Open Source Used In SD-WAN Cloud OnRamp for Colocation Solution Guide Release 20.1

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## Contents

<table>
<thead>
<tr>
<th>1.1 acl 2.2.51 :14.el7.centos</th>
<th>2.2.51 Available under license</th>
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<td>1.2 aic94xx-firmware 30 :6.el7.centos</td>
<td>30 Available under license</td>
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<td>1.3 alsa-lib 1.1.6 :2.el7.centos</td>
<td>1.1.6 Available under license</td>
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<td>1.4 Apache Jakarta Commons Logging 1.1</td>
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<td>1.5 Apache WebServices Common Utilities 1.0.2</td>
<td>1.0.2 Available under license</td>
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<td>1.6 Apache XML-RPC Client Library 3.1.2</td>
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   1.15.1 Available under license
1.16 atk 2.28.1 :1.el7.centos
   1.16.1 Available under license
1.17 atomic 1.22.1 :26.gitb507039.el7.centos
   1.17.1 Available under license
1.18 attr 2.4.46 :13.el7.centos
   1.18.1 Available under license
1.19 audit 2.8.4 :4.el7.centos
   1.19.1 Available under license
1.20 augeas 1.4.0 :6.el7.centos
   1.20.1 Available under license
1.21 augeas 1.4.0 :6.el7.centos.1
   1.21.1 Available under license
1.22 authconfig 6.2.8 :30.el7.centos
   1.22.1 Available under license
1.23 autogen 5.18 :5.el7.centos
   1.23.1 Available under license
1.24 avahi 0.6.31 :19.el7.centos
   1.24.1 Available under license
1.25 avalon-framework 4.3 :10.el7.centos
   1.25.1 Available under license
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   1.26.1 Available under license
1.27 basesystem 10.0 :7.el7.centos
   1.27.1 Available under license
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   1.28.1 Available under license
1.29 bcel 5.2 :18.el7.centos
   1.29.1 Available under license
1.30 bind 9.9.4 :73.el7.centos
   1.30.1 Available under license
1.31 bind 9.9.4 :72.el7.centos
   1.31.1 Available under license
1.32 binutils 2.27 :34.base.el7.centos
   1.32.1 Available under license
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1.34 boost 1.53.0 :27.el7.centos
   1.34.1 Available under license

1.35 bridge-utils 1.5 :9.el7.centos
   1.35.1 Available under license

1.36 btrfs-progs 4.9.1 :1.el7.centos
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   1.45.1 Available under license

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   1.46.1 Available under license

1.47 chrony 3.2 :2.el7.centos
   1.47.1 Available under license

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   1.48.1 Available under license

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   1.49.1 Available under license

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1.51 Commons Logging 1.1.1
   1.51.1 Available under license

1.52 container-selinux 2.74 :1.el7.centos
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1.55 copy-jdk-configs 3.3 :10.el7.centos
   1.55.1 Available under license
1.56 coreutils 8.22 :23.el7.centos
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   1.58.1 Available under license
1.59 createrepo 0.9.9 :28.el7.centos
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   1.60.1 Available under license
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   1.63.1 Available under license
1.64 curl 7.29.0 :51.el7.centos
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1.65 cyrus-sasl 2.1.26 :23.el7.centos
   1.65.1 Available under license
1.66 dbus 1.10.24 :12.el7.centos
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1.67 dbus 1.10.24 :13.el7.centos
   1.67.1 Available under license
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1.69 dbus-python 1.1.1 :9.el7.centos
   1.69.1 Available under license
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1.71 deltarpm 3.6 :3.el7.centos
   1.71.1 Available under license
1.72 device-mapper-multipath 0.4.9 :123.el7.centos
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   1.83.1 Available under license
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   1.85.1 Available under license
1.86 dracut 033 :554.el7.centos
   1.86.1 Available under license
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1.88 driverctl 0.101 :1.el7.centos
   1.88.1 Available under license
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   1.89.1 Available under license
1.90 ebtables 2.0.10 :16.el7.centos
   1.90.1 Available under license
1.91 ecj 4.5.2 :3.el7.centos
1.92 efibootmgr 17 :2.el7.centos
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  1.135.1 Available under license
1.136 gpgme 1.3.2 :5.el7.centos
  1.136.1 Available under license
1.137 graphite2 1.3.10 :1.el7.centos
  1.137.1 Available under license
1.138 grep 2.20 :3.el7.centos
  1.138.1 Available under license
1.139 groff 1.22.2 :8.el7.centos
  1.139.1 Available under license
1.140 grub2 2.02 :0.76.el7.centos
  1.140.1 Available under license
1.141 grubby 8.28 :25.el7.centos
  1.141.1 Available under license
1.142 gsm 1.0.13 :11.el7.centos
  1.142.1 Available under license
1.143 gssproxy 0.7.0 :21.el7.centos
  1.143.1 Available under license
1.144 gtk2 2.24.31 :1.el7.centos
  1.144.1 Available under license
1.145 gtk3 3.22.30 :3.el7.centos
  1.145.1 Available under license
1.146 gzip 1.5 :10.el7.centos
  1.146.1 Available under license
1.147 hardlink 1.0 :19.el7.centos
1.148 harfbuzz 1.7.5 :2.el7.centos
  1.148.1 Available under license
1.149 hicolor-icon-theme 0.12 :7.el7.centos
  1.149.1 Available under license
1.150 hivex 1.3.10 :6.9.el7.centos
  1.150.1 Available under license
1.151 hostname 3.13 :3.el7.centos
  1.151.1 Available under license
1.152 hwdata 0.252 :9.1.el7.centos
  1.152.1 Available under license
1.153 hwdata 0.252 :8.8.el7.centos
  1.153.1 Available under license
1.154 icu 50.1.2 :17.el7.centos
   1.154.1 Available under license

1.155 ifplugd 0.28 :1.2.el7.centos
   1.155.1 Available under license

1.156 initscripts 9.49.46 :1.el7.centos
   1.156.1 Available under license

1.157 ipmitool 1.8.18 :7.el7.centos
   1.157.1 Available under license

1.158 iproute 4.11.0 :14.el7.centos.2
   1.158.1 Available under license

1.159 iproute 4.11.0 :14.el7.centos
   1.159.1 Available under license

1.160 iproute 4.11.0 :14.el7.centos
   1.160.1 Available under license

1.161 ipset 6.38 :3.el7.centos
   1.161.1 Available under license

1.162 iptables 1.4.21 :28.el7.centos
   1.162.1 Available under license

1.163 iputils 20160308 :10.el7.centos
   1.163.1 Available under license

1.164 ipxe 20170123 :1.git4e85b27.el7.centos.1
   1.164.1 Available under license

1.165 irqbalance 1.0.7 :10.el7.centos.1
   1.165.1 Available under license

1.166 iscsi-initiator-utils 6.2.0.874 :10.el7.centos
   1.166.1 Available under license

1.167 jansson 2.10 :1.el7.centos
   1.167.1 Available under license

1.168 jasper 1.900.1 :33.el7.centos
   1.168.1 Available under license

1.169 java-1.8.0-openjdk 1.8.0.212.b04 :0.el7.centos
   1.169.1 Available under license

1.170 java-1.8.0-openjdk 1.8.0.191.b12 :1.el7.centos
   1.170.1 Available under license

1.171 java-1.8.0-openjdk_AGPLv3 1.8.0.191.b12 :1.el7.centos
   1.171.1 Available under license

1.172 java-1.8.0-openjdk_GPLV3 1.8.0.191.b12 :1.el7.centos
   1.172.1 Available under license

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1.173.1 Available under license
1.174 javapackages-tools 3.4.1 :11.el7.centos
   1.174.1 Available under license
1.175 jbigkit 2.0 :11.el7.centos
   1.175.1 Available under license
1.176 jemalloc 3.6.0 :1.el7.centos
   1.176.1 Available under license
1.177 json-c 0.11 :4.el7.centos
   1.177.1 Available under license
1.178 kbd 1.15.5 :15.el7.centos
   1.178.1 Available under license
1.179 kernel 3.10.0 :957.1.3.el7
   1.179.1 Available under license
1.180 kernel 3.10.0 :957.21.3.el7
   1.180.1 Available under license
1.181 kexec-tools 2.0.15 :21.el7.centos.3
   1.181.1 Available under license
1.182 kexec-tools 2.0.15 :21.el7.centos
   1.182.1 Available under license
1.183 keyutils 1.5.8 :3.el7.centos
   1.183.1 Available under license
1.184 kmod 20 :23.el7.centos
   1.184.1 Available under license
1.185 krb5 1.15.1 :34.el7.centos
   1.185.1 Available under license
1.186 krb5 1.15.1 :37.el7.centos
   1.186.1 Available under license
1.187 ldns 1.6.16 :10.el7.centos
   1.187.1 Available under license
1.188 less 458 :9.el7.centos
   1.188.1 Available under license
1.189 libaio 0.3.109 :13.el7.centos
   1.189.1 Available under license
1.190 libarchive 3.1.2 :10.el7.centos
   1.190.1 Available under license
1.191 libassuan 2.1.0 :3.el7.centos
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More changes made by Gordon Morehouse <nphyre@evernex.com> April 2001

This package is now maintained by Martin Mitchell <martin@debian.org>.

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Upstream Author(s):
  Riccardo Facchetti <riccardo@master.oasi.gpa.it>
  Andre M. Hedrick <hedrick@astro.dyer.vanderbilt.edu>
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

That's great!

Go ahead and circulate it; in fact, we should probably grab it and
stick it in our ftp archive, and put a reference to it in the book.
(Too late to actually discuss the thing, at least for this edition).

--------
From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
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Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

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

Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

--
``The lyf so short, the craft so long to lerne.`` - Chaucer
> Hi. I snagged some of your bash functions from your home directory on
> the FSF machines (naughty, I know), and I was wondering if you'd let
> me distribute them with bash-2.0. Thanks.

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

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

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.
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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

1.31 bind 9.9.4 :72.el7.centos
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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

   Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
   derived from the ones in the Monotone project, revision
   3a0982da308228d796d35f98d787c5cfff2bb5b6.

   Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
   These files were derived from the file_handle, systembuf, pipe and pistream
   classes and tests found in the Boost.Process library.

   Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
   admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
   except the first one, were first implemented in the Buildtool project.
   They were later adapted to be part of Boost.Process and, during that
   process, the shell script was created.

   Author: Julio Merino <jmmv84@gmail.com>

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

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

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

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

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

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

@item
As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
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Library is used in it and that the Library and its use are covered by
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copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

@enumerate
@item Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable `work that
uses the Library`, as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
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@item
Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the
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copying library functions into the executable, and (2) will operate
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@item
Verify that the user has already received a copy of these
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@end enumerate

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@enumerate a
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Give prominent notice with the combined library of the fact
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where to find the accompanying uncombined form of the same work.
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Version 3, 29 June 2007

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

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++++++++++++++++

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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1.33 biosdevname 0.7.3 :1.el7.centos
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1.34 boost 1.53.0 :27.el7.centos

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 *
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 *
 */

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//

struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f)
    
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href=" << (p.root / p.file).string() << ">
        " << p.file.string() << "</a>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
"<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
"<html>
"<head>
"<title>Boost Licence Dependency Information</title>
"<head/>
"<body>
"<H1>Boost Licence Dependency Information</H1>
"<H2>Contents</h2>
"<pre><a href="#input">Input Information</a>
"<a href="#summary">Licence Summary</a>
"<a href="#details">Licence Details</a>
"<a href="#files">Files with no recognised license</a>
"<a href="#authors">Files with no recognised copyright holder</a>
"Moving to the Boost Software License...
"<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
"<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
"<a href="#not-to-bsl">Files that can <b>NOT</b> be moved to the Boost Software License</a>
"<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
"<a href="#copyright">Copyright Holder Information</a>
"<a href="#depend">File Dependency Information</a>
"</pre>
// input Information:
//
os << "<a name="input"></a><h2>Input Information</h2>
if(m_scan_mode)
os << "<p>The following files were scanned for boost dependencies:<BR>
else
os << "<p>The following Boost modules were checked:<BR>

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
os << *si << "<BR>
++si;
}
os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></p>

// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex([[:blank:]]*\#define[[:blank:]+BOOST_VERSION[[:blank:]+([\d]+));
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
int version = boost::lexical_cast<int>(what.str(1));
os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100 << "</p>"
}

// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
// start with the summary:
//
os << "<a name="summary"></a><h2>Licence Summary</h2>
while(i != j)
{
// title:
os <<
  "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
// license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
// Copyright holders:
os << "<P>This license is used by " << i->second.authors.size()
  " authors and " << i->second.files.size()
  " files <a href="#" << make_link_target(licenses.first[i->first].license_name) << "/">(see details)</a>";
os << "</P>";
++i;
}

// and now the details:
//i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
;
while(i != j)
{
  // title:
os <<
    "<H3><A name="" << make_link_target(licenses.first[i->first].license_name)
    ""></A>" << licenses.first[i->first].license_name << "</H3>\n";
// license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
if(!m_bsl_summary_mode || (license_index >= 3))
{
  // Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
  holders: </P>\n";
  std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
  os << *x << "<BR>\n";
  ++x;
}
os << "</P>";
// Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files: </P>\n";
  std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{ os << split_path(m_boost_path, *m) << "\n";
  ++m;
}

os << "</P></BLOCKQUOTE>\n";
}
else
{
  os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
  os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
}
++license_index;
++i;
}
//
// Output list of files not found to be under license control:
//
if(!m_bsl_summary_mode)
{

