Open Source Used In Butterfly Web Application Release 4.0

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The product also uses the Linux operating system, Ubuntu 18.04.1 Server ISO 18.04.1. Information on this distribution is available at http://releases.ubuntu.com/18.04/. The full source code for this distribution, including copyright and license information, is available on request from opensource-requests@external.cisco.com. Mention that you would like the Linux distribution source archive, and quote the following reference number for this distribution: 186724131-206415032.

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## 1.4 Python 3.7.3

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**History and License**

**History of the software**

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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Mersenne Twister
----------------
.. parsed-literal::

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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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
e-mail: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The `mod:` socket module uses the functions, :func:`getaddrinfo`, and
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-------------------------------

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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard
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-------------

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---------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
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  djb (supercop/crypto_auth/siphash24/little2)
  Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
-------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
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cfuhash

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

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

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ELF>@@
H1@@<@@<t9uHtHShq_uHDP4L@Et2:P u-
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CHH
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D$SpDSH0Ht@DSLDSdSDPSD]DSV]@SDTSHD$8HDS@DSWSDSZSDSXS][SDSDYSdH]Ht2HHH31HHHtHH
HkH1HHuH][EIStHtpHk1HtH]
khHDDSHDS8H=IHHIE1IHSHPpH HH
H3HAHHLdSpPH]LHDSLaChtSHLHHH][SpHTSHSLIE]1E1MuaIMtHDL_L]DSDSS]L,LSS
IvL]LTSADAFIVGBL]S[DDSS]L,LL LTSLA1~M6j
jAALH]HzyH[SpAH][SpHE[1111111HHHD$DsSpHt$AEAEA]AEAEHH
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AEEHH1H1]H0H]A[A]A^A_AWAVAAUATUSHHH9HHHHHHH8u7'H;HHLuuhL+cH;HHHHHHHHHHu
HtP1PHSHHLOH1A1PHSDAs1HSIDSHSHASSIDS1SHHSA11AS%SIDHH]SPHHH][SpuH1HtSPH][SPAA
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LxH@tMdLR(LTS1LHLLTTSQ4Mr[1H]$DIL1HPP@tHufFEHTS
filename expected your CPU does not implement AMD64 architecture kern_start = 0x1x, kern_end = 0x1x
bsdloader/i386/bsd.c invalid arch-dependent ELF magic premature end of file %s invalid a.out header
load address below 1M you need to load the kernel first so openBSD loadedyour openBSD doesn't support ramdisk
your openBSD supports ramdisk only up to %u bytes, however you supplied a %u bytes onec only FreeBSD supports
module only elf kernel supports module only FreeBSD supports environment.
freesBSD supports entries in smap
textgfxpayload %s; 800x600; 800x600; Booting in blind mode
compcmdlen too long netbsd only device specifications of form <type><number><lowercase letter> are supported
only com0-com3 are supported unknown disk type name kFreeBSD./boot/zfs/zpool.cacheraw no
FreeBSD loaded type=elf64 kernel elf kernel
zfsgzio Load kernel of FreeBSD.FILE
kfreebsd Load kernel of OpenBSD.
kopenbsd Load kernel of NetBSD.
knetbsd Load FreeBSD env.
kfreebsd_loadenv Load FreeBSD kernel module.
kfreebsd_module_load NetBSD kernel module.
kfreebsd_module_load NetBSD kernel module (ELF). Load FreeBSD kernel module
(ELF).kfreebsd_module_elf Load kOpenBSD ramdisk.kopenbsd ramdiskwdfdsdcvndrndo-smpDisable SMP.no
acpiDisable ACPI. askname Ask for file name to reboot from. halt Don't reboot, just halt.
config Change configured devices. kdb Enter in KDB on boot. minirootquiet Don't display boot diagnostic
messages. singleBoot into single mode. verbose Boot with verbose messages. silent Suppress normal output (warnings
Display output on all consoles.cdromUse CD-ROM as root. Invoke user configuration routing gdbUse GDB remote
debugger instead of DDB.mute Disable all boot output. nointerruptWait for keypress after every line of output.
dftrrootUse compiled in root device. premature end of file %s invalid arch-independent ELF magic
invalid arch-dependent ELF magic no symbol table_DYNAMIC dynamic = 0x1x
bsdloader/i386/bsd32.c loading section to 0x1x, size 0xd, align 0xd
bsdloader/i386/bsd64.c elf module rd_root_imaged_root_size unexpected size of rd_root_size
premature end of file %s invalid arch-independent ELF magic invalid arch-dependent ELF magic symbol table
_DYNAMIC dynamic = 0x1x
bsdloader/i386/bsd64.c elf obj module expected size of
2.1 adduser 3.116ubuntu1

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<imurdock@debian.org> and was maintained by Steve Phillips
<sjp@cvfn.org> from sources written for the Debian Project by Ian
Murdock, Ted Hajek <tedhajek@boombox.micro.umn.edu>, and Sven Rudolph
<sr1@inf.tu-dresden.de>.

Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He
rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauschmidt
<rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauschmidt
<rb@debian.org>, and co-maintained by Marc Haber
<mh+debian-packages@zugschlus.de>.

