS__ || defined (WINDOWS32) || defined (__EMX__)
        /* These are also used commonly on these platforms. */
        && ((tmpdir = getenv ("TEMP")) == NULL || *tmpdir == '\0')
        && ((tmpdir = getenv ("TMP")) == NULL || *tmpdir == '\0')
#endif
    )
        tmpdir = DEFAULT_TMPDIR;

    template = alloca (strlen (tmpdir) + CSTRLEN (DEFAULT_TMPFILE) + 2);

    strcpy (template, tmpdir);

#ifdef HAVE_DOS_PATHS
    if (strchr ("\\", template[strlen (template) - 1]) == NULL)
        strcat (template, "/");
#else
# ifdef VMS
    if (template[strlen (template) - 1] != '/')
        strcat (template, "/");
# endif /* !VMS */
#endif /* !HAVE_DOS_PATHS */

    strcat (template, DEFAULT_TMPFILE);
    outfile = output_tmpfile (&stdin_nm, template);
    if (outfile == 0)
        pfatal_with_name (_("fopen (temporary file)"));
    while (!feof (stdin) && ! ferror (stdin))
    {
        char buf[2048];
        unsigned int n = fread (buf, 1, sizeof (buf), stdin);
        if (n > 0 && fwrite (buf, 1, n, outfile) != n)
            pfatal_with_name (_("fwrite (temporary file)"));
    }

```



```

fclose (outfile);

/* Replace the name that read_all_makefiles will
   see with the name of
the temporary file. */
makefiles->list[i] = strcache_add (stdin_nm);

/* Make sure the temporary file will not be remade. */
{
    struct file *f = enter_file (strcache_add (stdin_nm));
    f->updated = 1;
    f->update_status = us_success;
    f->command_state = cs_finished;
    /* Can't be intermediate, or it'll be removed too early for
       make re-exec. */
    f->intermediate = 0;
    f->dontcare = 0;
}
}
}

#ifndef __EMX__ /* Don't use a SIGCHLD handler for OS/2 */
#if !defined(HAVE_WAIT_NOHANG) || defined(MAKE_JOBSERVER)
/* Set up to handle children dying. This must be done before
   reading in the makefiles so that 'shell' function calls will work.

   If we don't have a hanging wait we have to fall back to old, broken
   functionality here and rely on the signal handler and counting
   children.

   If we're using the jobs pipe we need a signal handler so that SIGCHLD is
   not ignored; we need it to interrupt the read(2) of the jobserver pipe if
   we're waiting for a token.

   If none of these are true, we don't need a signal handler at all. */
{
    # if defined SIGCHLD
        bsd_signal (SIGCHLD, child_handler);
    # endif
    # if defined SIGCLD && SIGCLD != SIGCHLD
        bsd_signal (SIGCLD, child_handler);
    # endif
}

#ifdef HAVE_PSELECT
/* If we have pselect() then we need to block SIGCHLD so it's deferred. */
{
    sigset_t block;

```

```

sigemptyset (&block);
sigaddset (&block, SIGCHLD);
if (sigprocmask (SIG_SETMASK, &block, NULL) < 0)
    pfatal_with_name ("sigprocmask(SIG_SETMASK, SIGCHLD)");
}
#endif

#endif
#endif

/* Let the user send us SIGUSR1 to toggle the -d flag during the run. */
#ifdef SIGUSR1
    bsd_signal (SIGUSR1, debug_signal_handler);
#endif

/* Define the initial list of suffixes for old-style rules. */
set_default_suffixes ();

/* Define the file rules for the built-in suffix rules. These will later
   be converted into pattern rules. We used to do this in
   install_default_implicit_rules, but since that happens after reading
   makefiles, it results in the built-in pattern rules taking precedence
   over makefile-specified suffix rules, which is wrong. */
install_default_suffix_rules ();

/* Define some internal and special variables. */
define_automatic_variables ();

/* Set up the MAKEFLAGS and MFLAGS variables for makefiles to see.
   Initialize it to be exported but allow the makefile to reset it. */
define_makeflags (0, 0)->export = v_export;

/* Define the default variables. */
define_default_variables ();

default_file = enter_file (strcache_add (".DEFAULT"));

default_goal_var = define_variable_cname (".DEFAULT_GOAL", "", o_file, 0);

/* Evaluate all strings provided with --eval.
   Also set up the $(*-eval-flags-*-)
   variable. */

if (eval_strings)
{
    char *p, *value;
    unsigned int i;
    unsigned int len = (CSTRLEN ("--eval=") + 1) * eval_strings->idx;

```

```

for (i = 0; i < eval_strings->idx; ++i)
{
    p = xstrdup (eval_strings->list[i]);
    len += 2 * strlen (p);
    eval_buffer (p, NULL);
    free (p);
}

p = value = alloca (len);
for (i = 0; i < eval_strings->idx; ++i)
{
    strcpy (p, "--eval=");
    p += CSTRLEN ("--eval=");
    p = quote_for_env (p, eval_strings->list[i]);
    *(p++) = ' ';
}
p[-1] = '\0';

define_variable_cname ("-*-eval-flags-*-", value, o_automatic, 0);
}

/* Read all the makefiles. */

read_files = read_all_makefiles (makefiles == 0 ? 0 : makefiles->list);

#ifdef WINDOWS32
/* look one last time after reading all Makefiles */
if (no_default_sh_exe)
    no_default_sh_exe = !find_and_set_default_shell
(NULL);
#endif /* WINDOWS32 */

#if defined (__MSDOS__) || defined (__EMX__) || defined (VMS)
/* We need to know what kind of shell we will be using. */
{
    extern int _is_unixy_shell (const char *_path);
    struct variable *shv = lookup_variable (STRING_SIZE_TUPLE ("SHELL"));
    extern int unixy_shell;
    extern const char *default_shell;

    if (shv && shv->value)
    {
        char *shell_path = recursively_expand (shv);

        if (shell_path && _is_unixy_shell (shell_path))
            unixy_shell = 1;
        else

```

```

        unixy_shell = 0;
        if (shell_path)
            default_shell = shell_path;
    }
}
#endif /* __MSDOS__ || __EMX__ */

{
    int old_builtin_rules_flag = no_builtin_rules_flag;
    int old_builtin_variables_flag = no_builtin_variables_flag;

    /* Decode switches again, for variables set by the makefile. */
    decode_env_switches (STRING_SIZE_TUPLE ("GNUMAKEFLAGS"));

    /* Clear GNUMAKEFLAGS
    to avoid duplication. */
    define_variable_cname ("GNUMAKEFLAGS", "", o_override, 0);

    decode_env_switches (STRING_SIZE_TUPLE ("MAKEFLAGS"));
#if 0
    decode_env_switches (STRING_SIZE_TUPLE ("MFLAGS"));
#endif

    /* Reset in case the switches changed our mind. */
    syncing = (output_sync == OUTPUT_SYNC_LINE
               || output_sync == OUTPUT_SYNC_TARGET);

    if (make_sync.syncout && ! syncing)
        output_close (&make_sync);

    make_sync.syncout = syncing;
    OUTPUT_SET (&make_sync);

    /* If we've disabled builtin rules, get rid of them. */
    if (no_builtin_rules_flag && ! old_builtin_rules_flag)
    {
        if (suffix_file->builtin)
        {
            free_dep_chain (suffix_file->deps);
            suffix_file->deps = 0;
        }
        define_variable_cname ("SUFFIXES", "", o_default, 0);
    }

    /* If we've disabled builtin variables, get rid of them. */
    if (no_builtin_variables_flag && ! old_builtin_variables_flag)
        undefine_default_variables ();
}

```

```

#if defined (__MSDOS__) || defined (__EMX__) || defined (VMS)
    if (arg_job_slots != 1
# ifdef __EMX__
        && _osmode != OS2_MODE /* turn off -j if we are in DOS mode */
# endif
        )
    {
        O (error, NILF,
            _("Parallel jobs (-j) are not supported on this platform."));
        O (error, NILF, _("Resetting to single job (-j1) mode."));
        arg_job_slots = job_slots = 1;
    }
#endif

/* If we have >1 slot at this point, then we're a top-level make.
   Set up the jobserver.