// Output list of files not found to be under license control:
//
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "\n";
  ++i2;
}

// Output list of files with no found copyright holder:
//
if(!m_bsl_summary_mode)
{

// Output list of files that have been moved over to the Boost
// Software License, along with enough information for human
// verification.
//
os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software License</h2>"
<< "<p>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:</p>
if (!m_converted_to_bsl.empty())
{
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
    int file_num = 1;
    while (i != ie)
    {
        os << "<P>
            [" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
        << "</tt><br>
        <table border="1">
            <tr>
                <td><pre>
                  " << i->second.first << "</pre></td>
                <td><pre>
                  " << i->second.second << "</pre></td>
            </tr>
        </table>
        ++i;
        ++file_num;
    }
}
//
// Output list of files that could be moved over to the Boost Software License
//
os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>"
<< "<p>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:</p>
<BLOCKQUOTE><p>
    i2 = m_can_migrate_to_bsl.begin();
    j2 = m_can_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "
    ++i2;
    
    os << "</p></BLOCKQUOTE>";
//
// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>"
<< "<p>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:</p>
<i2 = m_cannot_migrate_to_bsl.begin();
    j2 = m_cannot_migrate_to_bsl.end();
    while(i2 != j2)
    {

os << split_path(m_boost_path, *i2) << "\n"
++i2;
}

os << "</p></BLOCKQUOTE>
;//
// Output list of authors that we need permission for to move to the BSL
//
// os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>\n"
"<p>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.</p>

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "\n"));

os << "</p></BLOCKQUOTE>
;//
// output a table of copyright information:
//
// os << "<h2><a name="copyright"></a>Copyright Holder Information</h2><table border="1">
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td></tr>\n"
    ++ad;
}

os << "</table>\n";
}

//
// output file dependency information:
//
// os << "<h2><a name="depend"></a>File Dependency Information</h2><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
                     ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
    fi = bad_paths.begin();
    efi = bad_paths.end();
    os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " - > ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
            {
                os << " <I>(Circular dependency!)</I>";
                break; // circular dependency!!!
            }
            seen_deps.insert(dep->second);
            last_dep = dep;
            dep = m_dependencies.find(dep->second);
            if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                break;
        }
    os << "\n";
    ++fi;
}
Maybe this should pass?
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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

HISTORY -

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

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

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.
The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(age@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
//
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//
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#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

typedef char one;
struct two {one _[2];};

template< bool C_> 
struct bool_
{
    static const bool value = C_; 
};

typedef bool_<true>        true_;
typedef bool_<false>       false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type 
{
    char padding[8]; 
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

}}
}
template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};

template<class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; static true_t dispatch(U); static false_t dispatch(...); static const T &trigger(); public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
 , typename T1
 , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename C
 , typename T1
 , typename T2
>
struct if_
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};
template<
    bool C
 , typename F1
 , typename F2
>
struct eval_if_c
 : if_c<C,F1,F2>::type
{
};

template<
    typename C
 , typename T1
 , typename T2
>
struct eval_if
 : if_<C,T1,T2>::type
{
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC_)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif
#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) &&
!defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{
    static const bool value = false;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(*)>
{
    static const bool value = true;
};

```
template<
type R>
struct is_unary_or_binary_function_impl<R (*)(...)>  
  { static const bool value = true; };  

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template<
type R>
struct is_unary_or_binary_function_impl<R (__stdcall*)()>  
  { static const bool value = true; };  

#endif

#ifndef _MANAGED

template<
type R>
struct is_unary_or_binary_function_impl<R (__fastcall*)()>  
  { static const bool value = true; };  

#endif

template<
type R>
struct is_unary_or_binary_function_impl<R (__cdecl*)()>  
  { static const bool value = true; };  

template<
type R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(...)>  
  { static const bool value = true; };  

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template<
type R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>  
  { static const bool value = true; };  

#endif

// else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template<
type R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>  
  { static const bool value = true; };  

#endif

#ifndef _MANAGED

template<
type R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>  
  { static const bool value = true; };  

#endif
template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>
{
    static const bool value = true;
};
#endif

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>
{
    static const bool value = true;
};

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>
{
    static const bool value = true;
};
#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{
    static const bool value = true;
};

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{
    static const bool value = true;
};
#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{
    static const bool value = true;
};
#ifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{
    static const bool value = true;
};
#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{
    static const bool value = true;
};
#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{
{ static const bool value = true; }
#endif

template<typename T>
struct is_unary_or_binary_function_impl<T&>
{ static const bool value = false; }

template<typename T>
struct is_unary_or_binary_function
{ static const bool value = is_unary_or_binary_function_impl<T>::value; }

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative

template<typename T> struct alignment_of;

template<typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template< unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template<typename T>
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
          , sizeof(T)
          >::value;
};

template<typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };

    template<typename V>

static yes_type is_same_tester(V*, V*);
static no_type is_same_tester(...);

static T *t;
static U *u;

static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template<typename T>
struct add_const
{  typedef const T type;  };

template<typename T>
struct remove_const
{  typedef T type;  };

template<typename T>
struct remove_const<const T>
{  typedef T type;  };

template<typename T>
struct remove_cv
{  typedef T type;  };

template<typename T>
struct remove_cv<const T>
{  typedef T type;  };

template<typename T>
struct remove_cv<const volatile T>
{  typedef T type;  };

template<typename T>
struct remove_cv<volatile T>
{  typedef T type;  };

template<class T>
struct remove_reference
{  typedef T type;  };

template<class T>
struct remove_reference<T&>
{  typedef T type;  };
template<class Class>
class is_empty_class
{
    template <typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    };

    struct empty_helper_t2
    { int i[256]; };

    public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

//////////////////////////////////////////////////////////////////////////////
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#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#  pragma once
#endif

#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

template <class T, T val>
struct integral_constant {
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_< : integral_constant<bool, C_> {
    static const bool value = C_; 
    operator bool() const { return bool_::value; } 
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type {
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {

typedef T type;
;

template <class T>
struct enable_if_c<false, T> {}
;

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {}
;

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {}
;

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {}
;

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };
};

    template<
        bool C
        , typename T1
        , typename T2
    >
    struct if_c
    {
        typedef T1 type;
    };

    template<
        typename T1
        , typename T2
    >
    struct if_c<false,T1,T2>
    {
        typedef T2 type;
    };

    template<
        typename T1
    >
    struct if_c<false,T1>
struct if_<
   typedef typename if_c<0 != T1::value, T2, T3>::type type;
>

template <class Pair>
struct select1st
   : public std::unary_function<Pair, typename Pair::first_type>
{
   template<class OtherPair>
   const typename Pair::first_type& operator()(const OtherPair& x) const
   {  return x.first;  }

   const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
   {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
   : public std::unary_function<T,T>
{
   typedef T type;
   const T& operator()(const T& x) const
   { return x; }
};

template<std::size_t S>
struct ls_zeros
{
   static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
   static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
   static const std::size_t value = 0;
};
template<typename T> struct unvoid { typedef T type; };
template<> struct unvoid<void> { struct type {}; };
template<> struct unvoid<const void> { struct type {}; };

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

#endif  //ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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//
//////////////////////////////////////////////////////////////////////////////
#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP
#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif
#include <cstddef>
namespace boost {
namespace interprocess {
namespace ipcdetail {

template<class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T, val> type;
};

template<bool C_>
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;  
};

}  //namespace ipcdetail {
}  //namespace interprocess {
}  //namespace boost {

#include <cstddef>
namespace boost {
namespace interprocess {
namespace ipcdetail {

//include <cstdlib>

template<class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T, val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;  
};

}  //namespace ipcdetail {
}  //namespace interprocess {
}  //namespace boost {

}  //namespace interprocess {
}  //namespace boost {
}  //namespace container {
}  //namespace container_detail {
}  //namespace boost {

}  //namespace interprocess {
}  //namespace boost {
}  //namespace container {
}  //namespace container_detail {
}  //namespace boost {

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

}  //namespace boost {

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c
{
    typedef T type;
};

template <class T>
struct enable_if_c>false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
 , typename T1
 , typename T2
>
struct if_c
{
    typedef T1 type;
};
template<
    typename T1,
    typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1,
    typename T2,
    typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    {  return x;  }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};
template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

}  //namespace ipcdetail {
}  //namespace interprocess {
}  //namespace boost {

#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (djg -at- cray.com) (See Boost list message of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)
Eric Ford (un5o6n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)
Eric Friedman (ebf@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando Cacciola (fernando_cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
Gennadiy Rozenzahl (rorgeff -at- mail.com) (Email to Andreas Huber, see change log)
Gottfried Ganssaug (Gottfried.Ganssaug -at- HAUF.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)
Gottfried Ganaue (Gottfried.Ganssaug -at- HAUF.DE) (Alternative spelling of Gottfried Ganssaug)
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)
Hartmut Kaiser (hartmut.kaiser -at- gmail.com)
Herve Bronnimmann (hbr -at- poly.edu)
Herv Brnnimann (hbr -at- poly.edu)
Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)
Howard Hinnant (hinnant -at- twcny.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)
Hubert Holin (hubert_holin -at- users.sourceforge.net)
Indiana University ()
Itay Maman (imaman -at- users.sourceforge.net)
Jaakko Jrvi (jajarvi -at- osl.iu.edu)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)
Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)
Jens Maurer (Jens.Maurer@gmx.net)
Jeremy G Siek (jsiek@osl.iu.edu)
Jeremy Siek (jsiek@osl.iu.edu)
Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)
John Bandela (jbandela-at-ufl.edu)
John Maddock (john - at - johnmaddock.co.uk)
John R Bandela (jbandela-at-ufl.edu)
Jonathan Turkanis (turkanis -at- coderage dot com)
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)
Kevin Henney (kevin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)
Kresimir Frel (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)
Lars Gullik Bjønnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)
Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)
Mac Murrett (mmurrett -at- mac.com)
Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)
Michael Glassford (glassfordm - at - hotmail.com)
Michael Stevens (Michael.Stevens - at - epost.de)
Multi Media Ltd. (pdimov@mmltd.net)
Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)
Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)
Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)
Pavol Droba (droba -at- topmail.sk)
--- end ---
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<link rel="up" href="../index.html" title="Chapter 1. Boost.TypeTraits">
<link rel="prev" href="intrinsics.html" title="Support for Compiler Intrinsics">
<link rel="next" href="examples.html" title="Examples">
</head>
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<td align="center"><a href="http://www.boost.org/users/people.html">People</a></td>
<td align="center"><a href="http://www.boost.org/users/faq.html">FAQ</a></td>
<td align="center"><a href="../../../more/index.htm">More</a></td>
</tr></table>
MPL Interoperability

All the value based traits in this library conform to MPL's requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that

```
<code class="computeroutput">true_type</code>
```

inherits from

```
<code class="computeroutput">boost</code><span class="identifier">::</span><span class="class">mpl</span><span class="special">::</span><span class="identifier">true_</span>
```

```
<code class="computeroutput">false_type</code>
```

inherits from

```
<code class="computeroutput">boost</code><span class="identifier">::</span><span class="class">mpl</span><span class="special">::</span><span class="identifier">false_</span>
```