Since 23 Oct 2005, it has been maintained by Joerg Hoh <joerg@joerghoh.de>
Since June 2006, it has been maintained by Stephen Gran <sgran@debian.org>
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2.2 alsa 1.1.3-5ubuntu0.2

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Return-Path: <liam.r.girdwood@linux.intel.com>
Delivered-To: jordi@mallach.net
Received: from mailly.debian.org (mailly.debian.org
(Postfix) with ESMTPS id AC49F851E5 for <jordi@mallach.net>; Tue, 24 Jan
2017 15:59:16 +0100 (CET)
Received: from mga03.intel.com ([134.134.136.65])
by mailly.debian.org with esmtps (TLS1.2:ECDHE_RSA_AES_256_GCM_SHA384:256)
(Postfix) with ESMTPS id AC49F851E5 for <jordi@mallach.net>; Tue, 24 Jan
2017 15:59:16 +0100 (CET)
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by mailly.debian.org with esmtps (TLS1.2:ECDHE_RSA_AES_256_GCM_SHA384:256)
(Exim 4.84.2)
(id 1cW2Z1-0003Ok-6u)
for jordi@mallach.net; Tue, 24 Jan 2017 14:59:15 +0000
Received: from fmsmga003.fm.intel.com ([10.253.24.29])
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Signed-off-by: Liam Girdwood <liam.r.girdwood@linux.intel.com>

---
src/topology/builder.c | 17 +++++++++++++++++++
src/topology/channel.c | 17 ++++++++++++++++++
src/topology/ctl.c      | 17 ++++++++++++++++     
src/topology/dapm.c    | 17 +++++++++++++++++++
src/topology/data.c    | 17 +++++++++++++++++++
src/topology/elem.c    | 17 +++++++++++++++++++
src/topology/ops.c     | 17 ++++++++++++++++++
src/topology/parser.c  | 17 +++++++++++++++++++
src/topology/pcm.c     | 17 +++++++++++++++++++
src/topology/text.c    | 17 ++++++++++++++++++++
diff --git a/src/topology/builder.c b/src/topology/builder.c
index 20fa925..dcd9e2a 100644
--- a/src/topology/builder.c
+++ b/src/topology/builder.c
@@ -2,14 +2,15 @@
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Yao Jin <yao.jin@intel.com>

diff --git a/src/topology/channel.c b/src/topology/channel.c
index c2f1fea..8516b23 100644
--- a/src/topology/channel.c
+++ b/src/topology/channel.c
@@ -2,14 +2,15 @@
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Yao Jin <yao.jin@intel.com>
diff --git a/src/topology/ctl.c b/src/topology/ctl.c
index 907a97f..1da3d18 100644
--- a/src/topology/ctl.c
+++ b/src/topology/ctl.c
@@ -2,14 +2,15 @@
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Yao Jin <yao.jin@intel.com>
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index 8c585a7..eeef72bb 100644
--- a/src/topology/dapm.c
+++ b/src/topology/dapm.c
@@ -2,14 +2,15 @@
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Yao Jin <yao.jin@intel.com>

diff --git a/src/topology/data.c b/src/topology/data.c
index 0d5c430..e2aa38c 100644
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@@ -2,14 +2,15 @@

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Authors: Mengdong Lin <mengdong.lin@intel.com>
Yao Jin <yao.jin@intel.com>

diff --git a/src/topology/connors.c b/src/topology/connors.c
index 7f93ba0..3f0f3f2 100644
--- a/src/topology/ops.c
+++ b/src/topology/ops.c
@@ -2,14 +2,15 @@
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     Yao Jin <yao.jin@intel.com>
diff --git a/src/topology/ops.c b/src/topology/ops.c
index 1b5c1e2..6f8dc1f 100644
--- a/src/topology/ops.c
+++ b/src/topology/ops.c
@@ -2,14 +2,15 @@
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diff --git a/src/topology/parser.c b/src/topology/parser.c
index c5f9757..cfc20e0 100644
--- a/src/topology/parser.c
+++ b/src/topology/parser.c
@@ -2,14 +2,15 @@

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diff --git a/src/topology/pcm.c b/src/topology/pcm.c
index 8f8a703..5568d57 100644
--- a/src/topology/pcm.c
+++ b/src/topology/pcm.c
@@ -2,14 +2,15 @@

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diff --git a/src/topology/text.c b/src/topology/text.c
index 303fbeb..cba6887 100644
--- a/src/topology/text.c
+++ b/src/topology/text.c
@@ -2,14 +2,15 @@
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Upstream-Contact: Jarsolav Kysela <perex@suse.cz>
Comment: This package was debianized by Wichert Akkerman 7 Jun 1998. Masato Taruishi took over on 17 Oct 1999. Since September 2002 it has been maintained by the participants in the pkg-alsa project at alioth.debian.org.

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### 2.4 apparmor 2.12-4ubuntu5.1

#### 2.4.1 Available under license:

From: intrigeri <intrigeri@boum.org>  
Date: Fri, 19 Jan 2018 08:22:35 +0000  
Subject: [PATCH] Install pam_apparmor.so with write permission for its owner.

I could not find the reason why the upstream Makefile has been installing it with permissions 555: this predates the migration from SVN.

Regardless, at least on Debian and derivatives, dh_fixperms has been changing these permissions to 755 forever so it was causing problems, likely we would know about it by now.

The initial motivation for this change is supporting rootless builds on Debian and derivatives, also known as "Rules-Requires-Root: no":

- /usr/share/doc/dpkg-dev/rootless-builds.txt* on a Debian system  
  with a sufficiently recent dpkg-dev installed  

With this change applied upstream, Debian-based downstreams don't need to adjust their debian/rules to make this work with "Rules-Requires-Root: no":

    chrpath -d $(CURDIR)/debian/tmp/lib/security/pam_apparmor.so

Origin: upstream, https://gitlab.com/apparmor/apparmor/commit/6ab19ea82fe57a69dfb0f3af92e8f5892e3fe9f4

---

changehat/pam_apparmor/Makefile | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)
diff --git a/changehat/pam_apparmor/Makefile b/changehat/pam_apparmor/Makefile
index be5e73c..61b949c 100644
--- a/changehat/pam_apparmor/Makefile
+++ b/changehat/pam_apparmor/Makefile
@@ -82,7 +82,7 @@ SECDIR ?= ${DESTDIR}/lib/security
 .PHONY: install
 install: $(NAME).so
 install -m 755 -d $(SECDIR)
-install -m 555 $(NAME).so $(SECDIR)/
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2.9 base-files 10.1ubuntu2.1