   Every make assumes that it always has one job it can run. For the
   submakes it's the token they were given by their parent. For the top
   make, we just subtract one from the number the user wants. */

if (job_slots > 1 && jobserver_setup (job_slots - 1))
{
    /* Fill in the jobserver_auth for our children. */
    jobserver_auth = jobserver_get_auth ();

    if (jobserver_auth)
    {
        /* We're using the jobserver so set job_slots to 0. */
        master_job_slots = job_slots;
        job_slots = 0;
    }
}

/* If we're not using parallel jobs, then we don't need output sync.
   This is so people can enable output sync in GNUMAKEFLAGS or similar, but
   not have it take effect unless parallel builds are enabled. */
if (syncing && job_slots == 1)
{
    OUTPUT_UNSET ();
    output_close (&make_sync);
    syncing = 0;
    output_sync = OUTPUT_SYNC_NONE;
}

#ifdef MAKE_SYMLINKS
if (check_symlink_flag)

```

```

{
    O (error, NILF, _("Symbolic links not supported: disabling -L."));
    check_symlink_flag = 0;
}
#endif

/* Set up MAKEFLAGS and MFLAGS again, so they will be right. */

define_makeflags (1, 0);

/* Make each 'struct goaldep' point at the 'struct file' for the file
   depended on. Also do magic for special targets. */

snap_deps ();

/* Convert old-style
   suffix rules to pattern rules. It is important to
   do this before installing the built-in pattern rules below, so that
   makefile-specified suffix rules take precedence over built-in pattern
   rules. */

convert_to_pattern ();

/* Install the default implicit pattern rules.
   This used to be done before reading the makefiles.
   But in that case, built-in pattern rules were in the chain
   before user-defined ones, so they matched first. */

install_default_implicit_rules ();

/* Compute implicit rule limits. */

count_implicit_rule_limits ();

/* Construct the listings of directories in VPATH lists. */

build_vpath_lists ();

/* Mark files given with -o flags as very old and as having been updated
   already, and files given with -W flags as brand new (time-stamp as far
   as possible into the future). If restarts is set we'll do -W later. */

if (old_files != 0)
{
    const char **p;
    for (p
= old_files->list; *p != 0; ++p)
    {

```

```

    struct file *f = enter_file (*p);
    f->last_mtime = f->mtime_before_update = OLD_MTIME;
    f->updated = 1;
    f->update_status = us_success;
    f->command_state = cs_finished;
}
}

if (!restarts && new_files != 0)
{
    const char **p;
    for (p = new_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file (*p);
        f->last_mtime = f->mtime_before_update = NEW_MTIME;
    }
}

/* Initialize the remote job module. */
remote_setup ();

/* Dump any output we've collected. */

OUTPUT_UNSET ();
output_close (&make_sync);

if (read_files != 0)
{
    /* Update any makefiles if necessary. */

    FILE_TIMESTAMP *makefile_mtimes = 0;
    unsigned int mm_idx = 0;
    char **argv = NULL;
    const char **nargv;
    int nargc;
    enum update_status status;

    DB (DB_BASIC, (_("Updating
makefiles....\n")));

    /* Remove any makefiles we don't want to try to update.
    Also record the current modtimes so we can compare them later. */
    {
        register struct goaldep *d, *last;
        last = 0;
        d = read_files;
        while (d != 0)
        {

```

```

struct file *f = d->file;
if (f->double_colon)
    for (f = f->double_colon; f != NULL; f = f->prev)
    {
        if (f->deps == 0 && f->cmds != 0)
        {
            /* This makefile is a :: target with commands, but
               no dependencies. So, it will always be remade.
               This might well cause an infinite loop, so don't
               try to remake it. (This will only happen if
               your makefiles are written exceptionally
               stupidly; but if you work for Athena, that's how
               you write
your makefiles.) */

            DB (DB_VERBOSE,
                _("Makefile '%s' might loop; not remaking it.\n"),
                f->name));

            if (last == 0)
                read_files = d->next;
            else
                last->next = d->next;

            /* Free the storage. */
            free_goaldep (d);

            d = last == 0 ? read_files : last->next;

            break;
        }
    }

if (f == NULL || !f->double_colon)
{
    makefile_mtimes = xrealloc (makefile_mtimes,
                                (mm_idx+1)
                                * sizeof (FILE_TIMESTAMP));
    makefile_mtimes[mm_idx++] = file_mtime_no_search (d->file);
    last = d;
    d = d->next;
}
}
}

/* Set up 'MAKEFLAGS' specially while remaking makefiles. */
define_makeflags (1, 1);

```



```

{
    int orig_db_level = db_level;

    if (! ISDB (DB_MAKEFILES))
        db_level = DB_NONE;

    rebuilding_makefiles = 1;
    status = update_goal_chain (read_files);
    rebuilding_makefiles = 0;

    db_level = orig_db_level;
}

switch (status)
{
    case us_question:
        /* The only way this can happen is if the user specified -q and asked
           for one of the makefiles to be remade as a target on the command
           line. Since we're not actually updating anything with -q we can
           treat this as "did nothing". */

    case us_none:
        /* Did nothing. */
        break;

    case us_failed:
        /* Failed to update. Figure out if we care. */
        {
            /* Nonzero if any makefile was successfully remade. */

            int any_remade = 0;
            /* Nonzero if any makefile we care about failed
               in updating or could not be found at all. */
            int any_failed = 0;
            unsigned int i;
            struct goaldep *d;

            for (i = 0, d = read_files; d != 0; ++i, d = d->next)
            {
                if (d->file->updated)
                {
                    /* This makefile was updated. */
                    if (d->file->update_status == us_success)
                    {
                        /* It was successfully updated. */
                        any_remade |= (file_mtime_no_search (d->file)
                                      != makefile_mtimes[i]);
                    }
                }
            }
        }
    }

```

```

else if (! (d->flags & RM_DONTCARE))
{
    FILE_TIMESTAMP mtime;
    /* The update failed and this makefile was not
    from the MAKEFILES variable,
so we care. */
    OS (error, NILF, _("Failed to remake makefile '%s'."),
        d->file->name);
    mtime = file_mtime_no_search (d->file);
    any_remade |= (mtime != NONEXISTENT_MTIME
        && mtime != makefile_mtimes[i]);
    makefile_status = MAKE_FAILURE;
}
}
else
/* This makefile was not found at all. */
if (! (d->flags & RM_DONTCARE))
{
    const char *dnm = dep_name (d);
    size_t l = strlen (dnm);

    /* This is a makefile we care about. See how much. */
    if (d->flags & RM_INCLUDED)
        /* An included makefile. We don't need to die, but we
        do want to complain. */

error (NILF, l,
        _("Included makefile '%s' was not found."), dnm);
    else
    {
        /* A normal makefile. We must die later. */
        error (NILF, l,
            _("Makefile '%s' was not found"), dnm);
        any_failed = 1;
    }
}

/* Reset this to empty so we get the right error message below. */
read_files = 0;

if (any_remade)
    goto re_exec;
if (any_failed)
    die (MAKE_FAILURE);
break;
}

case us_success:

```

```

re_exec:
/* Updated successfully. Re-exec ourselves. */

remove_intermediates (0);

if (print_data_base_flag)
    print_data_base ();

clean_jobserver (0);

if (makefiles
!= 0)
{
    /* These names might have changed. */
    int i, j = 0;
    for (i = 1; i < argc; ++i)
        if (strneq (argv[i], "-f", 2)) /* XXX */
        {
            if (argv[i][2] == '\0')
                /* This cast is OK since we never modify argv. */
                argv[++i] = (char *) makefiles->list[j];
            else
                argv[i] = xstrdup (concat (2, "-f", makefiles->list[j]));
            ++j;
        }
    }

/* Add -o option for the stdin temporary file, if necessary. */
nargc = argc;
if (stdin_nm)
{
    void *m = xmalloc ((nargc + 2) * sizeof (char *));
    aargv = m;
    memcpy (aargv, argv, argc * sizeof (char *));
    aargv[nargc++] = xstrdup (concat (2, "-o", stdin_nm));
    aargv[nargc] = 0;
    nargv
= m;
}
else
    nargv = (const char**)argv;

if (directories != 0 && directories->idx > 0)
{
    int bad = 1;
    if (directory_before_chdir != 0)
    {
        if (chdir (directory_before_chdir) < 0)

```

```

        perror_with_name ("chdir", "");
    else
        bad = 0;
    }
    if (bad)
        O (fatal, NILF,
            _("Couldn't change back to original directory."));
    }

    ++restarts;

    if (ISDB (DB_BASIC))
    {
        const char **p;
        printf (_("Re-executing[%u]:"), restarts);
        for (p = nargs; *p != 0; ++p)
            printf (" %s", *p);
        putchar ('\n');
        fflush (stdout);
    }

#ifdef _AMIGA
    {
        char **p;
        for (p = environ; *p != 0; ++p)
        {
            if (strneq (*p, MAKELEVEL_NAME "=", MAKELEVEL_LENGTH+1))
            {
                *p = alloca (40);
                sprintf (*p, "%s=%u", MAKELEVEL_NAME, makelevel);
#ifdef VMS
                vms_putenv_symbol (*p);
#endif
            }
            else if (strneq (*p, "MAKE_RESTARTS=", CSTRLEN ("MAKE_RESTARTS=")))
            {
                *p = alloca (40);
                sprintf (*p, "MAKE_RESTARTS=%s%u",
                    OUTPUT_IS_TRACED () ? "-" : "", restarts);
                restarts = 0;
            }
        }
    }
#else /* AMIGA */
    {
        char buffer[256];

        sprintf (buffer, "%u", makelevel);

```

```

SetVar (MAKELEVEL_NAME, buffer, -1, GVF_GLOBAL_ONLY);

sprintf (buffer, "%s%u", OUTPUT_IS_TRACED () ? "-" : "", restarts);
SetVar ("MAKE_RESTARTS", buffer, -1, GVF_GLOBAL_ONLY);
restarts = 0;
}
#endif