```
<code class="computeroutput">integral_constant</code><span class="special">::</span><span class="identifier">T</span><span class="special">::</span><span class="identifier">v</span>
```

(in provided <code class="computeroutput">boost</code><span class="identifier">::</span><span class="class">mpl</span><span class="special">::</span><span class="identifier">integral_c</span><span class="special">::</span><span class="identifier">T</span><span class="special">::</span><span class="identifier">v</span>)

(Provided <code class="computeroutput">boost</code><span class="special">::</span><span class="class">mpl</span><span class="special">::</span><span class="identifier">integral_c</span><span class="special">::</span><span class="identifier">T</span><span class="special">::</span><span class="identifier">v</span> is not <code class="computeroutput">bool</code>)
All the value based traits in this library conform to MPL's requirements for an [Integral Constant type](http://www.boost.org/doc/html/mpl/integral_constant.html): that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from [True Integral Constant](http://www.boost.org/doc/html/mpl/true.html), `__false_type` inherits from [False Integral Constant](http://www.boost.org/doc/html/mpl/false.html), and `__integral_constant<T, v>` inherits from [Integral C](http://www.boost.org/doc/html/mpl/integral_c.html) (provided `T` is not `bool`).
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--- boost/mpl/print.hpp
+++ boost/mpl/print.hpp
@@ -45,22 +45,21 @@
  : mpl::identity<T>
 #if defined(__MWERKS__)
  , aux::print_base
-#endif
+#endif
+
+if defined(__MWERKS__)
  #ifdef(BOOST_MSVC)
   enum { n = sizeof(T) + -1 };
+  #elif defined(__MWERKS__)
+    enum { n = aux::dependent_unsigned<T>::value > -1 };
+  #elif defined(BOOST_GCC)
+    enum { n1 };
+    enum { n2 };
+    enum { n = n1 != n2 };
+  #else
+  #endif
+  #if defined(__EDG_VERSION__)
+    enum { n = aux::dependent_unsigned<T>::value > -1 };
+  #endif

"open source used in SD-WAN Cloud OnRamp for Colocation Solution Guide Release 20.1"
+    enum { n = sizeof(T) > -1 }; 
+    #endif

#if defined(BOOST_MSVC)

1.35 bridge-utils 1.5 :9.el7.centos

1.35.1 Available under license:

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1.36 btrfs-progs 4.9.1 :1.el7.centos

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1.39 cairo 1.15.12 :3.el7.centos
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Version 1.1

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One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks: but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

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```
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The hypothetical commands `show w' and `show c' should show the appropriate
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might be different; for a GUI interface, you would use an "about box".

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

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read

1.58 cracklib 2.9.0 :11.el7.centos
1.58.1 Available under license :

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

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

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

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

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

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
library to dictact to application writes what license they should be using=20
thus LGPL-2.1 enters to fill this void.

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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

-- Nathan

Nathan Neulinger
EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

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

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

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....

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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > > Seems like the ideal thing here would be for you and the other distro
> > > > maintainers to get together with Alec in a conversation and come to a
> > > > decision as to what licensing scheme y'all want. I haven't really done
> > > > much other than cleaning up the packaging and patches and a small
> > > > bit of
> > > > additional code, so whatever licensing y'all come up with is fine
> > > > by me.
> > >
> > > I am sympathetic. Guys, what do you reckon?
> > >
> > > What I am hearing so far is that LGPL makes sense, since it can be
> > > linked with any code, not just GPL....
> >
> > My apologies for not chiming in in anything resembling a reasonable
> > timeframe.
> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> 
> > In any case, I thank you both for working on sorting this out.

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

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

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

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

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

-mike

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

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.
This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

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

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
   for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
   for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmitp (Exim 4.50)
   id l1cOcX-0004Qt-6L
   for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd8071010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
   <1b1b3fd8071010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

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free software--to make sure the software is free for all its users.

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specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

^L

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those
libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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^L

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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

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

That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

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Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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CrackLib was originally licensed with a variant of the Artistic
license. In the interests of wider acceptance and more modern
licensing, it was switched with the original author's blessing to GPL
v2.

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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

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

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

Attachments: Message as HTML

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

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

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger  
> Sent: Monday, October 01, 2007 8:15 PM  
> To: cracklib-devel@li...  
> Subject: [Cracklib-devel] cracklib license  
> >=20  
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing  
> libraries under  
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
> -mike

Re: [Cracklib-devel] cracklib license  
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML  
On Monday 01 October 2007, Neulinger, Nathan wrote:  
> I understand that, and you're welcome to bring it up with Alec directly  
> and see if he wants to relicense his code as LGPL... but at this point,  
> it was enough to just get it consistent and documented as to what it was  
> released under. This wasn't actually a license change, just a  
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20  
GPL-2 ... it was a modified artistic license ... i didn't notice the license=20  
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=20  
eir=20  
aplications are also GPL-2 which imo is just wrong. it isn't the place of =20  
library to dictact to application writes what license they should be using.=20  
thus LGPL-2.1 enters to fill this void.

=2Dmike

Re: [Cracklib-devel] cracklib license  
From: Neulinger, Nathan <rneul@um...> - 2007-10-02 01:46  
Seems like the ideal thing here would be for you and the other distro  
maintainers to get together with Alec in a conversation and come to a  
decision as to what licensing scheme y'all want. I haven't really done  
much other than cleaning up the packaging and patches and a small bit of  
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan  
=20

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> > directly
> > and see if he wants to relicense his code as LGPL... but at this
> > point,
> > it was enough to just get it consistent and documented as to what
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> > released under. This wasn't actually a license change, just a
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> > the original license (before moving to sourceforge -- aka, 2.7) was
> > not
> > GPL-2 ... it was a modified artistic license ... i didnt notice the
> > license
> > change until it was mentioned in the latest notes.
> > unlike the old license, GPL-2 prevents people from using cracklib
> > unless their
> > applications are also GPL-2 which imo is just wrong. it isnt the
> > place of a
> > library to dictact to application writes what license they should
> > be using.
> > thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.
I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone’s best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

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

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

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
>>
> > I am sympathetic. Guys, what do you reckon?
>>
> > What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> > >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....
> >
> > My apologies for not chiming in in anything resembling a reasonable
> > timeframe.
> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> > In any case, I thank you both for working on sorting this out.

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

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

yes. go for it. thanks++

-a

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

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

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

-mike

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

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

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

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

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-(

-a

1.59 createrepo 0.9.9 :28.el7.centos
1.59.1 Available under license :

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<OL START="11">

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<pre>
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</pre>

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</PRE>

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

<P>The hypothetical commands <SAMP>`show w'</SAMP> and <SAMP>`show c'</SAMP> should show
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<pre>
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interest in the program `Gnomovision'
(which makes passes at compilers) written
by James Hacker.

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

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Version 2, June 1991

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<P>
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</OL>

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759
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1.64.1 Available under license :

  License Mixing with apps, libcurl and Third Party Libraries
  =----------------------------------------------------------------------------------

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

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

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement
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addressed when the Modified BSD license was created, which does not have the
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libcurl http://curl.haxx.se/docs/copyright.html

- Uses an MIT (or Modified BSD)-style license that is as liberal as
  possible. Some of the source files that deal with KRB4 have Original
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  with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL http://www.openssl.org/source/license.html

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  instead.

GnuTLS http://www.gnutls.org/

- (May be used for SSL/TLS support) Uses the LGPL[3] license. If this is
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axTLS http://axtls.sourceforge.net/

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c-ares http://daniel.haxx.se/projects/c-ares/license.html
(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 http://www.gzip.org/zlib/zlib_license.html

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

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos http://web.mit.edu/kerberos/www/dist/

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Heimdal http://www.pdc.kth.se/heimdal/

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fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn http://josefsson.org/libidn/

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OpenLDAP http://www.openldap.org/software/release/license.html

(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 http://www.libssh2.org/

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

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1.65 cyrus-sasl 2.1.26 :23.el7.centos
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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
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CMU libasasl
* Tim Martin
* Rob Earhart
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1.66 dbus 1.10.24 :12.el7.centos

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1.72 device-mapper-multipath 0.4.9 :123.el7.centos

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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0x6e, 0x73, 0x65, 0x20, 0x28, 0x4d, 0x49, 0x54, 0x29, 0x0a, 0x0a, 0x43,
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0x69, 0x73, 0x68, 0x65, 0x64, 0x20, 0x74, 0x6f, 0x20, 0x64, 0x6f, 0x20,
0x73, 0x6f, 0x2c, 0x20, 0x73, 0x75, 0x62, 0x6a, 0x65, 0x63, 0x74, 0x20,
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0x77, 0x69, 0x6e, 0x67, 0x20, 0x63, 0x6f, 0x6e, 0x64, 0x69, 0x74, 0x69,
0x6f, 0x6e, 0x73, 0x3a, 0x0a, 0x0a, 0x54, 0x68, 0x65, 0x20, 0x61, 0x62,

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Gocheck - A rich testing framework for Go

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Theodore Ts'o
23-June-2007

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

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This package was put together by Yann Dirson <dirson@debian.org>,
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Gadi Oxman, August 1995

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#
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image
real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB-pic_FLAG = -fpic

image:$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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*/

Index: tdbsa/tdb.c

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

- trivial database library - private includes
-  
- Copyright (C) Andrew Tridgell 2005
+ Copyright (C) Andrew Tridgell 1999-2005
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1.90 ebtables 2.0.10 :16.el7.centos

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

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

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

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

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

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

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

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

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

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

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

If distribution of object code is made by offering access to copy
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src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
# EOF
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2006-Jan-27

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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
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directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

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

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That's all there is to it!
1.113 gcc 4.8.5 :36.el7.centos

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Version 2.1, February 1999

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

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<signature of Ty Coon>, 1 April 1989
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```
#!/usr/bin/python
#
# Copyright (C) 2013 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --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.pl --this-year libjava
#
# would run the script on just libjava/.
#
# 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',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

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

open('a', 0)
ltoptions.m4',
ltsugar.m4',
ltversion.m4',
lto--obsolete.m4',
'missing',
mkdep',
mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symmlink-tree',
'ylwrap',

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

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

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

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

        # Skip configure files produced by autoconf
if filename == 'configure':
    if os.path.exists (base + '.ac'):
        return True
    if os.path.exists (base + '.in'):
        return True
    return False

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

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

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

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

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

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

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

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

        # Matches a full copyright notice:
        self.copyright_re = re.compile (  
            # 1: 'Copyright (C)', etc.
            '([Cc]\opyright')
            '\([Cc]\opyright\+\*\)'
            '\([Cc]\opyright\+\%\)'  
            '\([Cc]\opyright\+\&copy\)'  
            '\([Cc]\opyright\+\@copyright\)'  
            '\[@set\s+\+\copyright\]'
# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'\(\text{s}*(\?: + \text{ranges} + \: ?,?\)
\@value\{[^{}]*\}\text{s}\)*

# 3: 'by ', if used
'(by\text{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).
'(\ + \text{name} + '(\?:s' + \text{name} + '+)*)?)'

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

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

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

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

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

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

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

    def __str__ (self):
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)]
            + ' ' + 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() + '
'

    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)
    with open (pathname, 'r') as file:
        prev = None
        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
                else:
                    self.error.report (pathname,
                        'unrecognised copyright: %s'
                        % line.strip())
                    lines.append (line)
                line = next_line

        # 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)
            if self.use_quilt:
                subprocess.call (["quilt", 'add', pathname])
            os.rename (tmp_pathname, pathname)

    def process_tree (self, tree, filter):
        for (dir, subdirs, filenames) in os.walk (tree):
```

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

# Handle the files in this directory.
for filename in filenames:
    if filter.skip_file(dir, filename):
        sys.stdout.write('Skipping %s
% 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('
Directories:
')
        format = '%-25s'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            sys.stdout.write(format % dir)
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',
        ])


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
    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 LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (['
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',
        ])
# Imported from upstream
'classpath',
'libltldl',
])

def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)

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

        self.skip_dirs |= set(['
            # Handled separately.
            'testsuite',
        ])

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

class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)
self.add_dir('.', TopLevelFilter())
# boehm-gc is imported from upstream.
self.add_dir('config', ConfigFilter())
# contrib isn't really part of GCC.
self.add_dir('fixincludes')
self.add_dir('gcc', GCCFilter())
self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir('gnatools')
self.add_dir('include')
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libiberty',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]
GCCCmdLine().main()
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(For example, a function in a library to compute square roots has
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application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)
@end enumerate

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:"
;
    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>\n");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>\n");
                }
            result.append("</dl>\n");
            return result.toString();
        } else {
            return null;
        }
    }
}

/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 */
* within the context of a subclass. Some permission names may have no
* actions associated with them. That is, you either have the permission
* or you don't.
*
* &lt;p&gt;The most important method in this class is &lt;code&gt;implies&lt;/code&gt;. This
* checks whether if one has this permission, then the specified
* permission is also implied. As a conceptual example, consider the
* permissions "Read All Files" and "Read File foo". The permission
* "Read All Files" implies that the caller has permission to read the
* file foo.
* 
* &lt;p&gt;&lt;code&gt;Permission&lt;/code&gt;’s must be immutable - do not change their
* state after creation.
* 
* @author Aaron M. Renn (arenn@urbanophile.com)
* @see Permissions
* @see PermissionCollection
* @since 1.1
* @status updated to 1.4
*/

public abstract class Permission implements Guard, Serializable
{

/**
 * Compatible with JDK 1.1+.
 */

private static final long serialVersionUID = -563657022231596674L;

/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */

private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */

public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the &lt;code&gt;Guard&lt;/code&gt; interface for this class.
 * It calls the &lt;code&gt;checkPermission&lt;/code&gt; method in
 * &lt;code&gt;SecurityManager&lt;/code&gt; with this &lt;code&gt;Permission&lt;/code&gt; as its
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 * 
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>equals</code>, rather
 * than <code>equals</code>, when making access control decisions.
 * 
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 * 
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 * 
 * @return the name
 */
public final String getName()
return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>('(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')');</code>.
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();
    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals('')))
    {
        string = string.append(' ');
    }
    string = string.append(')');

    return string.toString();
}
private String toString() {
    string = string.append(getActions());
    string = string.append(')');
    return string.toString();
}
} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be
* granted. Note that this is not the same as the class java.security.Permission.

* @version 0.0

* @author Aaron M. Renn (arenn@urbanophile.com)

public interface Permission
{
/**
 * This method tests whether or not a specified Permission (passed as an Object) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return true if the specified permission is the same as this one, false otherwise
 */
boolean equals (Object perm);

/**
 * This method returns this Permission as a String.
 *
 * @return A String representing this permission.
 */
String toString();
}

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* m4/ax_func_which_gethostbyname_r.m4

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HISTORY -

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

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

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(age@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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@end ignore
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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 the syntax of labels and symbol definitions/declarations. */

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

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

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

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

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

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */

#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. */

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

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

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

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

#define ASM_OUTPUT_ALIGN(FILE,LOG)

/* 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)\n
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

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

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\  
  sprintf ((BUF), "\t*%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

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</appendix>
GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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1.114 gcc 4.8.5 :36.el7.centos.2

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#!/usr/bin/python
#
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# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
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#
# 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.pl --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.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

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

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

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

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

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

        # Skip auto- and libtool-related files
        'aclocal.m4',
        'compile',
        'config.guess',
        'config.sub',
        'depcomp',
        'install-sh',
        'libtool.m4',
        'ltmain.sh',
        'ltoptions.m4',
        'ltstubs.m4',
        'ltversion.m4',
        'lt--obsolete.m4',
        'missing',
        'mkdep',
        'mkinstalldirs',
        'move-if-change',
        'shlibpath.m4',
        'symlink-tree',
        'ylwrap',

        # Skip FSF mission statement, etc.
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'^\')
    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]*[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 + '|\w-')

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


        # 2: the years. Include the whitespace in the year, so that
        # we can remove any excess.
        '(\s*(?:' + ranges + ',?'
        '@value\{[^{}]*\})\s*)'

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

        # 4: the copyright holder. Don't allow multiple consecutive
        # spaces, so that right-margin gloss doesn't get caught
        # (e.g. gnat_ugn.texi).
        '(' + name + '(?:\s*? + name + ' + ')*?)')
# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
    re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

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

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

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

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

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

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

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

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

    def year_range (self, years):
        year_list = [self.parse_year (year)

for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

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

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

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years
    (min_year, max_year) = self.year_range (years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].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)]
    + ' ' + 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() + '
'

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)
with open (pathname, 'r') as file:
    prev = None
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)
                if self.use_quilt:
                    subprocess.call (['quilt', 'add', pathname])
                os.rename (tmp_pathname, pathname)

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

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % 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...

' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('
Directories:
')
        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 + '
')
            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
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 LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',
            
            # Not really part of the library
            'contrib',
            
            # Imported from upstream
            'classpath',
            'libltdl',
        ])
    
def get_line_filter (self, dir, filename):
        if filename == 'NameDecoder.h':
            return re.compile ('.*NAME_COPYRIGHT')
        if filename == 'ICC_Profile.h':
            return re.compile ('.*icSigCopyrightTag')
        return GenericFilter.get_line_filter (self, dir, filename)

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

    self.skip_dirs |= set(
        # Handled separately.
        'testsuite',
    )

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)
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('gnatools')
        self.add_dir('include')
        self.add_dir('libada')
        self.add_dir('libatomic')
        self.add_dir('libbacktrace')
        self.add_dir('libcpp', LibCppFilter())
self.add_dir ('libdecnumber')  
# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libgfortran')
self.add_dir ('libgomp')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libjava', LibJavaFilter())
self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir ('libmudflap', LibMudflapFilter())
self.add_dir (os.path.join ('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir ('libobjc')
self.add_dir ('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

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

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

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

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

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

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

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
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import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    }
}
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}
public String toString(Tag tag) {
return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
if (tags.length == 0) {
return null;
}
else {
boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
if (tags[i].text().length() > 0) {
haveValidTag = true;
}
}
if (haveValidTag) {
StringBuffer result = new StringBuffer();
result.append("<dl>");
for (int i = 0; i < tags.length; i++) {
if (tags[i].text().length() > 0) {
result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
}
}
result.append("</dl>");
return result.toString();
}
else {
return null;
}
}
}
}
/* Permission.java -- The superclass for all permission objects
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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * 
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 */
public abstract class Permission implements Guard, Serializable {
    /**
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
     */
    private String name;

    /**
     * Create an instance with the specified name.
     *
     * @param name the permission name
     */
    public Permission(String name) {
        this.name = name;
    }

    /**
     * This method implements the <code>Guard</code> interface for this class.
     * It calls the <code>checkPermission</code> method in
     * <code>SecurityManager</code> with this <code>Permission</code> as its
     * argument. This method returns silently if the security check succeeds
     * or throws an exception if it fails.
     *
     * @param obj the <code>Object</code> being guarded - ignored by this class
     * @throws SecurityException if the security check fails
     */
    public void checkGuard(Object obj) { public abstract class Permission implements Guard, Serializable {

    private static final long serialVersionUID = -563657022231596674L;

    private String name;

    public Permission(String name) {
        this.name = name;
    }

    public void checkGuard(Object obj) {
SecurityManager sm = System.getSecurityManager();
if (sm != null)
    sm.checkPermission(this);

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>equals</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
public abstract String getActions();

/**
 * This method returns an empty PermissionCollection object that can store permissions of this type, or null if no such collection is defined. Subclasses must override this to provide an appropriate collection when one is needed to accurately calculate implies.
 *
 * @return a new PermissionCollection
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a String representation of this Permission object. This is in the format:
 * (' + getClass().getName() + ' ' + getName() + ' ' + getActions + ')'.
 *
 * @return this object as a String
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals(''))
    {  
        string = string.append(' ');
        string = string.append(getActions());
    }
    string = string.append(')');
    return string.toString();
}
} // class Permission

/* Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is <em>not</em> the same as the class <code>java.security.Permission</code>.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission {

/**
  * This method tests whether or not a specified <code>Permission</code>
  * (passed as an <code>Object</code>) is the same as this permission.
  *
  * @param perm The permission to check for equality
  *
  * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
  */
  boolean equals (Object perm);

/**
  * This method returns this <code>Permission</code> as a <code>String</code>.
  *
  * @return A <code>String</code> representing this permission.
  */
  String toString();
}

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* m4/ax_func_which_gethostbyname_r.m4

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That's all there is to it!
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

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

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

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

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

Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DR6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

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

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

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

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

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)
@center Version 3, 29 June 2007

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

@c man end
/* Definitions for BSD assembler syntax for Intel 386
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   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 `.': to identify labels that should
   be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

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

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

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */
/* Define the syntax of labels and symbol definitions/declarations. */

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

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

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

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

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

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

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

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

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

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

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

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
/* Define the syntax of labels and symbol definitions/declarations. */
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

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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When you use GCC to compile a program, GCC may combine portions of certain GCC header files and runtime libraries with the compiled program. The purpose of this Exception is to allow compilation of non-GPL (including proprietary) programs to use, in this way, the header files and runtime libraries covered by this Exception.

0. Definitions.

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"Target Code" refers to output from any compiler for a real or virtual
target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. Notwithstanding that, Target Code does not include data in any format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

1. Grant of Additional Permission.

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Version 2.1, February 1999

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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a) Accompany the work with the complete corresponding
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with the Library, with the complete machine-readable "work that
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that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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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
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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
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e) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
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It may happen that this requirement contradicts the license
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   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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

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

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

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

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

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

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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4. You may copy and distribute the Library (or a portion or
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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
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6. As an exception to the Sections above, you may also compile or
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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

5. A program that contains no derivative of any portion of the
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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1.124 gfs2-utils 3.1.10 :9.el7.centos

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End

1.127 glibc 2.17 :260.el7.centos.5

1.127.1 Available under license :

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Version 2, June 1991

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Version 2.1, February 1999

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

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commit ef7344f09c5ce00eb519ed14598b2a8e39c68387
Author: Joseph Myers <joseph@codesourcery.com>
Date:   Sun Dec 22 14:49:48 2013 +0000

Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

As discussed in
<https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html> and
<https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html>, it seems appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes are: update paths in sysdeps/mach/hurd/Implies and sysdeps/unix/sysv/linux/wait3.c; merge the two syscall.list files, with the removal of syscall list that were in sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory by .c files there.

Tested x86_64. The installed shared libraries are identical before and after the patch except for libc.so where the move of wait3.c (included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but the disassembly is unchanged.

* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from sysdeps/unix/bsd/bsd4.4/syscalls.list.
  (fchflags): Likewise.
  (revoke): Likewise.
  (setlogin): Likewise.
  (sigaltstack): Likewise.
  (wait4): Likewise.
  (sigblock): Remove.
  (sigsetmask): Likewise.
  (wait3): Likewise.
  (waitpid): Likewise.
* sysdeps/unix/bsd/bsd4.4/syscalls.list: Remove file.
* sysdeps/unix/sysv/linux/wait3.c: Update directory of included
file.
* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
* sysdeps/unix/bsd/Makefile: ... here.
* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
* sysdeps/unix/bsd/bsd4.4/Version: Move to ...
* sysdeps/unix/bsd/Version: ... here.
* sysdeps/unix/bsd/bsd4.4/Version: Move to ...
* sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h: Move to ...
* sysdeps/unix/bsd/bits/sockaddr.h: ... here.
* sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c: Move to ...
* sysdeps/unix/bsd/cmsg_nxthdr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
* sysdeps/unix/bsd/sigblock.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
* sysdeps/unix/bsd/sigsetmask.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...
* sysdeps/unix/bsd/sigvec.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcdrain.c: Move to ...
* sysdeps/unix/bsd/tcdrain.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcgetattrs: Move to ...
* sysdeps/unix/bsd/tcgetattrs: ... here.
* sysdeps/unix/bsd/bsd4.4/tcsetattrs: Move to ...
* sysdeps/unix/bsd/tcsetattrs: ... here.
* sysdeps/unix/bsd/bsd4.4/wait.c: Move to ...
* sysdeps/unix/bsd/wait.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait3.c: Move to ...
* sysdeps/unix/bsd/wait3.c: ... here.
* sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...
* sysdeps/unix/bsd/waitpid.c: ... here.

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234c1fd1522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@
# Hurd-based GNU systems.
gnu
# The Hurd provides a rough superset of the functionality of 4.4 BSD.
-unix/bsd/bsd4.4
+unix/bsd

diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Makefile
rename to sysdeps/unix/bsd/Makefile
diff --git a/sysdeps/unix/bsd/bsd4.4/Version b/sysdeps/unix/bsd/Version
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Version
rename to sysdeps/unix/bsd/Version
diff --git a/sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h
rename to sysdeps/unix/bsd/bits/sockaddr.h
diff --git a/sysdeps/unix/bsd/bsd4.4/syscalls.list b/sysdeps/unix/bsd/bsd4.4/syscalls.list
deleted file mode 100644
index a4d354685424ac61..0000000000000000
--- a/sysdeps/unix/bsd/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
-# File nameCallerSyscall name# argsStrong nameWeak name
-
-chflags-chflags2chflags
-fchflags-fchflags2fchflags
-revoke-revoke1revoke
-setlogin-setlogin2setlogin
-sigaltstack-sigaltstack2__sigaltstacksigaltstack
-wait4-wait44__wait4wait4
diff --git a/sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c b/sysdeps/unix/bsd/cmsg_nxthdr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c
rename to sysdeps/unix/bsd/cmsg_nxthdr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigblock.c
rename to sysdeps/unix/bsd/sigblock.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigsetmask.c b/sysdeps/unix/bsd/sigsetmask.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigsetmask.c
rename to sysdeps/unix/bsd/sigsetmask.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigvec.c
rename to sysdeps/unix/bsd/sigvec.c
diff --git a/sysdeps/unix/bsd/syscalls.list b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148..9f48a144d475f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ b/sysdeps/unix/bsd/syscalls.list
@@ -1,14 +1,16 @@
 # File nameCallerSyscall name# argsStrong nameWeak name
 +chflags-chflags2chflags
 +fchflags-fchflags2fchflags
 flock-flock2__flockflock
 getdents-getdirententries4__getdirententriesgetdirententries
 getdtsz-getdtablesize0__getdtablesizegetdtablesize
 getpagesize-getpagesize0__getpagesizegetpagesize
 killpg-killpg2killpg
 -sigblock-sigblock1__sigblocksigblock
 +revoke-revoke1revoke
+setlogin-setlogin2setlogin
+sigaltstack-sigaltstack2__sigaltstack
sigpause-sigpause1__sigpausesigpause
-sigsetmask-sigsetmask1__sigsetmask
-sigsetmask
-sigstack-sigstack2-sigstack
-sigvec-sigvec3__sigvecsigvec
-wait3-wait33__wait3wait3
-waitpid-waitpid3__waitpidwaitpid
+wait4-wait4wait4

diff --git a/sysdeps/unix/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/tcdrain.c
to sysdeps/unix/bsd/tcdrain.c
diff --git a/sysdeps/unix/bsd4.4/tcgetattr.c b/sysdeps/unix/bsd/tcgetattr.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/tcgetattr.c
to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd4.4/tcsetattr.c b/sysdeps/unix/bsd/tcsetattr.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/tcsetattr.c
to sysdeps/unix/bsd/tcsetattr.c
diff --git a/sysdeps/unix/bsd4.4/wait.c b/sysdeps/unix/bsd/wait.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/wait.c
to sysdeps/unix/bsd/wait.c
diff --git a/sysdeps/unix/bsd4.4/wait3.c b/sysdeps/unix/bsd/wait3.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/wait3.c
to sysdeps/unix/bsd/wait3.c
diff --git a/sysdeps/unix/bsd4.4/waitpid.c b/sysdeps/unix/bsd/waitpid.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/waitpid.c
to sysdeps/unix/bsd/waitpid.c
diff --git a/sysdeps/unix/sysv/linux/wait3.c b/sysdeps/unix/sysv/linux/wait3.c
index 0b3bdee771782b7b..2ff027f0e1d83eb2 100644
--- a/sysdeps/unix/sysv/linux/wait3.c
+++ b/sysdeps/unix/sysv/linux/wait3.c
@@ -1 +1 @@
-#include <sysdeps/unix/bsd4.4/wait3.c>
+#include <sysdeps/unix/wait3.c>

1.128 glibc 2.17 :260.el7.centos
1.128.1 Available under license:

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Version 2, June 1991

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

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

That's all there is to it!
commit ef7344f09c5ce00eb519ed14598b2a8e39c68387
Author: Joseph Myers <joseph@codesourcery.com>
Date:   Sun Dec 22 14:49:48 2013 +0000

Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.
As discussed in
<https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html> and
<https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html>, it seems
appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes
are: update paths in sysdeps/mach/hurd/Implies and
sysdeps/unix/sysv/linux/wait3.c; merge the two syscall.s list files,
with the removal of syscalls that were in
sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory
by .c files there.