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Version 2, June 1991

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Appendix: How to Apply These Terms to Your New Programs

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

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

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2.10 bash 5.0.7
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2.15 bgaes 1.16-2ubuntu0.1

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Assigns past and future changes. (g10/compress.c, g10/encr-data.c,
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ANY  g10 Code GmbH  2001-06-07
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LIBGCRYPT Moritz Schulte  2003-04-17
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GNUTLS  Nikolaos Mavrogiannopoulos  2003-11-22
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LIBGCRYPT The Written Word  2005-04-15
Assigns past and future changes. (new: src/libgcrypt.pc.in,
src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,
mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S,
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

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2.17 bind 9.10.3.dfsg.P4-8ubuntu1.10

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2.18 bsdmainutils 11.1.2ubuntu1

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Then the package has been maintained by Charles Briscoe-Smith <cpbs@debian.org>. I gathered data for the 1999-2001 calendar files from various sources on the Internet, and I'd also like to thank Oliver Elphick, Julian Gilbey, Daniel Martin and Jaldhar H. Vyas for providing much useful data on the various religious calendars. I have edited the files they provided to fit calendar's requirements, so any errors should be attributed to me.

After cpbs@debian.org, Marco d'Itri <md@linux.it> maintained it for almost two years, before Tollef Fog Heen <tfheen@debian.org> took over. The package is now maintained by Graham Wilson <bob@decoy.wox.org>.

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2.19 build-essential 12.4ubuntu1

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bzip2/libbzip2 version 1.0.7 of 27 June 2019

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2.23 cloud-initramfs-tools 0.40ubuntu1
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8x13B.bdf 8x13Bc.bdf 8x13.bdf 8x13c.bdf 8x13-IL2.bdf 8x13O.bdf
9x15B.bdf 9x15Bc.bdf 9x15.bdf 9x15c.bdf 9x15B-IL2.bdf 9x15-IL2.bdf
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100dpi-courR10-IL2.bdf 75dpi-courB12.bdf 75dpi-courB12c.bdf
75dpi-courB12-IL2.bdf 75dpi-courB14.bdf 75dpi-courB14c.bdf
75dpi-courB14-IL2.bdf 75dpi-courR12.bdf 75dpi-courR12c.bdf
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100dpi-lutBS08-IL2.bdf 100dpi-lutBS12-IL2.bdf
100dpi-lutBS14-IL2.bdf 100dpi-lutBS14.bdf 100dpi-lutBS19-IL2.bdf
100dpi-lutRS10.bdf 100dpi-lutRS10-IL2.bdf 100dpi-lutRS08.bdf
100dpi-lutRS08-IL2.bdf 100dpi-lutRS14-IL2.bdf 100dpi-lutRS14.bdf
100dpi-lutRS19-IL2.bdf 75dpi-lutBS12.bdf 75dpi-lutBS12c.bdf
75dpi-lutBS12-IL2.bdf 75dpi-lutBS14.bdf 75dpi-lutBS14c.bdf
75dpi-lutBS14-IL2.bdf 75dpi-lutRS12.bdf 75dpi-lutRS12c.bdf
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legacy12c.bdf, legacy12d.bdf, legacy14a.bdf, legacy14b.bdf,
legacy14c.bdf, legacy14d.bdf, legacy14e.bdf, legacy14f.bdf,
legacy14g.bdf, legacy14h.bdf, legacy14i.bdf, legacy14j.bdf,
legacy14k.bdf, legacy14l.bdf, legacy16a.bdf, legacy16b.bdf,
legacy16c.bdf, legacy16d.bdf, legacy16e.bdf, legacy16f.bdf,
legacy16g.bdf, legacy16h.bdf, legacy16i.bdf, legacy16j.bdf,
legacy16k.bdf, legacy16l.bdf, legacy16m.bdf, legacy19a.bdf,
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src/shred.c
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doc/coreutils.texi (The GNU Coreutils Manual)
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2.26 coreutils 8.31

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============

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

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## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.
## MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

## Heimdal

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## GNU GSS

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## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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2.29 cyrus-sasl 2.1.27~101-g0780600+dfsg-3ubuntu2

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- Format: [http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/](http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/)
- Upstream-Name: Cyrus SASL

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2.42 expat 2.2.5-3ubuntu0.1

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2.46 findutils 4.6.0+git+20170828-2
2.46.1 Available under license:
It was downloaded from ftp://ftp.gnu.org/gnu/findutils

Debian maintainer history: The original package was put together by
Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley
<kevind@rahul.net> took over. 2003-07 Andreas Metzler
<ametzler@debian.org> followed.

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* GNU find was written by Eric Decker <cire@cisco.com>,
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  Jay Plett <jay@silence.princeton.nj.us>,
  and Tim Wood <axolotl!tim@toad.com>.
  The idea for -print0 and xargs -0 came from
  Dan Bernstein <brnstnd@kramden.acf.nyu.edu>.
  Improvements have been made by James Youngman <jay@gnu.org>.

* GNU xargs
  was originally written by Mike Rendell, with enhancements by David
  MacKenzie. Modifications by James Youngman Dmitry V. Levin

* GNU locate and its associated utilities were originally
  written by James Woods, with enhancements by David MacKenzie, James Youngman
  and Bas van Gompel.

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Current upstream maintainer is James Youngman <jay@gnu.org>.

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## 2.47 findutils 4.6.0+git+20160126-2

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Debian maintainer history: The original package was put together by Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley <kevind@rahul.net> took over. 2003-07 Andreas Metzler <ametzler@debian.org> followed.

Upstream Authors:
* GNU find was written by Eric Decker <cire@cisco.com>, with enhancements by David MacKenzie <djm@gnu.org>, Jay Plett <jay@silence.princeton.nj.us>, and Tim Wood <axolotl!tim@toad.com>. The idea for -print0 and xargs -0 came from Dan Bernstein <brnstnd@kramden.acf.nyu.edu>. Improvements have been made by James Youngman <jay@gnu.org>.