/* If we didn't set the restarts variable yet, add it. */
if (restarts)
{
    char *b = alloca (40);
    sprintf (b, "MAKE_RESTARTS=%s%u",
        OUTPUT_IS_TRACED () ? "-" : "", restarts);
    putenv (b);
}

fflush (stdout);
fflush (stderr);

#ifdef _AMIGA
    exec_command (nargv);
    exit (0);
#elif defined (__EMX__)
{
    /* It is not possible to use execve() here because this
       would cause the parent process to be terminated with
       exit code 0 before the child process has been terminated.
       Therefore it may be the best solution simply to spawn the
       child process including all file handles and to wait for its
       termination. */
    int pid;
    int r;
    pid = child_execute_job (NULL,
1, nargv, environ);

    /* is this loop really necessary? */
    do {
        pid = wait (&r);
    } while (pid <= 0);
    /* use the exit code of the child process */
    exit (WIFEXITED(r) ? WEXITSTATUS(r) : EXIT_FAILURE);
}
#else
#ifdef SET_STACK_SIZE
    /* Reset limits, if necessary. */
    if (stack_limit.rlim_cur)
        setrlimit (RLIMIT_STACK, &stack_limit);

```

```

#endif
    exec_command ((char **)nargv, environ);
#endif
    free (aargv);
    break;
}

/* Free the makefile mtimes. */
free (makefile_mtimes);
}

/* Set up 'MAKEFLAGS' again for the normal targets. */
define_makeflags (1, 0);

/* Set always_make_flag if -B was given. */
always_make_flag = always_make_set;

/* If restarts is set we haven't set up -W files yet, so do that now. */
if (restarts && new_files != 0)
{
    const char **p;
    for (p
= new_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file (*p);
        f->last_mtime = f->mtime_before_update = NEW_MTIME;
    }
}

/* If there is a temp file from reading a makefile from stdin, get rid of
it now. */
if (stdin_nm && unlink (stdin_nm) < 0 && errno != ENOENT)
    perror_with_name (_("unlink (temporary file): "), stdin_nm);

/* If there were no command-line goals, use the default. */
if (goals == 0)
{
    char *p;

    if (default_goal_var->recursive)
        p = variable_expand (default_goal_var->value);
    else
    {
        p = variable_buffer_output (variable_buffer, default_goal_var->value,
                                strlen (default_goal_var->value));
        *p = '\0';
        p = variable_buffer;
    }
}

```

```

if (*p != '\0')
{
    struct file *f = lookup_file (p);

    /* If .DEFAULT_GOAL is a non-existent target, enter it into the
       table and let the standard logic sort it out. */
    if (f == 0)
    {
        struct nameseq *ns;

        ns = PARSE_SIMPLE_SEQ (&p, struct nameseq);
        if (ns)
        {
            /* .DEFAULT_GOAL should contain one target. */
            if (ns->next != 0)
                O (fatal, NILF,
                   _(".DEFAULT_GOAL contains more than one target"));

            f = enter_file (strcache_add (ns->name));

            ns->name = 0; /* It was reused by enter_file(). */
            free_ns_chain (ns);
        }
    }

    if (f)
    {
        goals = alloc_goaldep ();
        goals->file = f;
    }
}
else
    lastgoal->next = 0;

if (!goals)
{
    if (read_files == 0)
        O (fatal, NILF, _("No targets specified and no makefile found"));

    O (fatal, NILF, _("No targets"));
}

/* Update the goals. */

DB (DB_BASIC, _("Updating goal targets....\n"));

```

```

{
switch (update_goal_chain (goals))
{
case us_none:
/* Nothing happened. */
/* FALLTHROUGH */
case us_success:
/* Keep the previous result. */
break;
case us_question:
/* We are under -q and would run some commands. */
makefile_status = MAKE_TROUBLE;
break;
case us_failed:
/* Updating failed. POSIX.2 specifies exit status >1 for this; */
makefile_status = MAKE_FAILURE;
break;
}

/* If we detected some clock skew, generate one last warning */
if (clock_skew_detected)
O (error, NILF,
_("warning: Clock skew detected. Your build may be incomplete.));

/* Exit. */
die (makefile_status);
}

/* NOTREACHED */
exit (MAKE_SUCCESS);
}

/* Parsing of arguments, decoding of switches. */

static char
options[1 + sizeof (switches) / sizeof (switches[0]) * 3];
static struct option long_options[(sizeof (switches) / sizeof (switches[0])) +
                                   (sizeof (long_option_aliases) /
                                    sizeof (long_option_aliases[0]))];

/* Fill in the string and vector for getopt. */
static void
init_switches (void)
{
char *p;
unsigned int c;
unsigned int i;

```



```

if (options[0] != '\0')
    /* Already done. */
    return;

p = options;

/* Return switch and non-switch args in order, regardless of
   POSIXLY_CORRECT. Non-switch args are returned as option 1. */
*p++ = '-';

for (i = 0; switches[i].c != '\0'; ++i)
{
    long_options[i].name = (switches[i].long_name == 0 ? "" :
                             switches[i].long_name);
    long_options[i].flag = 0;
    long_options[i].val = switches[i].c;
    if (short_option (switches[i].c))
        *p++ = switches[i].c;
    switch (switches[i].type)
    {
        case flag:
        case flag_off:
        case ignore:
            long_options[i].has_arg = no_argument;
            break;

        case string:
        case strlist:
        case filename:
        case positive_int:
        case floating:
            if (short_option (switches[i].c))
                *p++ = ':';
            if (switches[i].noarg_value != 0)
            {
                if (short_option (switches[i].c))
                    *p++ = ':';
                long_options[i].has_arg = optional_argument;
            }
            else
                long_options[i].has_arg = required_argument;
            break;
    }
}
*p = '\0';
for (c = 0; c < (sizeof (long_option_aliases) /
                 sizeof (long_option_aliases[0]));

```

```

        ++c)
    long_options[i++] = long_option_aliases[c];
    long_options[i].name = 0;
}

/* Non-option argument. It might be a variable definition. */
static void
handle_non_switch_argument (const
    char *arg, int env)
{
    struct variable *v;

    if (arg[0] == '-' && arg[1] == '\0')
        /* Ignore plain '-' for compatibility. */
        return;

#ifdef VMS
    {
        /* VMS DCL quoting can result in foo="bar baz" showing up here.
           Need to remove the double quotes from the value. */
        char *eq_ptr;
        char *new_arg;
        eq_ptr = strchr (arg, '=');
        if ((eq_ptr != NULL) && (eq_ptr[1] == '"'))
        {
            int len;
            int seg1;
            int seg2;
            len = strlen(arg);
            new_arg = alloca(len);
            seg1 = eq_ptr - arg + 1;
            strncpy(new_arg, arg, (seg1));
            seg2 = len - seg1 - 1;
            strncpy(&new_arg[seg1], &eq_ptr[2], seg2);
            new_arg[seg1 + seg2] = 0;
            if (new_arg[seg1 + seg2 - 1] == '"')
                new_arg[seg1 + seg2 - 1] = 0;
            arg = new_arg;
        }
    }
#endif
    v = try_variable_definition (0, arg, o_command, 0);
    if (v != 0)
    {
        /* It is indeed a variable definition.
           If we don't already have this
           one, record a pointer to the variable for later use in

```

```

    define_makeflags. */
struct command_variable *cv;

for (cv = command_variables; cv != 0; cv = cv->next)
    if (cv->variable == v)
        break;

if (! cv)
{
    cv = xmalloc (sizeof (*cv));
    cv->variable = v;
    cv->next = command_variables;
    command_variables = cv;
}
}
else if (! env)
{
    /* Not an option or variable definition; it must be a goal
       target! Enter it as a file and add it to the dep chain of
       goals. */
    struct file *f = enter_file (strcache_add (expand_command_line_file (arg)));
    f->cmd_target = 1;

    if (goals == 0)
    {
        goals = alloc_goaldep ();
        lastgoal = goals;
    }
    else
    {
        lastgoal->next = alloc_goaldep ();
        lastgoal = lastgoal->next;
    }

    lastgoal->file = f;

    {
        /* Add this target name to the MAKECMDGOALS variable. */
        struct variable *gv;
        const char *value;

        gv = lookup_variable (STRING_SIZE_TUPLE ("MAKECMDGOALS"));
        if (gv == 0)
            value = f->name;
        else
        {
            /* Paste the old and new values together */
            unsigned int oldlen, newlen;

```