Tested x86_64. The installed shared libraries are identical before
and after the patch except for libc.so where the move of wait3.c
(included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but
the disassembly is unchanged.

* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from
  sysdeps/unix/bsd/bsd4.4/syscalls.list.
  (fchflags): Likewise.
  (revoke): Likewise.
  (setlogin): Likewise.
  (sigaltstack): Likewise.
  (wait4): Likewise.
  (sigblock): Remove.
  (sigsetmask): Likewise.
  (wait3): Likewise.
  (waitpid): Likewise.
* sysdeps/unix/bsd/bsd4.4/syscalls.list: Remove file.
* sysdeps/unix/sysv/linux/wait3.c: Update directory of included
  file.
* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
* sysdeps/unix/bsd/Makefile: ... here.
* sysdeps/unix/bsd/bsd4.4/Versions: Move to ...
* sysdeps/unix/bsd/Versions: ... here.
* sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h: Move to ...
* sysdeps/unix/bsd/bits/sockaddr.h: ... here.
* sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c: Move to ...
* sysdeps/unix/bsd/cmsg_nxthdr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
* sysdeps/unix/bsd/sigblock.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
* sysdeps/unix/bsd/sigsetmask.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...
* sysdeps/unix/bsd/sigvec.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcdrain.c: Move to ...
* sysdeps/unix/bsd/tcdrain.c: ... here.
* sysdeps/unix/bsd/tcdrain.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcgetattr.c: Move to ...
* sysdeps/unix/bsd/tcsetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcsetattr.c: Move to ...
* sysdeps/unix/bsd/tcsetattr.c: ... here.
* sysdeps/unix/bsd/bfd4.4/wait.c: Move to ...
* sysdeps/unix/bsd/wa1t.c: ... here.
* sysdeps/unix/bsd/bfd4.4/wait3.c: Move to ...
* sysdeps/unix/bsd/wa1t3.c: ... here.
* sysdeps/unix/bsd/bfd4.4/waitpid.c: Move to ...
* sysdeps/unix/bsd/wa1tpid.c: ... here.

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234e1fd1522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@

# Hurd-based GNU systems.

-gnu

# The Hurd provides a rough superset of the functionality of 4.4 BSD.

+unix/bsd
+bsd4.4

diff --git a/sysdeps/unix/bsd/bfd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
rename from sysdeps/unix/bsd/bfd4.4/Makefile
rename to sysdeps/unix/bsd/Makefile
diff --git a/sysdeps/unix/bsd/bfd4.4/Versions b/sysdeps/unix/bsd/Versions
similarity index 100%
rename from sysdeps/unix/bsd/bfd4.4/Versions
rename to sysdeps/unix/bsd/Versions
diff --git a/sysdeps/unix/bsd/bfd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
similarity index 100%
rename from sysdeps/unix/bsd/bfd4.4/bits/sockaddr.h
rename to sysdeps/unix/bsd/bits/sockaddr.h
diff --git a/sysdeps/unix/bsd/bfd4.4/syscalls.list b/sysdeps/unix/bsd/bfd4.4/syscalls.list
deleted file mode 100644
index a4d354685424ac61..0000000000000000
--- a/sysdeps/unix/bsd/bfd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@

-# File nameCallerSyscall name# argsStrong nameWeak names
-
-chflags-chflags2chflags
-fchflags-fchflags2fchflags
-revoke-revoke1revoke
-setlogin-setlogin2setlogin
-sigaltstack-sigaltstack2__sigaltstacksigaltstack
-wait4-wait44__wait4wait4
rename to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcsetattr.c b/sysdeps/unix/bsd/tcsetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcsetattr.c
rename to sysdeps/unix/bsd/tcsetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait.c b/sysdeps/unix/bsd/wait.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/wait.c
rename to sysdeps/unix/bsd/wait.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait3.c b/sysdeps/unix/bsd/wait3.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/wait3.c
rename to sysdeps/unix/bsd/wait3.c
diff --git a/sysdeps/unix/bsd/bsd4.4/waitpid.c b/sysdeps/unix/bsd/waitpid.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/waitpid.c
rename to sysdeps/unix/bsd/waitpid.c
diff --git a/sysdeps/unix/sysv/linux/wait3.c b/sysdeps/unix/sysv/linux/wait3.c
index 0b3bdee771782b7b..2ff027f0e1d83eb2 100644
--- a/sysdeps/unix/sysv/linux/wait3.c
+++ b/sysdeps/unix/sysv/linux/wait3.c
@@ -1 +1 @@
-#include <sysdeps/unix/bsd/bsd4.4/wait3.c>
+#include <sysdeps/unix/bsd/wait3.c>

1.129 glusterfs 3.12.2 :18.el7.centos
1.129.1 Available under license:

From 9a95de08eb49f10c0a342099826d5e4c45749a Mon Sep 17 00:00:00 2001
From: Mohit Agrawal <moagrawa@redhat.com>
Date: Thu, 31 May 2018 12:29:35 +0530
Subject: [PATCH 313/325] dht: Inconsistent permission for directories after
brick stop/start

Problem: Inconsistent access permissions on directories after
    bringing back the down sub-volumes, in case of directories dht_setattr
    first wind a call on MDS once call is finished on MDS then wind a call
    on NON-MDS.At the time of revalidating dht just compare the uid/gid with
    stbuf uid/gid and if anyone differs set a flag to heal the same.

Solution: Add a condition to compare permission also in dht_revalidate_cbk
to set a flag to call dht_dir_attr_heal.

> BUG: 1584517
> Change-Id: I3e039607148005015b5d93364536158380d4c5aa
> fixes: bz#1584517
> (cherry picked from commit e57cbae0bce3d8649b869eda5ec20f3c6a6d34f0)
BUG: 1582066
Change-Id: 1985445521aeedc52c0a56c20287e523aa3398b
Signed-off-by: Mohit Agrawal <moagrawa@redhat.com>
Reviewed-on: https://code.engineering.redhat.com/gerrit/143721
Tested-by: RHGS Build Bot <nigelb@redhat.com>
Reviewed-by: Sunil Kumar Hegodu Gopala Acharya <sheggodu@redhat.com>
---
tests/bugs/bug-1584517.t | 70 ++++++++++++++++++++++++++++++++ tests/bugs/bug-1584517.t
xlators/cluster/dht/src/dht-common.c | 81 ++++++++++++++++++++++++++++++----
xlators/cluster/dht/src/dht-common.h |  3 ++
xlators/cluster/dht/src/dht-selfheal.c |  2 +
4 files changed, 147 insertions(+), 9 deletions(-)
create mode 100644 tests/bugs/bug-1584517.t
diff --git a/tests/bugs/bug-1584517.t b/tests/bugs/bug-1584517.t
new file mode 100644
index 0000000..7f48015
--- /dev/null
+++ b/tests/bugs/bug-1584517.t
@@ -0,0 +1,70 @@
+#!/bin/bash
+. $(dirname $0)/../include.rc
+. $(dirname $0)/../volume.rc
+. $(dirname $0)/../dht.rc
+cleanup;
+This test case verifies attributes (uid/gid/perm) for the
+directory are healed after stop/start brick. To verify the same
+test case change attributes of the directory after down a DHT subvolume
+#and one AFR children. After start the volume with force and run lookup
+#operation attributes should be healed on started bricks at the backend.
+
+
+TEST glusterd
+TEST pidof glusterd
+TEST SCLI volume create $V0 replica 3 $H0:$B0/$[V0]{0,1,2,3,4,5}
+TEST SCLI volume start $V0
+TEST useradd dev -M
+TEST groupadd QA
+
+TEST glusterfs --volfile-id=$V0 --volfile-server=$H0 $M0;
+
+TEST mkdir $M0/dironedown
+
+TEST kill_brick $V0 $H0 $B0/$[V0]2
+EXPECT_WITHIN $PROCESS_UP_TIMEOUT "5" online_brick_count
+
+TEST kill_brick $V0 $H0 $B0/${V0}3
+EXPECT_WITHIN $(PROCESS_UP_TIMEOUT) "3" online_brick_count +
+TEST kill_brick $V0 $H0 $B0/${V0}4
+EXPECT_WITHIN $(PROCESS_UP_TIMEOUT) "2" online_brick_count +
+TEST kill_brick $V0 $H0 $B0/${V0}5
+EXPECT_WITHIN $(PROCESS_UP_TIMEOUT) "1" online_brick_count +
+TEST chown dev $M0/dironedown
+TEST chgrp QA $M0/dironedown
+TEST chmod 777 $M0/dironedown +
+#store the permissions for comparison
+permission_onedown=`ls -l $M0 | grep dironedown | awk '{print $1}'`
+
+TEST $CLI volume start $V0 force
+EXPECT_WITHIN $(PROCESS_UP_TIMEOUT) "5" online_brick_count +
+TEST glusterfs --volfile-id=$V0 --volfile-server=$H0 $M0;
+
+#Run lookup two times to hit revalidate code path in dht
+## to heal user attr
+
+TEST Is $M0/dironedown
+
+#check attributes those were created post brick going down
+TEST brick_perm=`ls -l $B0/${V0}3 | grep dironedown | awk '{print $1}'`
+TEST echo $brick_perm
+TEST [ $[brick_perm] = $[permission_onedown] ]
+uid=`ls -l $B0/${V0}3 | grep dironedown | awk '{print $3}'`
+TEST echo $uid
+TEST [ $uid = dev ]
+gid=`ls -l $B0/${V0}3 | grep dironedown | awk '{print $4}'`
+TEST echo $gid
+TEST [ $gid = QA ]
+
+TEST umount $M0
+userdel --force dev
+groupdel QA
+
+cleanup
+exit
+
diff --git a/xlators/cluster/dht/src/dht-common.c b/xlators/cluster/dht/src/dht-common.c
index c6adce4..23049b6 100644
--- a/xlators/cluster/dht/src/dht-common.c
+++ b/xlators/cluster/dht/src/dht-common.c

@@ -1329,6 +1329,8 @@ dht_lookup_dir_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
    char    gfid_local[GF_UUID_BUF_SIZE] = {0};
    char    gfid_node[GF_UUID_BUF_SIZE] = {0};
    int32_t  mds_xattr_val[1]        = {0};
+   call_frame_t *copy                 = NULL;
+   dht_local_t  *copy_local           = NULL;

    GF_VALIDATE_OR_GOTO ("dht", frame, out);
    GF_VALIDATE_OR_GOTO ("dht", this, out);
@@ -1401,6 +1403,23 @@ dht_lookup_dir_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
    dht_aggregate_xattr (local->xattr, xattr);
}
+
+   if (dict_get (xattr, conf->mds_xattr_key)) {
+       local->mds_subvol = prev;
+       local->mds_stbuf.ia_gid = stbuf->ia_gid;
+       local->mds_stbuf.ia_uid = stbuf->ia_uid;
+       local->mds_stbuf.ia_prot = stbuf->ia_prot;
+   }
+
+   if (local->stbuf.ia_type != IA_INVAL) {
+       if (!__is_root_gfid (stbuf->ia_gfid) &&
+           ((local->stbuf.ia_gid != stbuf->ia_gid) ||
+            (local->stbuf.ia_uid != stbuf->ia_uid)) ||
+           (is_permission_different (&local->stbuf.ia_prot,
+                                    &stbuf->ia_prot))) {
+           local->need_attrheal = 1;
+       }
+   }
+
+   if (local->inode == NULL)
+       local->inode = inode_ref (inode);

@@ -1496,6 +1515,43 @@ unlock:
        &local->postparent, 1);
    }
+
+   if (local->need_attrheal) {
+       local->need_attrheal = 0;
+       if (!__is_root_gfid (inode->gfid)) {
+           gf_uuid_copy (local->gfid, local->mds_stbuf.ia_gfid);
+           local->stbuf.ia_gid = local->mds_stbuf.ia_gid;
+           local->stbuf.ia_uid = local->mds_stbuf.ia_uid;
+           local->stbuf.ia_prot = local->mds_stbuf.ia_prot;
+       }
+       copy = create_frame (this, this->ctx->pool);
+       if (copy) {
+           copy_local = dht_local_init (copy, &local->loc,
if (!copy_local) {
    DHT_STACK_DESTROY (copy);
    goto skip_attr_heal;
}

copy_local->stbuf = local->stbuf;
+copy_local->mds_stbuf = local->mds_stbuf;
+copy_local->mds_subvol = local->mds_subvol;
+copy->local = copy_local;
+FRAME_SU_DO (copy, dht_local_t);
+ret = synctask_new (this->ctx->env,
    dht_dir_attr_heal,
    dht_dir_attr_heal_done,
    copy, copy);
+
if (ret) {
    gf_msg (this->name, GF_LOG_ERROR, ENOMEM,
        DHT_MSG_DIR_ATTR_HEAL_FAILED,
        "Synctask creation failed to heal attr "
        "for path %s gfid %s",
        local->loc.path, local->gfid);
    DHT_STACK_DESTROY (copy);
}
+
+skip_attr_heal:
DHT_STRIP_PHASE1_FLAGS (&local->stbuf);
dht_set_fixed_dir_stat (&local->postparent);
/* Delete mds xattr at the time of STACK UNWIND */
@@ -1516,7 +1572,7 @@ out:
return ret;
}