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2.48 fontconfig 2.12.6-0ubuntu2
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This package was debianized by Colin Walters <walters@debian.org> on Sun, 13 Oct 2002 15:01:50 -0400

It was downloaded from http://www.fontconfig.org/

Upstream Author: Keith Packard

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2.49 freetype 2.8.1-2ubuntu2

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DRuntime: Runtime Library for the D Programming Language

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Version 3.1, 31 March 2009

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Developed by:

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/* 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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/* 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 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"u", (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
", (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
", (int)(ROUNDED))

#define 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
", (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\u", (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%ld", (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

/* Automatically generated by Pod::Man 4.11 (Pod::Simple 3.35) */

/* 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\'-1v\'-1p\'-2+\h'-1p'+s0/v'.1v\'-1p'
 .ie n \{| 
 .   .ds -- \(*W-
 .   .ds PI pi
 .   .if \(\(H=4u)\&(1m=24u) .ds -- \("\h'-12u\"(/"\h'-12u\"\" \" diablo 10 pitch
 .   .if \(\(H=4u)\&(1m=20u) .ds -- \("\h'-12u\"(/"\h'-8u\"\" \" diablo 12 pitch
 .   .ds L\" "'
 .   .ds R\" "'
 .   .ds C\ "'
 .   .ds C\ "'
 'br\}
 .el\{|
Escape single quotes in literal strings from groff's Unicode transform.

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'.

Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

fudge factors for nroff and troff

if n

if !nF==2
  nr % 0
  nr F 2

if t

if n

IX Title "GPL 7"
.TH GPL 7 "2019-02-22" "gcc-8.3.0" "GNU"
" For nroff, turn off justification.  Always turn off hyphenation; it makes
way too many mistakes in technical documents.
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 nh
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IX Header "DESCRIPTION"
.SS "\s-1GNU\s0 General Public License"
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@end enumerate

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@example

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@example

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

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#
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# 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 + '
')
        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',
            'rul.texti',
            'gpl_v3.texti',
            'rul-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',
'ltcommit.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]\([-0-9.,\s]RIENDS\s+\)*[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.
            '((C)opyright'  
            '||C)opyrights\+(C)'  
            '||C)opyrights+%'  
            '||C)opyrights+&copy;'  
            '||C)opyrights+@copyright\s+{ }')
|copyright = ul|
|@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.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():].lstrip()
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])
o.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
' % 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...
' %
                      'Options:
' % sys.argv[0])
    format = '%-15s %s
' for (what, help) in self.option_help:
sys.stdout.write (format % (what, help))
sys.stdout.write ('\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')
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self.add_external_author('The Go Authors.')
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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',
    'libc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libssp',
    'libstdc++-v3',
    'libvtv',
    'lto-plugin',
]

GCCCmdLine().main()
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This package was first created by Erick Branderhorst <branderh@debian.org>.
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and is currently maintained by Santiago Vila <sanvila@debian.org>.

This release has been built using the sources from:


The changes were fairly minimal, and consisted solely of adding various debian/* files to the distribution.

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Description: Don't warn for _BSD_SOURCE || _SVID_SOURCE, drop post-vivid
Author: Adam Conrad <adconrad@ubuntu.com>

--- glibc-2.21.orig/include/features.h
+++ glibc-2.21/include/features.h
@@ -145,7 +145,10 @@
 transitioned to use the new macro. */
 #if (defined _BSD_SOURCE || defined _SVID_SOURCE) \
 && !defined _DEFAULT_SOURCE
+/* Don't #warn about _BSD_SOURCE || _SVID_SOURCE, as it breaks -Werror
+   and we don't have time to check/fix everything before vivid release
+ warning "_BSD_SOURCE and _SVID_SOURCE are deprecated, use _DEFAULT_SOURCE"
+*/
+# undef _DEFAULT_SOURCE
+# define _DEFAULT_SOURCE1
#endif

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2.57 gnutls 3.5.18-1ubuntu1

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It was downloaded from ftp://ftp.gnutls.org/gcrypt/gnutls/

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Comment: This code is not used on Debian/*, since we have a working
vasprintf() in glibc.

lib/extras/hex.*

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2.58 gnutls 3.4.10-4ubuntu1.4

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This package was debianized by Ivo Timmermans <ivo@debian.org> on Fri, 3 Aug 2001 10:00:42 +0200.
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It was downloaded from ftp://ftp.gnutls.org/gcrypt/gnutls/

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DTLS-SRTP support.

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2.65 iconv 2.23-0ubuntu10

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Author: Adam Conrad <adconrad@ubuntu.com>

--- glibc-2.21.orig/include/features.h
+++ glibc-2.21/include/features.h
@@ -145,7 +145,10 @@
 transitioned to use the new macro. */
 #if (defined _BSD_SOURCE || defined _SVID_SOURCE) \
   && !defined _DEFAULT_SOURCE
+/* Don't #warn about _BSD_SOURCE || _SVID_SOURCE, as it breaks -Werror
+   and we don't have time to check/fix everything before vivid release
 # warning "_BSD_SOURCE and _SVID_SOURCE are deprecated, use _DEFAULT_SOURCE"
+*/
 # undef _DEFAULT_SOURCE
 # define _DEFAULT_SOURCE1
#endif
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The Debian tree is maintained with "git" at:
https://anonscm.debian.org/git/kernel/initramfs-tools.git
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2.70 initramfs-tools 0.122ubuntu8.11

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2.71 installation-report 2.62ubuntu1

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2.72 iproute2 4.3.0-1ubuntu3.16.04.3

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2.73 iproute2 4.15.0-2ubuntu1

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2.77 kerberos 1.13.2+dfsg-5ubuntu2

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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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This package was debianized by Thomas Schoepf <schoepf@debian.org> on Wed, 8 Sep 1999 13:28:20 +0200.