```

    char *vp;

    oldlen = strlen (gv->value);
    newlen = strlen (f->name);
    vp = alloca (oldlen + 1 + newlen + 1);
    memcpy (vp, gv->value, oldlen);
    vp[oldlen] = ' ';
    memcpy (&vp[oldlen + 1], f->name, newlen + 1);
    value = vp;
}
define_variable_cname ("MAKECMDGOALS", value, o_default, 0);
}
}
}

/* Print a nice usage method. */

static void
print_usage (int bad)
{
    const char *const *cpp;
    FILE *usageto;

    if (print_version_flag)
        print_version
    ();

    usageto = bad ? stderr : stdout;

    fprintf (usageto, _("Usage: %s [options] [target] ...\n"), program);

    for (cpp = usage; *cpp; ++cpp)
        fputs (_(*cpp), usageto);

    if (!remote_description || *remote_description == '\0')
        fprintf (usageto, _("\nThis program built for %s\n"), make_host);
    else
        fprintf (usageto, _("\nThis program built for %s (%s)\n"),
            make_host, remote_description);

    fprintf (usageto, _("Report bugs to <bug-make@gnu.org>\n"));
}

/* Decode switches from ARGV and ARGV.
   They came from the environment if ENV is nonzero. */

static void
decode_switches (int argc, const char **argv, int env)

```

```

{
int bad = 0;
register const struct command_switch *cs;
register struct stringlist *sl;
register int c;

/* getopt does most of the parsing for us.
   First, get its vectors set up. */

init_switches ();

/* Let getopt produce error messages for the command line,
   but not for options from
the environment. */
opterr = !env;
/* Reset getopt's state. */
optind = 0;

while (optind < argc)
{
    const char *coptarg;

    /* Parse the next argument. */
    c = getopt_long (argc, (char*const*)argv, options, long_options, NULL);
    coptarg = optarg;
    if (c == EOF)
        /* End of arguments, or "--" marker seen. */
        break;
    else if (c == 1)
        /* An argument not starting with a dash. */
        handle_non_switch_argument (coptarg, env);
    else if (c == '?')
        /* Bad option. We will print a usage message and die later.
           But continue to parse the other options so the user can
           see all he did wrong. */
        bad = 1;
    else
        for (cs = switches; cs->c != '\0'; ++cs)
            if (cs->c == c)
            {
                /* Whether or not we will actually do anything with
                   this switch. We test this individually inside the
                   switch
below rather than just once outside it, so that
           options which are to be ignored still consume args. */
                int doit = !env || cs->env;

                switch (cs->type)

```

```

{
default:
    abort ();

case ignore:
    break;

case flag:
case flag_off:
    if (doit)
        *(int *) cs->value_ptr = cs->type == flag;
    break;

case string:
case strlist:
case filename:
    if (!doit)
        break;

    if (!coptarg)
        coptarg = xstrdup (cs->noarg_value);
    else if (*coptarg == '\0')
    {
        char opt[2] = "c";
        const char *op = opt;

        if (short_option (cs->c))
            opt[0]
= cs->c;
        else
            op = cs->long_name;

        error (NILF, strlen (op),
            _("the '%s%s' option requires a non-empty string argument"),
            short_option (cs->c) ? "-" : "--", op);
        bad = 1;
        break;
    }

    if (cs->type == string)
    {
        char **val = (char **)cs->value_ptr;
        free (*val);
        *val = xstrdup (coptarg);
        break;
    }

    sl = *(struct stringlist **) cs->value_ptr;

```

```

    if (sl == 0)
    {
        sl = xmalloc (sizeof (struct stringlist));
        sl->max = 5;
        sl->idx = 0;
        sl->list = xmalloc (5 * sizeof (char *));
        *(struct
stringlist **) cs->value_ptr = sl;
    }
    else if (sl->idx == sl->max - 1)
    {
        sl->max += 5;
        /* MSVC erroneously warns without a cast here. */
        sl->list = xrealloc ((void *)sl->list,
                            sl->max * sizeof (char *));
    }
    if (cs->type == filename)
        sl->list[sl->idx++] = expand_command_line_file (coptarg);
    else
        sl->list[sl->idx++] = xstrdup (coptarg);
    sl->list[sl->idx] = 0;
    break;

case positive_int:
    /* See if we have an option argument; if we do require that
       it's all digits, not something like "10foo". */
    if (coptarg == 0 && argc > optind)
    {
        const char *cp;

for (cp=argv[optind]; ISDIGIT (cp[0]); ++cp)
        ;
        if (cp[0] == '\0')
            coptarg = argv[optind++];
    }

    if (!doit)
        break;

    if (coptarg)
    {
        int i = atoi (coptarg);
        const char *cp;

        /* Yes, I realize we're repeating this in some cases. */
        for (cp = coptarg; ISDIGIT (cp[0]); ++cp)
            ;

```

```

        if (i < 1 || cp[0] != '\0')
        {
            error (NILF, 0,
                _("the '-%c' option requires a positive integer argument"),
                cs->c);
            bad = 1;
        }
        else
            *(unsigned int *) cs->value_ptr = i;
    }

    else
        *(unsigned int *) cs->value_ptr
        = *(unsigned int *) cs->noarg_value;
    break;

#ifdef NO_FLOAT
    case floating:
        if (coptarg == 0 && optind < argc
            && (ISDIGIT (argv[optind][0]) || argv[optind][0] == '.'))
            coptarg = argv[optind++];

        if (doit)
            *(double *) cs->value_ptr
            = (coptarg != 0 ? atof (coptarg)
                : *(double *) cs->noarg_value);

        break;
#endif

    }

    /* We've found the switch. Stop looking. */
    break;
}

}

/* There are no more options according to getting getopt, but there may
   be some arguments left. Since we have asked for non-option arguments
   to be returned in order, this only happens when there is a "--"
   argument to prevent
   later arguments from being options. */
while (optind < argc)
    handle_non_switch_argument (argv[optind++], env);

if (!env && (bad || print_usage_flag))
{
    print_usage (bad);
    die (bad ? MAKE_FAILURE : MAKE_SUCCESS);
}

```



```

}

/* If there are any options that need to be decoded do it now. */
decode_debug_flags ();
decode_output_sync_flags ();
}

/* Decode switches from environment variable ENVAR (which is LEN chars long).
   We do this by chopping the value into a vector of words, prepending a
   dash to the first word if it lacks one, and passing the vector to
   decode_switches. */

static void
decode_env_switches (const char *envar, unsigned int len)
{
  char *varref = alloca (2 + len + 2);
  char *value, *p, *buf;
  int argc;
  const char **argv;

  /* Get the variable's value. */
  varref[0] = '$';
  varref[1] = '(';
  memcpy (&varref[2], envar, len);
  varref[2 + len] = ')';
  varref[2 + len + 1] = '\0';
  value =
  variable_expand (varref);

  /* Skip whitespace, and check for an empty value. */
  NEXT_TOKEN (value);
  len = strlen (value);
  if (len == 0)
    return;

  /* Allocate a vector that is definitely big enough. */
  argv = alloca ((1 + len + 1) * sizeof (char *));

  /* getopt will look at the arguments starting at ARGV[1].
     Prepend a spacer word. */
  argv[0] = 0;
  argc = 1;

  /* We need a buffer to copy the value into while we split it into words
     and unquote it. Set up in case we need to prepend a dash later. */
  buf = alloca (1 + len + 1);
  buf[0] = '-';
  p = buf+1;

```

```

argv[argc] = p;
while (*value != '\0')
{
    if (*value == '\\' && value[1] != '\0')
        ++value;          /* Skip the backslash. */
    else if (ISBLANK (*value))
    {
        /* End of the word. */
        *p++ = '\0';
        argv[++argc] = p;
        do
            ++value;
        while (ISBLANK (*value));
        continue;
    }
    *p++ = *value++;
}
*p = '\0';
argv[++argc] = 0;
assert (p < buf + len + 2);

if (argv[1][0] != '-' && strchr (argv[1], '=') == 0)
    /* The first word doesn't start with a dash and isn't a variable
       definition, so add a dash. */
    argv[1] = buf;

/* Parse those words. */
decode_switches (argc, argv, 1);
}

/* Quote the string IN so that it will be interpreted as a single word with
   no magic by decode_env_switches; also double dollar signs to avoid
   variable expansion in make itself. Write the result into OUT, returning
   the address of the next character to be written.
   Allocating space for OUT twice the length of IN is always sufficient. */

static char *
quote_for_env (char *out, const char *in)
{
    while (*in != '\0')
    {
        if (*in == '$')
            *out++ = '$';
        else if (ISBLANK (*in) || *in == '\\')
            *out++ = '\\';
        *out++ = *in++;
    }
}

```