-int static
+int
is_permission_different (ia_prot_t *prot1, ia_prot_t *prot2)
{
    if ((prot1->owner.read != prot2->owner.read) ||
@@ -1677,12 +1733,12 @@ dht_revalidate_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
        (&local->stbuf.ia_prot)) &&
        is_permission_different (&local->stbuf.ia_prot,
-            &stbuf->ia_prot)) {
+            &stbuf->ia_prot)) {
            local->need_selfheal = 1;
        }
    }
if (!dict_get (xattr, conf->mds_xattr_key)) {
    gf_msg_debug (this->name, 0, "internal xattr %s is not present"

@@ -1828,10 +1884,9 @@ out:
local->need_selfheal = 0;
if (!_is_root_gfid (inode->gid)) {
    gf_uuid_copy (local->gfid, local->mds_stbuf.ia_gfid);
-    if (local->mds_stbuf.ia_gid || local->mds_stbuf.ia_uid) {
-        local->stbuf.ia_gid = local->mds_stbuf.ia_gid;
-        local->stbuf.ia_uid = local->mds_stbuf.ia_uid;
-    }
+    local->stbuf.ia_gid = local->mds_stbuf.ia_gid;
+    local->stbuf.ia_uid = local->mds_stbuf.ia_uid;
+    local->stbuf.ia_prot = local->mds_stbuf.ia_prot;
} else {
    gf_uuid_copy (local->gfid, local->stbuf.ia_gfid);
    local->stbuf.ia_gid = local->prebuf.ia_gid;
@@ -1843,8 +1898,10 @@ out:
if (copy) {
    copy_local = dht_local_init (copy, &local->loc,
        NULL, 0);
-    if (!copy_local)
+    if (!copy_local) {
+        DHT_STACK_DESTROY (copy);
    goto cont;
+    }
    copy_local->stbuf = local->stbuf;
    copy_local->mds_stbuf = local->mds_stbuf;
    copy_local->mds_subvol = local->mds_subvol;
@@ -1854,6 +1911,14 @@ out:
        dht_dir_attr_heal,
        dht_dir_attr_heal_done,
        copy, copy);
+    if (ret) {
+        gf_msg (this->name, GF_LOG_ERROR, ENOMEM,
+            DHT_MSG_DIR_ATTR_HEAL_FAILED,
+            "Synctask creation failed to heal attr 
+            "for path %s gfid %s ",
+            local->loc.path, local->gfid);
+        DHT_STACK_DESTROY (copy);
+    }
}
}

cont:
diff --git a/xlators/cluster/dht/src/dht-common.h b/xlators/cluster/dht/src/dht-common.h
index a70342f..b40815c 100644
--- a/xlators/cluster/dht/src/dht-common.h
+++ b/xlators/cluster/dht/src/dht-common.h
@@ -298,6 +298,7 @@ struct dht_local {
     xlator_t                *mds_subvol; /* This is use for dir only */
     char                     need_selfheal;
     char                     need_xattr_heal;
+    char                     need_attrheal;
     int                      file_count;
     int                      dir_count;
     call_frame_t            *main_frame;
@@ -1491,4 +1492,6 @@ int
     dht_selfheal_dir_setattr (call_frame_t *frame, loc_t *loc, struct iatt *stbuf,
         int32_t valid, dht_layout_t *layout);

+int
+is_permission_different (ia_prot_t *prot1, ia_prot_t *prot2);
#endif/* _DHT_H */
diff --git a/xlators/cluster/dht/src/dht-selfheal.c b/xlators/cluster/dht/src/dht-selfheal.c
index e9b1db9..035a709 100644
--- a/xlators/cluster/dht/src/dht-selfheal.c
+++ b/xlators/cluster/dht/src/dht-selfheal.c
@@ -2495,7 +2495,7 @@ dht_dir_attr_heal (void *data)
 NULL, NULL, NULL, NULL);
     } else {
         ret = syncop_setattr (subvol, &local->loc, &local->mds_stbuf,
-            (GF_SET_ATTR_UID | GF_SET_ATTR_GID),
+            (GF_SET_ATTR_UID | GF_SET_ATTR_GID | GF_SET_ATTR_MODE),
            NULL, NULL, NULL, NULL);
         }
     }

--
1.8.3.1
From 0b7fa3bd3334c70d99d1a1b99c3e37d49fc66e3 Mon Sep 17 00:00:00 2001
From: Atin Mukherjee <amukherj@redhat.com>
Date: Mon, 12 Mar 2018 19:47:11 +0530
Subject: [PATCH 184/201] cli/glusterfsd: remove copyright information

There's no point of dumping upstream copyright information in --version.

Label: DOWNSTREAM ONLY

Change-Id: I3a10e30878698e1d53082936bbf22bca560a3896
BUG: 1550474
Signed-off-by: Atin Mukherjee <amukherj@redhat.com>
Reviewed-on: https://code.engineering.redhat.com/gerrit/132445
Tested-by: RHGS Build Bot <nigelb@redhat.com>
Reviewed-by: Milind Changire <mchangir@redhat.com>

---
cli/src/cli.c               | 10 +--------
glusterfsd/src/glusterfsd.c | 10 +--------
2 files changed, 2 insertions(+), 18 deletions(-)

diff --git a/cli/src/cli.c b/cli/src/cli.c
index ce06366..52c1b67 100644
--- a/cli/src/cli.c
+++ b/cli/src/cli.c
@@ -66,15 +66,7 @@ extern int connected;
 /* using argp for command line parsing */

 const char *argp_program_version = ""
-        PACKAGE_NAME" "PACKAGE_VERSION"
-        
-        "Repository revision: " GLUSTERFS_REPOSITORY_REVISION "n"
-        "Copyright (c) 2006-2016 Red Hat, Inc. "
-        "<https://www.gluster.org/>
-        "GlusterFS comes with ABSOLUTELY NO WARRANTY.n"
-        "It is licensed to you under your choice of the GNU Lesser
-        "General Public License, version 3 or any later version (LGPLv3n"
-        "or later), or the GNU General Public License, version 2 (GPLv2)n"
-        "in all cases as published by the Free Software Foundation.");
+        PACKAGE_NAME" "PACKAGE_VERSION; const char *argp_program_version = ";

 struct rpc_clnt *global_quotad_rpc;

diff --git a/glusterfsd/src/glusterfsd.c b/glusterfsd/src/glusterfsd.c
index eeffdc5..38b863c 100644
--- a/glusterfsd/src/glusterfsd.c
+++ b/glusterfsd/src/glusterfsd.c
@@ -87,15 +87,7 @@ static char gf_doc[] = ""
 static char argp_doc[] = "--volfile-server=SERVER [MOUNT-POINT]
 const char *argp_program_version = ""
+        PACKAGE_NAME" "PACKAGE_VERSION; const char *argp_program_version = ";

 static error_t parse_opts (int32_t key, char *arg, struct argp_state *state);
--
1.8.3.1
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Version 3, 29 June 2007

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Dan Winship
David Ignacio
David Zeuthen
Didier 'Ptitjes
dyfet@gnutelephony.org
Eduardo Lima Mitev
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If 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
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Author
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Peter Schaffter (peter@schaffter.ca)
1-355 Lafontaine Ave
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Source Files
----------

. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.

Please look into snprintf.c for the copyright message.

The complete snprintf package together with documentation is available from

   http://www.ijs.si/software/snprintf/.

. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.
The original package can be found at http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z.

```
src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp
```

The `gxditview` output device. It is based on X11's `xditview` program and thus has the X license.

```
src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c
```
Macro Packages

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

. The -mdoc macro set, using the BSD license.

  tmac/doc.tmac
  tmac/doc-old.tmac
  tmac/doc-common
  tmac/doc-ditroff
  tmac/doc-nroff
  tmac/doc-syms
  tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

  tmac/e.tmac
  tmac/groff_me.man
  doc/meintro.me
  doc/meref.me

Hyphenation Patterns

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

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
the TeX system written by Donald E. Knuth; the master file can be found
at

          ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available
under the filenames `hyphen.<language>', e.g. `hyphen.de' or
`hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the same patterns as the file
`frhyph.tex' (for TeX), which can be found at

          http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which
can be found at
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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehyphht.tex' (for TeX), which can be found at

    http://dante.ctan.org/CTAN/language/hyphenation/dehyphn.tex
    http://dante.ctan.org/CTAN/language/hyphenation/dehyphht.tex

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. The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at

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. The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

    http://dante.ctan.org/CTAN/macros/cstex/base/csplain.tar.gz

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From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Vladimir Serbinenko <phcoder@gmail.com>
Date: Fri, 20 Mar 2015 11:13:58 +0100
Subject: [PATCH] cacheinfo: Add missing license information.

---
grub-core/commands/cacheinfo.c | 2 ++
1 file changed, 2 insertions(+)
diff --git a/grub-core/commands/cacheinfo.c b/grub-core/commands/cacheinfo.c
index ead6ff82cfc..d34a346964c 100644
--- a/grub-core/commands/cacheinfo.c
+++ b/grub-core/commands/cacheinfo.c
@@ -23,6 +23,8 @@
#include <grub/i18n.h>

@ @ -23,6 +23,8 @@

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+GRUB_MOD_LICENSE ("GPLv3+"),
+
static grub_err_t
grub_rescue_cmd_info (struct grub_command *cmd __attribute__ ((unused)),
    int argc __attribute__ ((unused)),
From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
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grub-core/lib/arm64/setjmp.S | 2 ++
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From: Stephane Rochoy <sheda>
Date: Sun, 22 Jun 2014 01:35:52 +0200
Subject: [PATCH] * grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass
pointer to EFI system table.

---
grub-core/loader/i386/bsd.c | 8 ++++++++ 
include/grub/i386/netbsd_bootinfo.h | 7 +++++++
ChangeLog | 5+++++
3 files changed, 20 insertions(+)
diff --git a/grub-core/loader/i386/bsd.c b/grub-core/loader/i386/bsd.c
index 41ef9109ee1..8f691e0e2d1 100644
--- a/grub-core/loader/i386/bsd.c
+++ b/grub-core/loader/i386/bsd.c
@@ -1145,6 +1145,14 @@ grub_netbsd_boot (void)
    if (err)
      return err;
+    #ifdef GRUB_MACHINE_EFI
+      err = grub_bsd_add_meta (NETBSD_BTINFO_EFI,
+                              &grub_efi_system_table,
+                              sizeof (grub_efi_system_table));
+    if (err)
+      return err;
+    #endif
+  
+  struct bsd_tag *tag;
+  tag_buf_len = 0;
diff --git a/include/grub/i386/netbsd_bootinfo.h b/include/grub/i386/netbsd_bootinfo.h
index e48c19b4089..9b4f4604103 100644
--- a/include/grub/i386/netbsd_bootinfo.h
+++ b/include/grub/i386/netbsd_bootinfo.h
@@ -58,6 +58,8 @@
#define NETBSD_BTINFO_BOOTWEDGE 10
#define NETBSD_BTINFO_MODULES 11
#define NETBSD_BTINFO_FRAMEBUF 12
+#define NETBSD_BTINFO_USERCONFCOMMANDS 13
+#define NETBSD_BTINFO_EFI 14

struct grub_netbsd_bootinfo
{
  @ @ -146,4 +148,9 @ @ struct grub_netbsd_btinfo_framebuf

#define GRUB_NETBSD_MAX_ROOTDEVICE_LEN 16
+struct grub_netbsd_btinfo_efi
+{
+  void *pa_systbl; /* Physical address of the EFI System Table */
+};
+
+#endif

diff --git a/ChangeLog b/ChangeLog
index abf8f4b2716..0cdd095a498 100644
--- a/ChangeLog
+++ b/ChangeLog
@@ -1,3 +1,8 @@
+2014-06-21  Stephane Rochoy <sheda>
+
+* grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to
+  EFI system table.
+2014-06-21  Stephane Rochoy <sheda>
+
* grub-core/commands/efi/lsefisystab.c (grub_cmd_lsefisystab): Show

1.141 grubby 8.28 :25.el7.centos
1.141.1 Available under license :

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1.144 gtk2 2.24.31 :1.el7.centos

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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<h3>3. Time Zone Database</h3>

ICU uses the public domain data and code derived from Time Zone Database for its time zone support. The ownership of the TZ database is explained in BCP 175: Procedure for Maintaining the Time Zone Database section 7.