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man/getpeereid.3bsd
man/pidfile.3bsd
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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Mersenne Twister
----------------

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

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Sockets
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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
---------------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S,
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

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2.94 libidn 1.33-2.1ubuntu1.2

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

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

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

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

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

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(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.

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

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

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

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2.116 make-dfsg 4.1-9.1ubuntu1

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2.120 ncurses 6.0+20160213-1ubuntu1

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2.121 ncurses 6.1-1ubuntu1.18.04

2.121.1 Available under license:

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This package was put together by Vaidhyanathan G Mayilrangam <vaidhy@debian.org> and Joel Klecker <espy@debian.org>, using sources obtained from ftp://ftp.gnu.org/gnu/ncurses/ncurses-5.0.tar.gz.

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2.122 netcat-openbsd 1.187-1ubuntu0.1

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Stefan Walter *stef [at] memberwebs.com*
PKCS8 fix, PKCS #11 backend move to p11-kit.

Yoshisato YANAGISAWA *yanagisawa [at] csg.is.titech.ac.jp*
Camellia support.

Emile Van Bergen *emile [at] e-advies.nl*
TLS/IA fixes.

Joe Orton *jorton [at] redhat.com*
Certificate name import/export, build fixes, test vectors.

Daniel Kahn Gillmor *dkg-debian.org [at] fifthhorseman.net*
OpenPGP discussion and improvements.

David Marn Carreo *davefx [at] gmail.com*
Added gnutls_x509_crq_get_key_id.

Daiki Ueno *ueno [at] unixuser.org*
Added TLS Session Ticket (RFC 5077) support,
finished client-side TLS 1.2 support.

Brad Hards *bradh [at] frogmouth.net*
Add X.509 Issuer Alternative Name functions.

Boyan Kasarov *bkasarov [at] gmail.com*
C++ fixes.

Steve Dispensa *dispensa [at] phonefactor.com*
Initial TLS safe renegotiation patch.

Jonathan Bastien-Filiatrault *joe [at] x2a.org*
Fix TLS-version checks.
Redesign and implementation of the buffering layer.
Initial DTLS implementation.

Ruslan Ijbulatov (LRN) *lrn1986 [at] gmail.com*
Win32 patches.

Andy Polyakov *appro [at] openssl.org*
AES-NI and Padlock assembler code (at lib/accelerated/intel/asm/)

David Woodhouse *dwmw2 [at] infradead.org*
DTLS 0.9 implementation.

Olga Smolenchuk *olyasib12 [at] gmail.com*
DTLS/TLS heartbeat implementation.

Ilya Tumaykin *itumaykin [at] gmail.com*
Elliptic curve support improvements (wmNAF implementation and others).

Martin Storjo *martin [at] martin.st*
DTLS-SRTP support.

Alessandro Ghedini *alessandro [at] ghedini.me*
TLS Fallback SCSV support (RFC7507).

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lib/extras/randomart.*

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lib/system/inet_pton.c

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Comment: This code is not used on Debian/*, since we have a working
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common/test-lexer.c common/test-message.c
common/test-path.c common/test-url.c
p11-kit/iter.c p11-kit/iter.h p11-kit/test-iter.c
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## 2.140 pcre 8.41
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Written by: Philip Hazel
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Email domain: cam.ac.uk

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2.142 pcre 8.39-9

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This is Debian GNU/Linux's prepackaged version of the PCRE regular
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This package was put together by me, Mark Baker <mbaker@iee.org> from the
original sources obtained from ftp.csx.cam.ac.uk:/pub/software/programming/pcre.

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Source: http://www.perl.com/CPAN/src/5.0/
Comment:
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bzip2/libbzzip2 version 1.0.5 of 10 December 2007

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cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_2.pod
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cpan/Locale-Maketext-Simple/t/po_with_i_default/en.po
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dist/I18N-Collate/*
dist/Safe/*
ext/Fcntl/*
ext/FileCache/*
ext/GDBM_File/*
ext/IPC-Open2/*
ext/IPC-Open3/*
ext/NDBM_File/*
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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2.146 procps 3.3.10-4ubuntu2.4
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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

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    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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1855
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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
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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
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-----------------

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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
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- Arguments more compliant with Python standard

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---------------------------
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---------------

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===============

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============================

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

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

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Mersenne Twister

The `_random' module includes code based on a download from
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following are the verbatim comments from the original code:

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

Before using, initialize the state by using init_genrand(seed)
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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
e-mail: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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

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

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

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The `_random` module includes code based on a download from 'http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html'. The following are the verbatim comments from the original code:

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

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Sockets
The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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Modified by Jack Jansen, CWI, July 1995:
  - Use binascii module to do the actual line-by-line conversion
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  - Arguments more compliant with python standard

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

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<th>Year</th>
<th>Owner</th>
<th>GPL compatible?</th>
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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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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

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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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.
The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-----------------------------

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:
   - Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
   - Arguments more compliant with Python standard

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--------------------------

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test_epoll
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----

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2.153 python3.6 3.6.8-1~18.04.1

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

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

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<tr>
<th>Release</th>
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0.9.0 thru 1.2  1991-1995  CWI   yes
1.3 thru 1.5.2  1.2  1995-1999  CNRI  yes
1.6             1.5.2  2000  CNRI   no
2.0             1.6  2000  BeOpen.com  no
1.6.1           1.6  2001  CNRI  yes (2)
2.1             2.0+1.6.1  2001  PSF  no
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2.1.1           2.1+2.0.1  2001  PSF  yes
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=======================================================

Mersenne Twister
--------------

The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

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

Before using, initialize the state by using init_genrand(seed)
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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and
`getnameinfo', which are coded in separate source files from the WIDE

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---------------------------

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============================

Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (see
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. Digital Creations is a sponsoring member of the PSF.