```

return out;
}

/* Define the
MAKEFLAGS and MFLAGS variables to reflect the settings of the
command switches. Include options with args if ALL is nonzero.
Don't include options with the 'no_makefile' flag set if MAKEFILE. */

static struct variable *
define_makeflags (int all, int makefile)
{
    const char ref[] = "$(MAKEOVERRIDES)";
    const char posixref[] = "$(*-command-variables-*)";
    const char evalref[] = "$(*-eval-flags-*)";
    const struct command_switch *cs;
    char *flagstring;
    char *p;

    /* We will construct a linked list of 'struct flag's describing
       all the flags which need to go in MAKEFLAGS. Then, once we
       know how many there are and their lengths, we can put them all
       together in a string. */

    struct flag
    {
        struct flag *next;
        const struct command_switch *cs;
        const char *arg;
    };
    struct flag *flags = 0;
    struct flag *last = 0;
    unsigned int flagslen = 0;
#define ADD_FLAG(ARG, LEN) \
do { \
    \
    struct flag *new = alloca (sizeof (struct flag)); \
    new->cs = cs; \
    new->arg = (ARG); \
    new->next = 0; \
    if (! flags) \
        flags = new; \
    else \
        last->next = new; \
    last = new; \
    if (new->arg == 0) \
        /* Just a single flag letter: " -x" */ \
        flagslen += 3;

```

```

        \
else
    /* " -xfoo", plus space to escape "foo". */
    flagslen += 1 + 1 + 1 + (3 * (LEN));
    if (!short_option (cs->c))
        /* This switch has no single-letter version, so we use the long. */
        flagslen += 2 + strlen (cs->long_name);
} while (0)

for (cs = switches; cs->c != '\0'; ++cs)
if (cs->toenv && (!makefile || !cs->no_makefile))
switch (cs->type)
{
case ignore:
    break;

case flag:
case flag_off:
    if ((!(int *) cs->value_ptr) == (cs->type == flag_off)
        && (cs->default_value == 0
            || *(int *) cs->value_ptr != *(int *) cs->default_value))
        ADD_FLAG (0, 0);
    break;

case positive_int:
    if (all)
    {
        if ((cs->default_value != 0
            && (*(unsigned int *) cs->value_ptr
                == *(unsigned int *) cs->default_value)))
            break;
        else if (cs->noarg_value != 0
            && (*(unsigned int *) cs->value_ptr ==
                *(unsigned int *) cs->noarg_value))
            ADD_FLAG ("", 0); /* Optional value omitted; see below. */
        else
        {
            char *buf = alloca (30);
            sprintf (buf, "%u", *(unsigned int *) cs->value_ptr);
            ADD_FLAG (buf, strlen (buf));
        }
    }
    break;

#ifdef NO_FLOAT
case floating:
    if (all)
    {

```

```

        if (cs->default_value != 0
            && (*(double *) cs->value_ptr
                == *(double *) cs->default_value))
            break;

    else if (cs->noarg_value != 0
             && (*(double *) cs->value_ptr
                 == *(double *) cs->noarg_value))
        ADD_FLAG("", 0); /* Optional value omitted; see below. */
    else
    {
        char *buf = alloca (100);
        sprintf (buf, "%g", *(double *) cs->value_ptr);
        ADD_FLAG (buf, strlen (buf));
    }
}
break;
#endif

case string:
    if (all)
    {
        p = *((char **)cs->value_ptr);
        if (p)
            ADD_FLAG (p, strlen (p));
    }
    break;

case filename:
case strlist:
    if (all)
    {
        struct stringlist *sl = *(struct stringlist **) cs->value_ptr;
        if (sl != 0)
        {
            unsigned int i;
            for (i = 0; i < sl->idx; ++i)

                ADD_FLAG (sl->list[i], strlen (sl->list[i]));
        }
    }
    break;

default:
    abort ();
}

#undef ADD_FLAG

```

```

/* Four more for the possible "--", plus variable references. */
flagslen += 4 + CSTRLEN (posixref) + 1 + CSTRLEN (evalref) + 1;

/* Construct the value in FLAGSTRING.
   We allocate enough space for a preceding dash and trailing null. */
flagstring = alloca (1 + flagslen + 1);
memset (flagstring, '\0', 1 + flagslen + 1);
p = flagstring;

/* Start with a dash, for MFLAGS. */
*p++ = '-';

/* Add simple options as a group. */
while (flags != 0 && !flags->arg && short_option (flags->cs->c))
{
    *p++ = flags->cs->c;
    flags = flags->next;
}

/* Now add more complex flags: ones with options and/or long names. */
while (flags)
{
    *p++ = ' ';
    *p++ = '-';

    /* Add the flag letter or name to the string. */
    if (short_option
(flags->cs->c))
        *p++ = flags->cs->c;
    else
    {
        /* Long options require a double-dash. */
        *p++ = '-';
        strcpy (p, flags->cs->long_name);
        p += strlen (p);
    }
    /* An omitted optional argument has an ARG of "". */
    if (flags->arg && flags->arg[0] != '\0')
    {
        if (!short_option (flags->cs->c))
            /* Long options require '='. */
            *p++ = '=';
        p = quote_for_env (p, flags->arg);
    }
    flags = flags->next;
}

```

```

/* If no flags at all, get rid of the initial dash. */
if (p == &flagstring[1])
{
    flagstring[0] = '\0';
    p = flagstring;
}

/* Define MFLAGS before appending variable definitions. Omit an initial
   empty dash. Since MFLAGS is not parsed for flags, there is no reason to
   override any makefile redefinition. */
define_variable_cname ("MFLAGS",
    flagstring + (flagstring[0]
== '-' && flagstring[1] == ' ' ? 2 : 0),
    o_env, 1);

/* Write a reference to -*-eval-flags-*, which contains all the --eval
   flag options. */
if (eval_strings)
{
    *p++ = ' ';
    memcpy (p, evalref, CSTRLEN (evalref));
    p += CSTRLEN (evalref);
}

if (all && command_variables)
{
    /* Write a reference to $(MAKEOVERRIDES), which contains all the
       command-line variable definitions. Separate the variables from the
       switches with a "--" arg. */

    strcpy (p, "-- ");
    p += 4;

    /* Copy in the string. */
    if (posix_pedantic)
    {
        memcpy (p, posixref, CSTRLEN (posixref));
        p += CSTRLEN (posixref);
    }
    else
    {
        memcpy (p, ref, CSTRLEN (ref));
        p += CSTRLEN (ref);
    }
}

/* If there is a leading dash, omit it. */
if (flagstring[0] == '-')

```

```

++flagstring;

/* This used
to use o_env, but that lost when a makefile defined MAKEFLAGS.
Makefiles set MAKEFLAGS to add switches, but we still want to redefine
its value with the full set of switches. Then we used o_file, but that
lost when users added -e, causing a previous MAKEFLAGS env. var. to take
precedence over the new one. Of course, an override or command
definition will still take precedence. */
return define_variable_cname ("MAKEFLAGS", flagstring,
                             env_overrides ? o_env_override : o_file, 1);
}

/* Print version information. */

static void
print_version (void)
{
    static int printed_version = 0;

    const char *precede = print_data_base_flag ? "# " : "";

    if (printed_version)
        /* Do it only once. */
        return;

    printf ("%sGNU Make %s\n", precede, version_string);

    if (!remote_description || *remote_description == '\0')
        printf (_("%sBuilt for %s\n"), precede, make_host);
    else
        printf (_("%sBuilt
for %s (%s)\n"),
                precede, make_host, remote_description);

    /* Print this untranslated. The coding standards recommend translating the
    (C) to the copyright symbol, but this string is going to change every
    year, and none of the rest of it should be translated (including the
    word "Copyright"), so it hardly seems worth it. */

    printf ("%sCopyright (C) 1988-2016 Free Software Foundation, Inc.\n",
            precede);

    printf (_("%sLicense GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>\n\
%sThis is free software: you are free to change and redistribute it.\n\
%sThere is NO WARRANTY, to the extent permitted by law.\n"),
            precede, precede, precede);

```



```

printed_version = 1;

/* Flush stdout so the user doesn't have to wait to see the
   version information while make thinks about things. */
fflush (stdout);
}

/* Print a bunch of information about this and that. */

static void
print_data_base
(void)
{
    time_t when = time ((time_t *) 0);

    print_version ();

    printf (_("\n# Make data base, printed on %s"), ctime (&when));

    print_variable_data_base ();
    print_dir_data_base ();
    print_rule_data_base ();
    print_file_data_base ();
    print_vpath_data_base ();
    strcache_print_stats ("#");

    when = time ((time_t *) 0);
    printf (_("\n# Finished Make data base on %s\n"), ctime (&when));
}

static void
clean_jobserver (int status)
{
    /* Sanity: have we written all our jobserver tokens back? If our
       exit status is 2 that means some kind of syntax error; we might not
       have written all our tokens so do that now. If tokens are left
       after any other error code, that's bad. */

    if (jobserver_enabled() && jobserver_tokens)
    {
        if (status != 2)
            ON (error, NILF,
                "INTERNAL: Exiting with %u jobserver tokens (should be 0)!",
                jobserver_tokens);
        else
            /* Don't write back the "free"
            token */
            while (--jobserver_tokens)

```