7. Database Ownership

The TZ database itself is not an IETF Contribution or an IETF document. Rather it is a pre-existing and regularly updated work that is in the public domain, and is intended to remain in the public domain. Therefore, BCPs 78 [RFC5378] and 79 [RFC3979] do not apply.
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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

## Shared library options
LD.SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao
## Compilation rules

%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<

%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

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

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

## Dependency rules

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

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

## Versioned libraries rules

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

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

## End FreeBSD-specific setup

1.155 ifplugd 0.28 :1.2.el7.centos

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 * this sample code.
 */

*/
*/

import java.awt.AWTPermission;
import java.awt.Frame;
import java.awt.event.WindowAdapter;
import java.awt.event.WindowEvent;
import javax.swing. *;

/**
 * Font2DTestApplet.java
 *
 * @author Shinsuke Fukuda
 * @author Ankit Patel [Conversion to Swing - 01/07/30]
 */
/// Applet version of Font2DTest that wraps the actual demo

public final class Font2DTestApplet extends JApplet {
    public void init() {
        /// Check if necessary permission is given...
        SecurityManager security = System.getSecurityManager();
        if (security != null) {
            try {
                security.checkPermission(new AWTPermission("showWindowWithoutWarningBanner"));
            }
            catch (SecurityException e) {
                System.out.println("NOTE: showWindowWithoutWarningBanner AWTPermission not given.\n" +
                "Zoom window will contain warning banner at bottom when shown\n");
            }
            try {
                security.checkPrintJobAccess();
            }
            catch (SecurityException e) {
                System.out.println("NOTE: queuePrintJob RuntimePermission not given.\n" +
                "Printing feature will not be available\n");
            }
        }
        final JFrame f = new JFrame("Font2DTest");
        final Font2DTest f2dt = new Font2DTest(f, true);
        f.addWindowListener(new WindowAdapter() {
            public void windowClosing(WindowEvent e) { f.dispose(); }
        });
        f.getContentPane().add(f2dt);
        f.pack();
        f.show();
    }

/* TestECDSA -- Ensure ECDSA signatures are working.
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1.174 javapackages-tools 3.4.1 :11.el7.centos

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1.175 jbigkit 2.0 :11.el7.centos

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1.177 json-c 0.11 :4.el7.centos

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# 0 leshort 0x0436 psf screen font data
>2 byte 0 256 characters, no index
>2 byte 1 512 characters, no index
>2byte256 characters, Unicode index
>2byte3512 characters, Unicode index
>2byte4256 characters, Unicode level 2 index
>2byte5512 characters, Unicode level 2 index
>3byte8x%d
#  # PC Screen (console) Fonts - psf2 header  #
# 0 lelong0x864ab572psf2 screen font data
>12lelong&1 with Unicode index
>16lelongx%b, %d glyphs
>28lelongx%b, %dx
>24lelongx%b%d
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setleds.c setmetamode.c setvesablank.c showconsolefont.c
spawn_console.c spawn_login.c
chvt.1 deallocvt.1 kbd_mode.1 setleds.1 setmetamode.1
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(in case you are wondering where CyberLogin is, EON changed its login
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Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
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Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would
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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
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 *
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   long as you offer spare parts or customer support for that product
   model, to give anyone who possesses the object code either (1) a
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   product that is covered by this License, on a durable physical
   medium customarily used for software interchange, for a price no
   more than your reasonable cost of physically performing this
   conveying of source, or (2) access to copy the
   Corresponding Source from a network server at no charge.

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

d) Convey the object code by offering access from a designated
   place (gratis or for a charge), and offer equivalent access to the
   Corresponding Source in the same way through the same place at no
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Thanks go to the following people for patches and contributions:

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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
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Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for patching the cable card decoder driver

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for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
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for the tda1004x frontend driver, and various bugfixes

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for the driver for the Technisat SkyStar2 PCI DVB card

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for his work on the budget drivers, the demux code,
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for adding support for Typhoon DVB-S budget card

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for maintaining v4l/dvb inter-tree dependencies

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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2725
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Michael Chu <mmchu@pobox.com>
   AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
   Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
   Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
   Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
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static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
```

```c
#ifndef __LICENSE_H
#define __LICENSE_H

static inline int license_is_gpl_compatible(const char *license)
```

```c
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
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Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia
Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
Hiroshi Doyu
Seth Forshee
Ivan Gomez Castellanos
Mark Grosen
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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk) */
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
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1.183 keyutils 1.5.8 :3.el7.centos

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

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

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import os
import sys
import re

def warn(fname, ln, msg):
    print('%s: %d: %s' % (fname, ln + 1, msg))

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License ends before first line of code')
        else:
            text_seen = True

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# This program is intended to be used by "make check-copyright". It
# checks for violations of the coding standards related to copyright
# and license statements in source code comments.
warn(fname, ln, 'License after code')
elif nonlicense_seen:
    warn(fname, ln, 'License after non-license comments')
break

# DB2 licenses start with '/' and we don't want to change them.
if line != '' and line != '-':
    text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'/\* ([^ \*]+)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'/\*.*?\*/', '', line)
            line = line.strip()

        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())
        is_license = check_comment(comment, fname, comment_starts_at,
                                     code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
        elif line.strip() != '':
            code_seen = True
In += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

/* .*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil .*- */
/*
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
src/lib/gssapi include the following files:

lib/gssapi/generic/gssapi_err_generic.c
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_rel_buffer.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_rel_cred.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_rel_name.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_rel_oid_set.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_seal.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_sign.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_store_cred.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_unseal.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_userok.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_utils.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_verify.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">gssd_pname_to_uid.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">oid_ops.c</span>

<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">spnego</span><span class="o">/</span><span class="n">spnego_mech.c</span>
and the initial implementation of incremental propagation, including the following new or changed files:

```python
#include/iprop_hdr.h
/kadmin/server/ipropd_svc.c
/lib/kdb/iprop.c
/lib/kdb/kdb_convert.c
/lib/kdb/kdb_log.c
/lib/krb5/error_tables/kdb5_err.et
/slave/kpropd_rpc.c
/slave/kproplog.c
```

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.. parsed-literal::

   lib/gssapi/generic/gssapi_err_generic.et
   lib/gssapi/mechglue/g_accept_sec_context.c
   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
   lib/gssapi/mechglue/g_compare_name.c
   lib/gssapi/mechglue/g_context_time.c
   lib/gssapi/mechglue/g_delete_sec_context.c
   lib/gssapi/mechglue/g_dsp_name.c
   lib/gssapi/mechglue/g_dsp_status.c
   lib/gssapi/mechglue/g_dup_name.c
   lib/gssapi/mechglue/g_exp_sec_context.c
   lib/gssapi/mechglue/g_export_name.c
   lib/gssapi/mechglue/g_glue.c
   lib/gssapi/mechglue/g_imp_name.c
   lib/gssapi/mechglue/g_imp_sec_context.c
   lib/gssapi/mechglue/g_init_sec_context.c
   lib/gssapi/mechglue/g_initialize.c
   lib/gssapi/mechglue/g_inquire_context.c
   lib/gssapi/mechglue/g_inquire_cred.c
   lib/gssapi/mechglue/g_inquire_names.c
   lib/gssapi/mechglue/g_process_context.c
   lib/gssapi/mechglue/g_rel_buffer.c
   lib/gssapi/mechglue/g_rel_cred.c
   lib/gssapi/mechglue/g_rel_name.c
   lib/gssapi/mechglue/g_rel_oid_set.c
   lib/gssapi/mechglue/g_seal.c
   lib/gssapi/mechglue/g_sign.c
   lib/gssapi/mechglue/g_store_cred.c
   lib/gssapi/mechglue/g_unseal.c
   lib/gssapi/mechglue/g_userok.c
   lib/gssapi/mechglue/g_utils.c
   lib/gssapi/mechglue/g_verify.c
   lib/gssapi/mechglue/gssd_pname_to_uid.c
   lib/gssapi/mechglue/mglueP.h
   lib/gssapi/mechglue/oid_ops.c
   lib/gssapi/spnego/gssapiP_spnego.h
   lib/gssapi/spnego/spnego_mech.c
and the initial implementation of incremental propagation, including
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.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
    lib/krb5/error_tables/kdb5_err.et
    slave/kpropd_rpc.c
    slave/kproplog.c

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
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lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
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lib/gssapi/mechglue/g_rel_buffer.c
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lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
and the initial implementation of incremental propagation, including
the following new or changed files:

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
    lib/krb5/error_tables/kdb5_err.et
    slave/kpropd_rpc.c
    slave/kproplog.c

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import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

    def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
        text_seen = False

        # Check a comment for boilerplate violations. Return true if the comment
        # is a license statement.
is_license = False
for line in comment:
    if not is_license and indicates_license(line):
        is_license = True
    if text_seen:
        warn(fname, ln, 'License begins after first line of comment')
    elif code_seen:
        warn(fname, ln, 'License after code')
    elif nonlicense_seen:
        warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/*-' and we don't want to change them.
    if line != '' and line != '-':
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* ([^ \*]*)\( - .*)? */\*', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'\*\*\*|\*\*\*\*\*', '', line)
            line = line.strip()
        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
comment.append(comment_part.strip())
is_license = check_comment(comment, fname, comment_starts_at,
    code_seen, nonlicense_seen)
nonlicense_seen = nonlicense_seen or not is_license
in_comment = False
elif line.strip() != "":
    code_seen = True

ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]  
f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*
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lib/krb5/kdb/kdb_convert.c
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lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
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```
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<tt class="docutils literal"><span class="pre">kadmin/server</span></tt>, <tt class="docutils literal"><span class="pre">lib/kadm5</span></tt>, and portions of
<tt class="docutils literal"><span class="pre">lib/rpc</span></tt>:</p>

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<p>The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in src/lib/gssapi:</p>
</div></blockquote>

```python
lib/gssapi/generic/gssapi_err_generic.c
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/gssapi.c
lib/gssapi/mechglue/mechglue.c
```

---

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2954
class="n">g_inquire_cred</span><span class="o">.</span><span class="n">c</span>

 class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_process_context</span><span class="o">.</span><span class="n">c</span>
and the initial implementation of incremental propagation, including
the following new or changed files:

```python
include/gprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
```

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    VERSION: '1.15.1',
    COLLAPSE_INDEX: false,
    FILE_SUFFIX: '.html',
    HAS_SOURCE: true
};
</script>
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<script type="text/javascript" src="_static/underscore.js"></script>
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.. parsed-literal::

    lib/gssapi/generic/gssapi_err_generic.et
    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g_dsp_name.c
    lib/gssapi/mechglue/g_dsp_status.c
    lib/gssapi/mechglue/g_dup_name.c
    lib/gssapi/mechglue/g_exp_sec_context.c
    lib/gssapi/mechglue/g_export_name.c
    lib/gssapi/mechglue/g_glue.c
    lib/gssapi/mechglue/g_imp_name.c
    lib/gssapi/mechglue/g_imp_sec_context.c
    lib/gssapi/mechglue/g_init_sec_context.c
    lib/gssapi/mechglue/g_initialize.c
    lib/gssapi/mechglue/g_inquire_context.c
    lib/gssapi/mechglue/g_inquire_cred.c
    lib/gssapi/mechglue/g_inquire_names.c
    lib/gssapi/mechglue/g_process_context.c
    lib/gssapi/mechglue/g_rel_buffer.c
    lib/gssapi/mechglue/g_rel_cred.c
    lib/gssapi/mechglue/g_rel_name.c
    lib/gssapi/mechglue/g_rel_oid_set.c
    lib/gssapi/mechglue/g密封.c
    lib/gssapi/mechglue/g_sign.c
    lib/gssapi/mechglue/g_store_cred.c
    lib/gssapi/mechglue/g_unseal.c
    lib/gssapi/mechglue/g_userok.c
and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
    lib/krb5/error_tables/kdb5_err.et
    slave/kpropd_rpc.c
    slave/kproplog.c

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
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a) Accompany the work with the complete corresponding
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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,
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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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1.193 libcacard 2.5.2 :2.el7.centos

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

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

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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.

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

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

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

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

@sp 1
@item
Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

@sp 1
@item
If distribution of the work is made by offering access to copy from a
designated place, offer equivalent access to copy the above specified materials from the same place.

@sp 1
@item
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
@end enumerate

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

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@enumerate a

@sp 1
@item
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@sp 1
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Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
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Ty Coon, President of Vice
}
@end format

That's all there is to it!

@c @bye

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Version 2.1, February 1999

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and
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That's all there is to it!

1.198 libcroco 0.6.12 :4.el7.centos
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Version 2, June 1991

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

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

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

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1.200 libdaemon 0.14 :7.el7.centos
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1.201 libdb 5.3.21 :24.el7.centos

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1.202 libdrm 2.4.91 :3.el7.centos

1.203 libedit 3.0 :12.20121213cvs.el7.centos

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1.204 libepoxy 1.5.2 :1.el7.centos

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    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head>
    <link rel="stylesheet" type="text/css" href="styles.css" />
    <title>uthash: a hash table for C structures</title>
</head>
<body>
<div id="banner">
    <img src="banner.png" alt="uthash: a hash table for C structures" />
</div> <!-- banner -->

<div id="topnav">
    <a href="http://troydhanson.github.com/uthash/">uthash home</a> >
    BSD license
</div>

<hr />

<div id="mid">
    <div id="main">
        <pre>
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    </div>
</div>

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1.212 libgpg-error 1.12 :3.el7.centos

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*)

(** This is the traditional virt-sparsify mode: We copy from a
source disk to a destination disk. *)

type tmp_place =
| Directory of string | Block_device of string | Prebuilt_file of string

val run : string -> string -> Cmdline.check_t -> bool -> string option -> string option -> string list -> bool -> string
option -> string option -> string list -> unit

(* virt-sparsify
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(* This is the traditional virt-sparsify mode: We copy from a
source disk to a destination disk. *)

open Unix
open Printf
open Std_utils
open Tools_utils
open Common_gettext.Gettext
open Unix_utils
open Utils
open Cmdline

module G = Guestfs

type tmp_place =
| Directory of string | Block_device of string | Prebuilt_file of string

let run indisk outdisk check_tmpdir compress convert
  format ignores machine_readable option tmp_param zeroes =

(* Once we have got past argument parsing and start to create
temporary files (including the potentially massive overlay file), we
need to catch SIGINT (^C) and exit cleanly so the temporary file
goes away. Note that we don't delete temporaries in the signal
handler. *)
let do_sigint _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);
let output_format =
  match convert with
  | Some fmt -> fmt (* user specified output conversion *)
  | None ->
  match format with
  | Some fmt -> fmt (* user specified input format, use that *)
  | None ->
  (* Don’t know, so we must autodetect. *)
  match (open_guestfs ()#disk_format indisk) with
  | "unknown" ->
    error (f_"cannot detect input disk format; use the --format parameter")
  | fmt -> fmt

(* Compression is not supported by raw output (RHBZ#852194). *)
if output_format = "raw" && compress then
  error (f_"--compress cannot be used for raw output. Remove this option or use --convert qcow2.");

(* Use TMPDIR or --tmp parameter? *)
let tmp_place =
  match tmp_param with
  | None -> Directory (Filename.get_temp_dir_name ()) (* $TMPDIR or /tmp *)
  | Some dir when is_directory dir -> Directory dir
  | Some dev when is_block_device dev -> Block_device dev
  | Some file when String.is_prefix file "prebuilt:" ->
    let g = open_guestfs () in
    if g#disk_format file <> "qcow2" then
      error (f_"--tmp prebuilt:file: %s: file format is not qcow2")
    if not (g#disk_has_backing_file file) then
      error (f_"--tmp prebuilt:file: %s: file does not have backing file")
    Prebuilt_file file
  | Some path ->
    error (f_"--tmp parameter must point to a directory, block device or prebuilt file") in

(* Check there is enough space in temporary directory. *)
(match tmp_place with
  | Block_device _
  | Prebuilt_file _ -> ()
  | Directory tmpdir ->
    (* Get virtual size of the input disk. *)
    let virtual_size = (open_guestfs ()#disk_virtual_size indisk in
    debug "input disk virtual size is %Ld bytes (%s)"
virtual_size (human_size virtual_size);

let print_warning () =
    let free_space = StatVFS.free_space (StatVFS.statvfs tmpdir) in
    let extra_needed = virtual_size -^ free_space in
    if extra_needed > 0L then (]
        warning (f_"
    There may not be enough free space on %s.
    You may need to set TMPDIR to point to a directory with more free space.