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2.157 readline 4.4.18-2ubuntu1

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This package was put together by Matthias Klose <doko@debian.org>, from the following sources:
bash:ftp.gnu.org/pub/gnu/bash/bash-4.3.tar.gz

Bash homepage: http://tiswww.case.edu/php/chet/bash/bashtop.html

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2.159 sed 4.4-2

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2.160 sed 4.2.2-7

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#include "sed.h"

#include <ctype.h>
#include <string.h>
#include <stdio.h>
#include <stdlib.h>

#define gettext_noop
#define N_(String) gettext_noop(String)
define NO_REGEX (errors)
define BAD_MODIF (NO_REGEX + sizeof(N_("no previous regular expression")))
define END_ERRORS (BAD_MODIF + sizeof(N_("cannot specify modifiers on empty regexp")))

static const char errors[] =
"no previous regular expression\0"
"cannot specify modifiers on empty regexp";

static void
compile_regex_1 (new_regex, needed_sub)
struct regex *new_regex;
int needed_sub;
{
    #ifdef REG_PERL
    int errcode;
    errcode = regncomp(&new_regex->pattern, new_regex->re, new_regex->sz,
        (needed_sub ? 0 : REG_NOSUB)
            | new_regex->flags
            | extended_regexp_flags);
    
    if (errcode)
    {
        char errorbuf[200];
        regerror(errcode, NULL, errorbuf, 200);
        bad_prog(gettext(errorbuf));
    }
    #else
    const char *error;
    int syntax = ((extended_regexp_flags & REG_EXTENDED)
        ? RE_SYNTAX_POSIX_EXTENDED
            : RE_SYNTAX_POSIX_BASIC);
    
    syntax &= ~RE_DOT_NOT_NULL;
    syntax |= RE_NO_POSIX_BACKTRACKING;
    
    switch (posixicity)
    {
    case POSIXLY_EXTENDED:
        syntax &= ~RE_UNMATCHED_RIGHT_PAREN_ORD;
        break;
    case POSIXLY_CORRECT:
        syntax |= RE_UNMATCHED_RIGHT_PAREN_ORD;
        break;
    case POSIXLY_BASIC:
        syntax |= RE_UNMATCHED_RIGHT_PAREN_ORD | RE_LIMITED_OPS | RE_NO_GNU_OPS;
        break;
    }
    
    #ifdef RE_ICASE
    syntax |= (new_regex->flags & REG_ICASE) ? RE_ICASE : 0;
    #endif
    #ifdef RE_NO_SUB
    syntax |= needed_sub ? 0 : RE_NO_SUB;
    #endif

    new_regex->pattern.fastmap = malloc (1 << (sizeof (char) * 8));
/* If REG_NEWLINE is set, newlines are treated differently. */
if (new_regex->flags & REG_NEWLINE)
{
    /* REG_NEWLINE implies neither . nor [^...] match newline. */
    syntax &= ~RE_DOT_NEWLINE;
    syntax |= RE_HAT_LISTS_NOT_NEWLINE;
}

re_set_syntax (syntax);
error = re_compile_pattern (new_regex->re, new_regex->sz,
    &new_regex->pattern);
new_regex->pattern.newline_anchor = (new_regex->flags & REG_NEWLINE) != 0;

new_regex->pattern.translate = NULL;
#ifndef RE_ICASE
    if (new_regex->flags & REG_ICASE)
    {
        static char translate[1 << (sizeof(char) * 8)];
        int i;
        for (i = 0; i < sizeof(translate) / sizeof(char); i++)
            translate[i] = tolower (i);
        new_regex->pattern.translate = translate;
    }
#endif
if (error)
    bad_prog(error);
#endif
/* Just to be sure, I mark this as not POSIXLY_CORRECT behavior */
if (needed_sub
    && new_regex->pattern.re_nsub < needed_sub - 1
    && posixicity == POSIXLY_EXTENDED)
{
    char buf[200];
    sprintf(buf, "invalid reference \%d on `s' command's RHS");
    needed_sub - 1);
    bad_prog(buf);
}
}

struct regex *
compile_regex(b, flags, needed_sub)
struct buffer *b;
int flags;
int needed_sub;
{
struct regex *new_regex;
size_t re_len;

/* // matches the last RE */
if (size_buffer(b) == 0)
{
    if (flags > 0)
        bad_prog(_(BAD_MODIF));
    return NULL;
}

re_len = size_buffer(b);
new_regex = ck_malloc(sizeof (struct regex) + re_len - 1);
new_regex->flags = flags;
memcpy (new_regex->re, get_buffer(b), re_len);

#ifdef REG_PERL
    new_regex->sz = re_len;
#else
    /* GNU regex does not process \t & co. */
    new_regex->sz = normalize_text(new_regex->re, re_len, TEXT_REGEX);
#endif

compile_regex_1 (new_regex, needed_sub);
return new_regex;

#ifdef REG_PERL
static void
    copy_regs (regs, pmatch, nregs)
        struct re_registers *regs;
        regmatch_t *pmatch;
        int nregs;
    {
        int i;
        int need_regs = nregs + 1;
        /* We need one extra element beyond `num_regs' for the `-1' marker GNU code uses. */

        /* Have the register data arrays been allocated? */
        if (!regs->start)
        {
            /* No. So allocate them with malloc. */
            regs->start = MALLOC (need_regs, regoff_t);
            regs->end = MALLOC (need_regs, regoff_t);
            regs->num_regs = need_regs;
        }
        else if (need_regs > regs->num_regs)
        {
            /* Yes. We also need more elements than were already

        #endif
    }
#endif
}
allocated, so reallocate them. */
regs->start = REALLOC (regs->start, need_regs, regoff_t);
regs->end = REALLOC (regs->end, need_regs, regoff_t);
regs->num_regs = need_regs;
}