```

    jobserver_release (0);
}

/* Sanity: If we're the master, were all the tokens written back? */

if (master_job_slots)
{
    /* We didn't write one for ourself, so start at 1. */
    unsigned int tokens = 1 + jobserver_acquire_all ();

    if (tokens != master_job_slots)
        ONN (error, NILF,
            "INTERNAL: Exiting with %u jobserver tokens available; should be %u!",
            tokens, master_job_slots);

    reset_jobserver ();
}
}

/* Exit with STATUS, cleaning up as necessary. */

void
die (int status)
{
    static char dying = 0;

    if (!dying)
    {
        int err;

        dying = 1;

        if (print_version_flag)
            print_version ();

        /* Wait for children to die. */
        err = (status != 0);
        while (job_slots_used > 0)
            reap_children (1, err);

        /* Let the remote job module clean up its state. */
        remote_cleanup
    ();

    /* Remove the intermediate files. */
    remove_intermediates (0);
}

```

```

if (print_data_base_flag)
    print_data_base ();

if (verify_flag)
    verify_file_data_base ();

clean_jobserver (status);

if (output_context)
{
    /* die() might be called in a recipe output context due to an
       $(error ...) function. */
    output_close (output_context);

    if (output_context != &make_sync)
        output_close (&make_sync);

    OUTPUT_UNSET ();
}

output_close (NULL);

/* Try to move back to the original directory. This is essential on
   MS-DOS (where there is really only one process), and on Unix it
   puts core files in the original directory instead of the -C
   directory. Must wait until after remove_intermediates(), or unlinks
   of relative pathnames fail. */
if (directory_before_chdir != 0)
{
    /* If it fails we don't care: shut up GCC. */
    int _x UNUSED;
    _x = chdir (directory_before_chdir);
}
}

exit (status);
}

```

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## 1.232 libcgroup 0.41-r0

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Upstream-Contact: Yann Collet <Cyan4973@github.com>

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

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

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

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

The hypothetical commands `show w' and



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

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

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

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

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

## 1.240 libnewt 0.52.20-r0

### 1.240.1 Available under license :

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

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

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

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

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

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When a "work that uses the Library" uses material from a header file

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<signature of Ty Coon>, 1 April 1990  
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# 1.241 polycoreutils 2.8-r0

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an offer, in accord with Subsection b above.)

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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.

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

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

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

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## 1.243 libmnl 1.0.4-r0

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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.

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;*!;_>KfBqxYm+sS|11np#_(~*'uM%S61opMG`\"YfRXvY[R+t[ BS=)d
;*!;_>KfBqxY(F|0.Ve%S61opMG`\"YfRXvY[R+t[ BS=)d;*!;_>KfBqxY(F|0.Ve%Q?
*sS|11np#_(~*'u7gi){IgYZ
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```

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Any executables

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## 1.249 systemd 239-r0

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/\* \$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp \$ \*/

/\*

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*/

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifndef HAVE_POLL_H
#define HAVE_POLL_H

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not
standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H */
#endif /* !HAVE_POLL_H */

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*
*/

```

```

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

```

```

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

```

```

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

```

```

/* Prototype */
pid_t waitpid(int,
int *, int);

```

```

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
/*

```

```

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*/

```

```

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

```

## 1.257 jansson 2.11-r0

### 1.257.1 Available under license :

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## 1.258 ntp 4.2.8p13-r0

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/\* -\*- Mode: Text -\*- \*/

```
copyright = {  
  date = "1992-2017";  
  owner = "The University of Delaware and Network Time Foundation";  
  eaddr = "http://bugs.ntp.org, bugs@ntp.org";  
  type = ntp;  
};
```

```
long-opts;  
config-header = config.h;  
environrc;  
no-misuse-usage;
```



```
version-proc = ntpOptionPrintVersion;
```

```
version      = `  
eval VERSION=`sed -e 's/.*,\\[/ -e 's\\[.*/' < ../sntp/m4/version.m4`  
[ -z "${VERSION}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid  
echo $VERSION`;
```

```
version-value = "; /* Don't use -v as a shortcut for --version */
```

```
/*
```

```
* HMS: man pages already have this, and texi pages can use the
```

```
* values in sntp/include/version.texi .
```

```
*/
```

```
// doc-sub = {
```

```
//   sub-name = version;
```

```
//   sub-text = 's/#VERSION#/<<version>>/g';
```

```
// };
```

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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
```

```
<html>
```

```
<head>
```

```

<meta http-equiv="content-type" content="text/html; charset=iso-8859-1">
<title>Copyright Notice</title>
<!-- Changed by: Harlan Stenn, 10-Mar-2014 -->
<link href="scripts/style.css" type="text/css" rel="stylesheet">
</head>
<body>
<h3>Copyright Notice</h3>
 "Clone me," says Dolly sheepishly.
<p>Last update:
<!-- #BeginDate format:En2m -->2-Jan-2017 11:58<!-- #EndDate -->
    UTC</p>
<br clear="left">
</p>
<hr>
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<li><a href="mailto:%20Marc.Brett@westgeo.com">Marc Brett <Marc.Brett@westgeo.com></a> Magnavox GPS
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<li><a href="mailto:%20Piete.Brooks@cl.cam.ac.uk">Piete Brooks <Piete.Brooks@cl.cam.ac.uk></a> MSF clock
driver, Trimble PARSE support</li>
<li><a href="mailto:%20nelson@bolyard.me">Nelson B Bolyard <nelson@bolyard.me></a> update and complete

```

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- <li><a href="mailto:%20clift@ml.csiro.au">Steve Clift <clift@ml.csiro.au></a> OMEGA clock driver</li>
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- <li><a href="mailto:%20lindholm@ucs.ubc.ca">George Lindholm <lindholm@ucs.ubc.ca></a> SunOS 5.1 port</li>
- <li><a href="mailto:%20louie@ni.umd.edu">Louis A. Mamakos <louie@ni.umd.edu></a> MD5-based authentication</li>
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29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
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Alan Cox <alan@lxorguk.ukuu.org.uk>

Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch

Hardware I2C

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Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>

Ragnar Hojland Espinosa <ragnar@macula.net>

ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

/\* 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.

\* <http://www.hypermall.com/>

\* 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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</appendix>

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#define \_\_LICENSE\_H

static inline int license\_is\_gpl\_compatible(const char \*license)

{

return (strcmp(license, "GPL") == 0

|| strcmp(license, "GPL v2") == 0

|| strcmp(license, "GPL and additional rights") == 0

|| strcmp(license, "Dual BSD/GPL") == 0

|| strcmp(license, "Dual MIT/GPL") == 0

|| strcmp(license, "Dual MPL/GPL") == 0);

}

#endif

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for CyberLogin for Linux which allows logging onto EON  
(in case you are wondering where CyberLogin is, EON changed its login  
procedure and CyberLogin is no longer used.)

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for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop  
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```

```
{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
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## 1.262 python3-asn1crypto 0.24.0-r0

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# 1.264 nghttp2 1.39.2-r0

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```
set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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```

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## 1.265 cpp 8.2.0-r0

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## Constant-time SSSE3 AES core implementation.

## version 0.1

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## By Mike Hamburg (Stanford University), 2009

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## 1.267 tcp-wrappers 7.6-r10

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# 1.268 libnl3 3.4.0-r0

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Version 2.1, February 1999

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## 1.269 libxml 2.9.8-r0

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Ty Coon, President of Vice

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# 1.271 libaio 0.3.111-r0

## 1.271.1 Available under license :

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Version 2.1, February 1999

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## 1.272 tftp-hpa 5.2-r0

### 1.272.1 Available under license :

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```
## Copyright 2001-2007 H. Peter Anvin - All Rights Reserved
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```

Found in path(s):

\* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/MCONFIG.in

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

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

Found in path(s):

\* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.c

\* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.h

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

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



Name: tftp  
Version: @@VERSION@@  
Release: 1  
License: BSD  
Group: Applications/Internet  
Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>  
BuildRequires: tcp\_wrappers-devel  
BuildRoot: %{\_tmppath}/%{name}-root

%description

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

%package server

Group: System Environment/Daemons  
Summary: The server for the Trivial File Transfer Protocol (TFTP).  
Requires: xinetd

%description server

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

%prep

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

%build

%configure

make %{?\_smp\_mflags}

%install

rm -rf \${RPM\_BUILD\_ROOT}  
mkdir -p \${RPM\_BUILD\_ROOT}%{\_bindir}  
mkdir -p \${RPM\_BUILD\_ROOT}%{\_mandir}/man{1,8}  
mkdir -p \${RPM\_BUILD\_ROOT}%{\_sbindir}

make INSTALLROOT=\${RPM\_BUILD\_ROOT} \  
SBINDIR=%{\_sbindir} MANDIR=%{\_mandir} \  
install

install -m755 -d \${RPM\_BUILD\_ROOT}%{\_sysconfdir}/xinetd.d/ \${RPM\_BUILD\_ROOT}/tftpboot

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

```
%post server
```

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

```
%postun server
```

```
if [ $1 = 0 ]; then
```

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

```
fi
```

```
%clean
```

```
rm -rf ${RPM_BUILD_ROOT}
```

```
%files
```

```
%defattr(-,root,root)
```

```
%{_bindir}/tftp
```

```
%{_mandir}/man1/*
```

```
%files
```

```
server
```

```
%defattr(-,root,root)
```

```
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
```

```
%dir /tftpboot
```

```
%{_sbindir}/in.tftpd
```

```
%{_mandir}/man8/*
```

```
%changelog
```

```
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
```

```
- removed completely broken "Malta" patch.
```

```
- integrated into build machinery so rpm -ta works.
```

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

```
- rebuilt
```

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

```
- rebuilt
```

```
* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
```

```
- 0.33
```

```
- Add /tftpboot directory (#88204)
```

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

```
- rebuilt
```

```
* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
```

```
- add BuildPreReq on tcp_wrappers
```

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

- rebuilt

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

- Update to 0.32

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

- Fix #55789

- Update to 0.30

\* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>

- Try applying HJ's patch from #65476

\*

Fri Jun 21 2002 Tim Powers <timp@redhat.com>

- automated rebuild

\* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>

- Update to 0.29

\* Thu May 23 2002 Tim Powers <timp@redhat.com>

- automated rebuild

\* Wed Jan 09 2002 Tim Powers <timp@redhat.com>

- automated rebuild

\* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15

- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562

- Update to tftp-hpa-0.28 (bug #56131)

- Remove include/arpa/tftp.h to fix #57259

- Add resource limits in tftp-xinetd (#56722)

\* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>

- Bump release + rebuild.

\* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)

- updated tftp-hpa source to tftp-hpa-0.17

- tweaked specfile with different defines for tftp-netkit and tftp-hpa version

- use hpa's tftpd.8 man page instead of the netkits one

\* Mon May 07 2001 Helge Deller <hdeller@redhat.de>

- rebuilt in 7.1.x

\* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>

- fix tftp client's put problems (#29529)

-

update to tftp-hpa-0.16

\* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>

- don't let configure to guess compiler, it can pick up egcs

\* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>

- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

\* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>

- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

\* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>

- xinetd shouldn't wait on tftp (which forks) (#23923).

\* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>

- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

\* Wed Aug

23 2000 Nalin Dahyabhai <nalin@redhat.com>

- default to being disabled

\* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>

- correct group.

\* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>

- change user from root to nobody

\* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>

- update to tftp-hpa-0.14 (#14003).
- add server\_args (#14003).
- remove -D\_BSD\_SOURCE (#14003).

\* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>

- cook up an xinetd config file for tftpd

\* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>

- automatic rebuild

\* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>

- FHS packaging.
- update to 0.17.

\* Fri May 5 2000 Matt Wilson <msw@redhat.com>

- use \_BSD\_SOURCE for hpa's tftpd so we get BSD signal semantics.

\* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>

- fix description

\* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>

- compress man pages (again).

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

- man pages are compressed

- fix description and summary

\*

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

- split client and server

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

- update to 0.16.

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

- update to 0.15.

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

- tftpd should truncate file when overwriting (#412)

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

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

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

- compile for 6.0.

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

- build root

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

- translations modified for de, fr, tr

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

- added check for getpwnam() failure

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

- initial build

Found in path(s):

\* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftp.spec.in

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

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Found in path(s):

\* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.8.in  
No license file was found, but licenses were detected in source scan.

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

Found in path(s):

\* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/misc.c  
\* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/remap.c  
\* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/remap.h  
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*  
* ----- */
```

Found in path(s):

\* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.h  
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- \*/

Found in path(s):

- \* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/common/tftpsubs.c
- \*
  - /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftp/tftp.c
  - \* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftp/main.c

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- \*/

Found

in path(s):

\* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.c

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*/

```

Found in path(s):

```

* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftp/extern.h
*
/e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/common/tftpsubs.h
No license file was found, but licenses were detected in source scan.

```

```

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*
* ----- */

```

Found in path(s):

```

* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/config.h
No license file was found, but licenses were detected in source scan.

```

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

Name: tftp

Version: 5.2

Release: 1

License: BSD

Group: Applications/Internet

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

BuildRequires: tcp\_wrappers-devel

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

%description

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

%package server

Group: System Environment/Daemons

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

Requires: xinetd

%description server

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

%prep

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

%build

%configure

make %{?\_smp\_mflags}

%install

rm -rf \${RPM\_BUILD\_ROOT}

mkdir -p \${RPM\_BUILD\_ROOT}%{\_bindir}

mkdir -p \${RPM\_BUILD\_ROOT}%{\_mandir}/man{1,8}

mkdir -p \${RPM\_BUILD\_ROOT}%{\_sbindir}

make INSTALLROOT=\${RPM\_BUILD\_ROOT} \

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

install

install -m755 -d \${RPM\_BUILD\_ROOT}%{\_sysconfdir}/xinetd.d/ \${RPM\_BUILD\_ROOT}/tftpboot

install -m644 tftp-xinetd \${RPM\_BUILD\_ROOT}%{\_sysconfdir}/xinetd.d/tftp

%post server

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

%postun server

if [ \$1 = 0 ]; then

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

fi

```

%clean
rm -rf ${RPM_BUILD_ROOT}

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

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

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

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

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

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

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

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

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

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

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

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>

```

- Try applying HJ's patch from #65476
  
- \* Fri Jun  
21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild
  
- \* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29
  
- \* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild
  
- \* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild
  
- \* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
  - Add resource limits in tftp-xinetd (#56722)
  
- \* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.
  
- \* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one
  
- \* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x
  
- \* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
  - fix tftp client's put problems (#29529)
  - update  
to tftp-hpa-0.16
  
- \* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up egcs
  
- \* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
  - fixed hpa-tftpd to handle files greater than 32MB (#23725)
  - added "-l" flag to hpa-tftpd for file-logging (#26467)
  - added description for "-l" to the man-page
  
- \* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - updated tftp client to 0.17 stable (#19640),

- drop dependency on xinetd for tftp client (#25051),
  
- \* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).
  
- \* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.
  
- \* Wed Aug 23 2000
- Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled
  
- \* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.
  
- \* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody
  
- \* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server\_args (#14003).
- remove -D\_BSD\_SOURCE (#14003).
  
- \* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd
  
- \* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild
  
- \* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.
  
- \* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use \_BSD\_SOURCE for hpa's tftpd so we get BSD signal semantics.
  
- \* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description
  
- \* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).
  
- \* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary

- \* Tue  
Jan 4 2000 Bill Nottingham <notting@redhat.com>  
- split client and server
- \* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>  
- update to 0.16.
- \* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>  
- update to 0.15.
- \* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>  
- tftpd should truncate file when overwriting (#412)
- \* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>  
- auto rebuild in the new build environment (release 22)
- \* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>  
- compile for 6.0.
- \* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>  
- build root
- \* Mon Apr 27 1998 Prospector System <bugs@redhat.com>  
- translations modified for de, fr, tr
- \* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>  
- added check for getpwnam() failure
- \* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>  
- initial build

Found in path(s):

\* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftp.spec  
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```

Found in path(s):

\* /e7879f0bdab1fc6f226db6f6f848d58f50548de4-tftp-hpa-5-2-1-tar-bz2/tftp-hpa-5.2/tftp/tftp.1.in

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Sensor Addition

Version: 2.1.8.9pre14a

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I appreciate your maintaining the version string guidelines as specified in the copyright. But I did not mean them to last as long as they did.

So, if you want, you may use any 2.N.\* (N >= 3) version string for future xinetd versions that you release. Note that I am excluding the 2.2.\* line; using that would only create confusion. Naming the next release 2.3.0 would put to rest the confusion about 2.2.1 and 2.1.8.\*. This software is

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## 1.274 yajl 2.1.0-r0

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## 1.275 Imsensors-config 1.0-r0

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## 1.276 python-backports-lzma 0.0.3-r0

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lib/snprintf.c, lib/snprintf.h:

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tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.

Version: 1.1.2

Entered-date: 23MAR97

Description: C-functions for parsing command line options, both  
traditional one-character options, and GNU'ish  
--long-options.

Keywords: programming, library, lib, commandline, options

Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)

Primary-site: <http://www.ifi.uio.no/~sverrehu/pub-unix/>

Alternate-site: [sunsite.unc.edu/pub/Linux/libs](http://sunsite.unc.edu/pub/Linux/libs)  
shhopt-1.1.2.tar.gz

Platforms: Requires ANSI C-compiler.