/* Copy the regs. */
for (i = 0; i < nregs; ++i)
{
    regs->start[i] = pmatch[i].rm_so;
    regs->end[i] = pmatch[i].rm_eo;
}
for (; i < regs->num_regs; ++i)
    regs->start[i] = regs->end[i] = -1;
#endif

int match_regex(regex, buf, buflen, buf_start_offset, regarray, regsize)
struct regex *regex;
char *buf;
size_t buflen;
size_t buf_start_offset;
struct re_registers *regarray;
int regsize;
{
    int ret;
    static struct regex *regex_last;
#ifdef REG_PERL
    regmatch_t rm[10], *regmatch = rm;
    if (regsize > 10)
        regmatch = (regmatch_t *) alloca (sizeof (regmatch_t) * regsize);
#endif
    /* printf ("Matching from %d/%d\n", buf_start_offset, buflen); */

    /* Keep track of the last regexp matched. */
if (!regex)
    {
        regex = regex_last;
        if (!regex_last)
            bad_prog(_(NO_REGEX));
    }
else
    regex_last = regex;
#ifdef REG_PERL
    regmatch[0].rm_so = (int)buf_start_offset;
#endif
regmatch[0].rm_eo = (int)buflen;
ret = regexec (&regex->pattern, buf, regsize, regmatch, REG_STARTEND);

if (regsize)
    copy_regs (regarray, regmatch, regsize);

return (ret == 0);
#else
if (regex->pattern.no_sub && regsize)
    compile_regex_1 (regex, regsize);

regex->pattern.regs_allocated = REGS_REALLOCATE;

ret = re_search (&regex->pattern, buf, buflen, buf_start_offset,
    buflen - buf_start_offset,
    regsize ? regarray : NULL);

return (ret > -1);
#endif
}

#ifdef DEBUG_LEAKS
void
release_regex(regex)
struct regex *regex;
{
    regfree(&regex->pattern);
    free(regex);
}
#endif /*DEBUG_LEAKS*/

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2.161 shadow 4.5-1ubuntu1

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Also, thanks for Dennis L. Mumaugh for the initial shadow password information and to Tony Walton (olapw@olgb1.oliv.co.uk) for the System V Release 4 changes. Effort in porting to SunOS has been contributed by Dr. Michael Newberry (miken@cs.adfa.oz.au) and Micheal J. Miller, Jr. (mke@kaberdrain.com). Effort in porting to AT&T UNIX System V Release 4 has been provided by Andrew Herbert (andrew@werple.pub.uu.oz.au). Special thanks to Marek Michalkiewicz (marekm@i17linuxb.ists.pwr.wroc.pl) for taking over the Linux port of this software.

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2.162 spdylay 1.30.0-1ubuntu1

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2.163 sqlite3 3.22.0-1

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2.164 sqlite3 3.11.0-1ubuntu1
2.164.1 Available under license:

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Upstream-Name: sqlite3
Source: http://www.sqlite.org/cgi/src/dir?ci=trunk

Files: *
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2.165 sudo 1.8.21p2-3ubuntu1
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This is the Debian GNU/Linux prepackaged version of sudo. sudo is
used to provide limited super user privileges to specific users.

Bdale Garbee <bdale@gag.com> maintains this package using sources from

http://www.sudo.ws/

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Additionally, fnmatch.c, fnmatch.h, getcwd.c, glob.c, glob.h and snprintf.c
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2.166 systemd 229-4ubuntu21.2

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Upstream-Contact: systemd-devel@lists.freedesktop.org
Source: http://www.freedesktop.org/wiki/Software/systemd/

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src/udev/udev-builtin-net_setup_link.c
src/udev/udev-builtin-hwdb.c
src/udev/udev-builtin-btrfs.c
src/udev/udev-builtin-keyboard.c
src/udev/net/link-config.h
src/udev/net/link-config.c
src/udev/net/ethtool-util.c
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2.167 systemd 237-3ubuntu10.3

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From: Michael Biebl <biebl@debian.org>
Date: Sun, 17 Dec 2017 00:31:20 +0100
Subject: Revert "udev-rules: Permission changes for /dev/dri/renderD**"

This would introduce a new system group "render". As the name is rather generic, this needs further discussion first, so revert this change for now.

This reverts commit 4e15a7343cb389e97f3eb4f49699161862d88b8b2.

---
meson.build                    | 2 --
meson_options.txt              | 2 --
rules/50-udev-default.rules.in | 5 +----
src/login/70-uaccess.rules     | 2 +-4 files changed, 2 insertions(+), 9 deletions(-)
diff --git a/meson.build b/meson.build
index c734561..b9e59ec 100644
--- a/meson.build
+++ b/meson.build
@@ -753,7 +753,6 @@ if get_option('wheel-group')
    "render group access mode": @0@'.format(get_option('group-render-mode')),
    "certificate root directory": @0@'.format(get_option('certificate-root')),
    "support URL": @0@'.format(support_url),
'nobody user name:
@0@'.format(nobody_user),
diff --git a/meson_options.txt b/meson_options.txt
index 39822d6..b1d035f 100644
--- a/meson_options.txt
+++ b/meson_options.txt
@@ -177,8 +177,6 @@ option('nobody-group', type : 'string',
value : 'nobody')
option('dev-kvm-mode', type : 'string', value : '0666',
description : '/dev/kvm access mode')
-option('group-render-mode', type : 'string', value : '0666',
description : 'Access mode for devices owned by render group (e.g. /dev/dri/renderD*, /dev/kfd).')
option('default-kill-user-processes', type : 'boolean',
description : 'the default value for KillUserProcesses= setting')
option('gshadow', type : 'boolean',
diff --git a/rules/50-udev-default.rules.in b/rules/50-udev-default.rules.in
index bd4c215..549a4f0 100644
--- a/rules/50-udev-default.rules.in
+++ b/rules/50-udev-default.rules.in
@@ -31,14 +31,11 @@ SUBSYSTEM=="input", KERNEL=="js[0-9]*", MODE="0664"
SUBSYSTEM=="video4linux", GROUP="video"
SUBSYSTEM=="graphics", GROUP="video"
-SUBSYSTEM=="drm", KERNEL!="renderD*", GROUP="video"
+SUBSYSTEM=="drm", GROUP="video"
SUBSYSTEM=="dvb", GROUP="video"
SUBSYSTEM=="media", GROUP="video"
SUBSYSTEM=="cec", GROUP="video"
-SUBSYSTEM=="drm", KERNEL=="renderD*", GROUP="render", MODE="@GROUP_RENDER_MODE@"
-SUBSYSTEM=="kfd", GROUP="render", MODE="@GROUP_RENDER_MODE@"
SUBSYSTEM=="sound", GROUP="audio", \
OPTIONS+="static_node=snd/seq", OPTIONS+="static_node=snd/timer"
diff --git a/src/login/70-uaccess.rules b/src/login/70-uaccess.rules
index f2c838f..f3a2e66 100644
--- a/src/login/70-uaccess.rules
+++ b/src/login/70-uaccess.rules
@@ -45,7 +45,7 @@ SUBSYSTEM=="firewire", ATTR{units}=="*0x00a02d:0x010001*", TAG+="uaccess"
SUBSYSTEM=="firewire", ATTR{units}=="*0x00a02d:0x014001*", TAG+="uaccess"
# DRI video devices
-SUBSYSTEM=="drm", KERNEL=="card*", TAG+="uaccess"
+SUBSYSTEM=="drm", KERNEL=="card*|renderD*", TAG+="uaccess"
# smart-card readers
ENV{ID_SMARTCARD_READER}=="?*", TAG+="uaccess"

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2073


This package contains the mechanism for executing the right scripts in the right order at bootup/shutdown time, and when changing runlevels. It works through managing symlinks in /etc/rc?.d

This package is built from the `sysvinit` source package. Please consult the copyright file of the sysvinit package for the location of the upstream sources of the sysvinit package. Debian-specific files for sysvinit, such as these initscripts, are maintained by the members of the pkg-sysvinit project at alioth.debian.org.

http://alioth.debian.org/projects/pkg-sysvinit

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Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com> from pre-distribution sources. Ian Murdock <imurdock@debian.org> integrated it into the base system maintained it until the end of 1995. Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support. In version 2.85 the package was split into three (sysvinit, sysv-rc, and initscripts) in order to make room for alternative rc mechanisms.
The upstream source is available at:

Primary-Site:  ftp.cistron.nl /pub/people/miquels/software
92K sysvinit-2.86.tar.gz
Alternate-Site: sunsite.unc.edu /pub/Linux/system/daemons/init
92K sysvinit-2.86.tar.gz

Send patches to sysvinit-devel@nongnu.org.

The sysvinit package in Debian is maintained as an alioth project.
The project page is http://alioth.debian.org/projects/pkg-sysvinit/.

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The of the start-stop-daemon:

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
* public domain.
This package contains the scripts that are executed at start and
shutdown of Debian systems.

This package is built from the `sysvinit' source package. Please
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2.169 tar 1.31

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/* Handle large integers for calculating big tape lengths and the like. In practice, double precision does for now. On the vast
majority of machines, it counts up to $2^{52}$ bytes without any loss of information, and counts up to $2^{62}$ bytes if data are always blocked in 1 kB boundaries. We'll need arbitrary precision arithmetic anyway once we get into the $2^{64}$ range, so there's no point doing anything fancy before then. */

#define TARLONG_FORMAT "%.0f"
typedef double tarlong;

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2.170 tar 1.29b-2ubuntu0.1

2.170.1 Available under license:

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More recently, I’m directly using the upstream source repository at

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c) Accompany the work with a written offer, valid for at
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

2.177 vim 8.0.1453-1ubuntu1
2.177.1 Available under license:
  *uganda.txt* For Vim version 8.0. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*
SUMMARY
*iccf* *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:
http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

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

The Open Publication License applies to the Vim documentation, see [manual-copyright].

=== begin of license ===

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II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:
1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
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   b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.
   c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a
context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

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

- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.

- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.

- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

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

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

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

=== end of license ===

Note:
- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

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

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

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

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

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

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

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

*donate*
Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

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

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

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

If you have any further questions, send me e-mail: <Bram@vim.org>.
The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS)
is no longer possible, unfortunately. We are looking for
another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US
checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They
take care of the Canadian sponsors for the children in
Kibaale. KCF forwards 100% of the money to the project in
Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated
because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you
will receive a tax receipt which can be submitted with your
tax return.

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

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

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

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

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:


The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

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

vim:tw=78:ts=8:ft=help:norl:
$ !
$ !=====================================================================!
$ !VimTutor.com version 29-Aug-2002
$ !Author: Tom Wyant <Thomas.R.Wyant-III@usa.dupont.com>
$ !This DCL command procedure executes the vimtutor command
$ !(surprise, surprise!) which gives you a brief tutorial on the
$ !VIM editor. Languages other than the default are supported in
$ !the usual way, as are at least some of the command qualifiers,
$ !though you'll need to play some fairly serious games with DCL
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Version 2, June 1991

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2.181 xorg 7.7+19ubuntu7.1

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Source Package: xorg

Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel
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2.182 zlib 1.2.3

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2.183 zlib 1.2.8

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2.184 zlib 1.2.11

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2.185 zlib 1.2.11.dfsg-0ubuntu2

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There is a homepage at http://www.gzip.org/zlib/

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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2.186 zlib 1.2.8.dfsg-2ubuntu4.1

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2.187 zstd 1.3.3+dfsg-2ubuntu1

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