Copying-policy: BeerWare: If you have the time and  
money, send me a bottle  
of your favourite beer. If not, just send me a mail or  
something. Copy and use as you wish; just leave the  
author's name where you find it.

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## 1.280 email 4.0.2-r0

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Return-Path: <barry@python.org>

Delivered-To: barry@python.org

Received: by mail.python.org (Postfix, from userid 889)  
id C2BF0D37C6; Tue, 11 Sep 2001 00:05:05 -0400 (EDT)

MIME-Version: 1.0

Content-Type: multipart/mixed; boundary="h90V8IIKmx"

Content-Transfer-Encoding: 7bit

Message-ID: <15261.36209.358846.118674@anthem.python.org>

From: barry@python.org (Barry A. Warsaw)

To: barry@python.org

Subject: a simple multipart

Date: Tue, 11 Sep 2001 00:05:05 -0400

X-Mailer: VM 6.95 under 21.4 (patch 4) "Artificial Intelligence" XEmacs Lucid

X-Attribution: BAW

X-Oblique-Strategy: Make a door into a window



--h90V8IIKmx  
Content-Type: text/plain  
Content-Disposition: inline;  
filename="msg.txt"  
Content-Transfer-Encoding: 7bit

a simple kind of mirror  
to reflect upon our own

--h90V8IIKmx  
Content-Type: text/plain  
Content-Disposition: inline;  
filename="msg.txt"  
Content-Transfer-Encoding: 7bit

a simple kind of mirror  
to reflect  
upon our own

--h90V8IIKmx--

Found in path(s):  
\* /email-4-0-2-r0-tar-bz2/email-4.0.2-r0/email/test/data/msg\_04.txt  
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Return-Path: <barry@python.org>  
Delivered-To: barry@python.org  
MIME-Version: 1.0  
Content-Type: message/rfc822  
Content-Description: forwarded message  
Content-Transfer-Encoding: 7bit  
Message-ID: <15265.9482.641338.555352@python.org>  
From: barry@zope.com (Barry A. Warsaw)  
Sender: barry@python.org  
To: barry@python.org  
Subject: forwarded message from Barry A. Warsaw  
Date: Thu, 13 Sep 2001 17:28:42 -0400  
X-Mailer: VM 6.95 under 21.4 (patch 4) "Artificial Intelligence" XEmacs Lucid  
X-Attribution: BAW  
X-Oblique-Strategy: Be dirty  
X-Url: http://barry.wooz.org

MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Return-Path: <barry@python.org>  
Delivered-To: barry@python.org

Message-ID: <15265.9468.713530.98441@python.org>  
From: barry@zope.com (Barry A. Warsaw)  
Sender: barry@python.org  
To: barry@python.org  
Subject: testing  
Date: Thu, 13 Sep 2001 17:28:28 -0400  
X-Mailer: VM 6.95 under 21.4 (patch 4) "Artificial Intelligence"  
XEmacs Lucid  
X-Attribution: BAW  
X-Oblique-Strategy: Spectrum analysis  
X-Url: http://barry.wooz.org

Found in path(s):

\* /email-4-0-2-r0-tar-bz2/email-4.0.2-r0/email/test/data/msg\_06.txt

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Return-Path: <barry@python.org>  
Delivered-To: barry@python.org  
Received: by mail.python.org (Postfix, from userid 889)  
id C2BF0D37C6; Tue, 11 Sep 2001 00:05:05 -0400 (EDT)  
MIME-Version: 1.0  
Content-Type: multipart/mixed; boundary="h90VIIKmx"  
Content-Transfer-Encoding: 7bit  
Message-ID: <15261.36209.358846.118674@anthem.python.org>  
From: barry@python.org (Barry A. Warsaw)  
To: barry@python.org  
Subject: a simple multipart  
Date: Tue, 11 Sep 2001 00:05:05 -0400  
X-Mailer: VM 6.95 under 21.4 (patch 4) "Artificial Intelligence" XEmacs Lucid  
X-Attribution: BAW  
X-Oblique-Strategy: Make a door into a window

--h90VIIKmx  
Content-Type: text/plain  
Content-Disposition: inline; name="msg.txt"  
Content-Transfer-Encoding: 7bit

a simple kind of mirror  
to reflect upon our own

--h90VIIKmx  
Content-Type: text/plain  
Content-Disposition: inline; name="msg.txt"  
Content-Transfer-Encoding: 7bit

a simple kind of mirror  
to reflect upon our

own

--h90V8IIKmx--

Found in path(s):

\* /email-4-0-2-r0-tar-bz2/email-4.0.2-r0/email/test/data/msg\_44.txt

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Metadata-Version: 1.0

Name: email

Version: 4.0.2

Summary: Standalone email package

Home-page: <http://www.python.org/sigs/email-sig>

Author: Email SIG

Author-email: [email-sig@python.org](mailto:email-sig@python.org)

License: Python software Foundation

Description: This is the standalone email package. This is a copy of what's available in Python but you may want to use the standalone version if you want the latest and greatest email package, even in older Pythons.

Keywords: email

Platform: UNKNOWN

Found in path(s):

\* /email-4-0-2-r0-tar-bz2/email-4.0.2-r0/email.egg-info/PKG-INFO

\* /email-4-0-2-r0-tar-bz2/email-4.0.2-r0/PKG-INFO

## 1.281 opkg-arch-config 1.0-r1

## 1.282 ptest-runner 2.2-r0

## 1.283 netcat-openbsd 1.190-r0

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

Source: <http://www.openbsd.org/cgi-bin/cvsweb/src/usr.bin/nc/>

Files: netcat.c

Copyright: 2001 Eric Jackson <[ericj@monkey.org](mailto:ericj@monkey.org)>

License: BSD-3-Clause

Files: nc.1

Copyright: 1996 David Sacerdote

License: BSD-3-Clause

Files: atomicio.\*

Copyright: 2006 Damien Miller  
2005 Anil Madhavapeddy  
1995,1999 Theo de Raadt

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Files: socks.c

Copyright: 1999 Niklas Hallqvist  
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Files: Makefile

Copyright: The OpenBSD project

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Files: debian/\*

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## 1.284 python-iso8601 0.1.12-r0

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## 1.288 go-fsnotify 1.2.11-r0

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# 1.289 python-greenlet 0.4.14-r0

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## 1.293 runc-opencontainers 1.0.0-rc6-r0

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## 1.294 page-types 1.0-r0

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## 1.298 systemd-conf 1.0-r0

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/\*"), Steve P. Miller (Pocket UnZip GUI "wince/\*"), and Mark Adler (inflate/explode decompression



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

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

---

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

5.42, the complete

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

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

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

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- \* MoreFiles
- \*
- \* A collection of File Manager and related routines
- \*
- \* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
- \* with significant code contributions by Nitin Ganatra
- \* (Apple Macintosh Developer Technical Support Emeritus)
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- \*
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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

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

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

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-----

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

-----

# 1.303 python-pyserial 3.4-r0

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## 1.305 dtc 1.4.7-r0

## 1.306 gtest 1.8.0-r0

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## 1.308 rpm 4.14.2-r0

## 1.309 go-patricia 2.2.6-r0

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## 1.314 shadow-securetty 4.6-r3

## 1.315 grpc-go 1.4.0-r0

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# 1.318 python-pytest 3.4.2-r0

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## 1.320 python-ply 3.11-r0

## 1.321 stunserver 1.2.15-r0

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# 1.323 psmisc 23.1-r0

## 1.324 file 5.34-r0

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## 1.328 rrdtool 1.7.0-r0

## 1.329 cJSON 1.7.10-r0

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# 1.331 python-decorator 4.3.0-r0

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## 1.335 rdma-cm 18.4-r0

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## 1.337 python-pytz 2018.5-r0

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## 1.338 update-rc-d 0.8-r0

## 1.339 kernel-devsrc 1.0-r0

## 1.340 python-ipaddress 1.0.22-r0

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## 1.341 ca-certificates 20190110-r0

## 1.342 run-postinsts 1.0-r10

## 1.343 libnss-nis 3.0-r0

# 1.344 python-six 1.11.0-r0

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# 1.345 python-pyasn1 0.4.4-r0

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## 1.346 go-logrus 0.11.0-r0

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## 1.347 shadow-sysroot 4.6-r3

## 1.348 kmod 25-r0

## 1.349 btrfs-tools 4.17.1-r0

## 1.350 go-cli 1.1.0-r0

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## 1.351 libxcrypt 4.1.1-r0

## 1.352 libhugetlbfs 2.21-r0

# 1.353 python-pycparser 2.18-r0

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pycparser -- A C parser in Python

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# 1.354 libxml-parser-perl 2.44-r0

# 1.355 libnsl 1.2.0-r0

# 1.356 tipc-utils 2.2.0-r0

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