    Max needed: %s. Free: %s. May need another %s.

    Note this is an overestimate. If the guest disk is full of data
then not as much free space would be required.

    You can ignore this warning or change it to a hard failure using the
--check-tmpdir=(ignore|continue|warn|fail) option. See virt-sparsify(1).

    %!"
        tmpdir (human_size virtual_size)
        (human_size free_space) (human_size extra_needed);
        true
    ) else false
in

match check_tmpdir with
| `Ignore -> ()
| `Continue -> ignore (print_warning ())
| `Warn ->
    if print_warning () then (]
        eprintf "Press RETURN to continue or ^C to quit.\n%!"
        ignore (read_line ())
    );
| `Fail ->
    if print_warning () then (]
        eprintf "Exiting because --check-tmpdir=fail was set.\n%!"
        exit 2
    )
);

(* Create the temporary overlay file. *)
let overlaydisk =
    (match tmp_place with
    | Directory tmpdir ->
        message (f_"Create overlay file in %s to protect source disk") tmpdir
    | Block_device device ->
        message (f_"Create overlay device %s to protect source disk") device
    | Prebuilt_file file ->
message (f_"Using prebuilt file %s as overlay") file
);

(* Create 'tmp' with the indisk as the backing file. *)
let create tmp =
  let g = open_guestfs () in
g#disk_create
    ~backingfile:indisk ?backingformat:format ~compat:"1.1"
  tmp "qcow2" Int64.minus_one
in

match tmp_place with
  | Directory temp_dir ->
    let tmp = Filename.temp_file ~temp_dir "sparsify" ".qcow2" in
    unlink_on_exit tmp;
    create tmp;
    tmp

  | Block_device device ->
    create device;
    device

  | Prebuilt_file file ->
    (* Don't create anything, use the prebuilt file as overlay. *)
    file in

message (f_"Examine source disk");

(* Connect to libguestfs. *)
let g =
  let g = open_guestfs () in

  (* Note that the temporary overlay disk is always qcow2 format. *)
  g#add_drive ~format:"qcow2" ~readonly:false ~cachemode:"unsafe" overlaydisk;

  if not (quiet ()) then Progress.set_up_progress_bar ~machine_readable g;
  g#launch ();

  g in

  (* Decrypt the disks. *)
  inspect_decrypt g;

  (* Modify SIGINT handler (set first above) to cancel the handle. *)
  let do_sigint _ =
    g#user_cancel ();
    exit 1
  in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Write zeroes for non-ignored filesystems that we are able to mount,
* and selected swap partitions.
*)
let filesystems = g#list_filesystems () in
let btrfs_filesystems = List.filter (fun (fs, fstype) -> fstype = "btrfs") filesystems in
let btrfs_filesystems = List.map fst btrfs_filesystems in
let filesystems = List.map fst filesystems in
let filesystems = List.sort compare filesystems in

let is_ignored fs =
  let fs = g#canonical_device_name fs in
  List.exists (fun fs' -> fs = g#canonical_device_name fs') ignores in

let is_read_only_lv = is_read_only_lv g in

let is_readonly_btrfs_snapshot fs mp =
  try
    let is_btrfs = List.mem fs btrfs_filesystems in
    if is_btrfs then (try
      let vol_info = g#btrfs_subvolume_show mp in
      String.find (List.assoc "Flags" vol_info) "readonly" <> -1
      with G.Error _ -> false
    )
    with Not_found -> false
  with false

let is_readonly_device mp =
  let statvfs = g#statvfs mp in
  let flags = statvfs.G.flag in
  (* 0x01 is ST_RDONLY in Linux' GNU libc. *)
  flags <> -1_L && (flags &^ 0x1_L) <> 0_L

List.iter (fun fs ->
  if not (is_ignored fs) && not (is_read_only_lv fs) then (if List.mem fs zeroes then (message (f_"Zeroing %s") fs;

  g#zero_device fs
  )

)
let mounted =
  try g#mount fs "/"; true
  with _ -> false in

if mounted then
  if is_readonly_btrfs_snapshot fs "/" then (
    info (f_"Skipping %s, as it is a read-only btrfs snapshot.") fs;
  ) else if is_readonly_device "/" then (
    info (f_"Skipping %s, as it is a read-only device.") fs;
  ) else (
    message (f_"Fill free space in %s with zero") fs;
    g#zero_free_space "/
    )
  ) else (
    let is_linux_x86_swap =
      (* Look for the signature for Linux swap on i386.
      * Location depends on page size, so it definitely won't
      * work on non-x86 architectures (eg. on PPC, page size is
      * 64K). Also this avoids hibernated swap space: in those,
      * the signature is moved to a different location.
      *)
      try g#pread_device fs 10 4086L = "SWAPSPACE2"
      with _ -> false in

    if is_linux_x86_swap then (
      message (f_"Clearing Linux swap on %s") fs;

      (* Don't use mkswap. Just preserve the header containing
      * the label, UUID and swap format version (libguestfs
      * mkswap may differ from guest's own).
      *)
      let header = g#pread_device fs 4096 0L in
      g#zero_device fs;
      if g#pwrite_device fs header 0L <> 4096 then
        error (f_"pwrite: short write restoring swap partition header")
      )
   );

  ) filesystems;

  (* Fill unused space in volume groups. *)
  let vgs = g#vgs () in
  let vgs = Array.to_list vgs in
  let vgs = List.sort compare vgs in
  List.iter (
fun vg ->
  if not (List.mem vg ignores) then (  
    let lvname = String.random8 () in  
    let lvdev = "/dev/" ^ vg ^ "^/" ^ lvname in  
    let created =  
      try g#lvcreate_free lvname vg 100; true  
      with _ -> false in  
    if created then (  
      message (f_"Fill free space in volgroup %s with zero") vg;  
      g#zero_device lvdev;  
      g#sync ();  
      g#lvremove lvdev  
    )  
  ) vgs;

(* Don't need libguestfs now. *)
g#shutdown ();
g#close ();

(* Modify SIGINT handler (set first above) to just exit. *)
let do_sigint _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Now run qemu-img convert which copies the overlay to the  
* destination and automatically does sparsification.  
*)
message ("Copy to destination and make sparse");

let cmd =
  sprintf "qemu-img convert -f qcow2 -O %s%s%s %s %s"
    (quote output_format)
    (if compress then "-c" else "")
    (match option with  
      | None -> ""  
      | Some option -> "-o " ^ quote option)
    (quote overlaydisk) (quote (qemu_input_filename outdisk)) in
  if shell_command cmd <> 0 then
    error (f_"external command failed: %s") cmd;

(* Finished. *)
message (f_"Sparsify operation completed with no errors.");
if not (quiet ()) then
  info (f_"Before deleting the old disk, carefully check that the target disk boots and works correctly.")
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1.215 libguestfs 1.38.2 :12.el7.centos.1

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(* This is the traditional virt-sparsify mode: We copy from a
* source disk to a destination disk.
*)

open Unix
open Printf
open Std_utils
open Tools_utils
open Common_gettext.Gettext
open Unix_utils
open Utils
open Cmdline

module G = Guestfs

type tmp_place =
| Directory of string | Block_device of string | Prebuilt_file of string

let run indisk outdisk check_tmpdir compress convert
    format ignores machine_readable option tmp_param zeroes =

    (* Once we have got past argument parsing and start to create
    * temporary files (including the potentially massive overlay file), we
    * need to catch SIGINT (^C) and exit cleanly so the temporary file
    * goes away. Note that we don't delete temporaries in the signal
    * handler.
    *)
    let do_sigint _ = exit 1 in
    Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

    (* What should the output format be? If the user specified an
    * input format, use that, else detect it from the source image.
    *)
    let output_format =
        match convert with
        | Some fmt -> fmt (* user specified output conversion *)
match format with
| None ->
| Some fmt -> fmt  (* user specified input format, use that *)
| None ->
  (* Don’t know, so we must autodetect. *)
  match (open_guestfs ())#disk_format indisk with
  | "unknown" ->
    error (f_"cannot detect input disk format; use the --format parameter")
  | fmt -> fmt in

(* Compression is not supported by raw output (RHBZ#852194). *)
if output_format = "raw" &&& compress then
  error (f_"--compress cannot be used for raw output. Remove this option or use --convert qcow2.");

(* Use TMPDIR or --tmp parameter? *)
let tmp_place =
  match tmp_param with
  | None -> Directory (Filename.get_temp_dir_name ()) (* $TMPDIR or /tmp *)
  | Some dir when is_directory dir -> Directory dir
  | Some dev when is_block_device dev -> Block_device dev
  | Some file when String.is_prefix file "prebuilt:" ->
    let file = String.sub file 9 (String.length file - 9) in
    if not (Sys.file_exists file) then
      error (f_"--tmp prebuilt:file: %s: file does not exist") file;
    let g = open_guestfs () in
    if g#disk_format file <> "qcow2" then
      error (f_"--tmp prebuilt:file: %s: file format is not qcow2") file;
    if not (g#disk_has_backing_file file) then
      error (f_"--tmp prebuilt:file: %s: file does not have backing file")
    file;
    Prebuilt_file file
  | Some path ->
    error (f_"--tmp parameter must point to a directory, block device or prebuilt file") in

(* Check there is enough space in temporary directory. *)
(match tmp_place with
  | Block_device _
  | Prebuilt_file _ -> ()
  | Directory tmpdir ->
    (* Get virtual size of the input disk. *)
    let virtual_size = (open_guestfs ())#disk_virtual_size indisk in
dump "input disk virtual size is %Ld bytes (%s)"
    virtual_size (human_size virtual_size);

    let print_warning () =
      let free_space = StatVFS.free_space (StatVFS.statvfs tmpdir) in
      let extra_needed = virtual_size ^ free_space in
      if extra_needed > 0L then (
There may not be enough free space on %s.
You may need to set TMPDIR to point to a directory with more free space.

Max needed: %s. Free: %s. May need another %s.

Note this is an overestimate. If the guest disk is full of data
then not as much free space would be required.

You can ignore this warning or change it to a hard failure using the
--check-tmpdir=(ignore|continue|warn|fail) option. See virt-sparsify(1).

%!

tmpdir (human_size virtual_size)
  (human_size free_space) (human_size extra_needed);
true
) else false
in

match check_tmpdir with
| `Ignore -> ()
| `Continue -> ignore (print_warning ())
| `Warn ->
  if print_warning () then (
    eprintf "Press RETURN to continue or ^C to quit.\n%!");
    ignore (read_line ())
  );
| `Fail ->
  if print_warning () then (
    eprintf "Exiting because --check-tmpdir=fail was set.\n%!");
    exit 2
  )
);

(* Create the temporary overlay file. *)
let overlaydisk =
  (match tmp_place with
  | Directory tmpdir ->
    message (f_"Create overlay file in %s to protect source disk") tmpdir
  | Block_device device ->
    message (f_"Create overlay device %s to protect source disk") device
  | Prebuilt_file file ->
    message (f_"Using prebuilt file %s as overlay") file
  );

(* Create 'tmp' with the indisk as the backing file. *)
let create tmp =
  let g = open_guestfs () in
g#disk_create
  ~backingfile:indisk ?backingformat:format ~compat:"1.1"
  tmp "qcow2" Int64.minus_one
in

match tmp_place with
  | Directory temp_dir ->
    let tmp = Filename.temp_file ~temp_dir "sparsify" ".qcow2" in
    unlink_on_exit tmp;
    create tmp;
    tmp

  | Block_device device ->
    create device;
    device

  | Prebuilt_file file ->
    (* Don't create anything, use the prebuilt file as overlay. *)
    file in
message (f_"Examine source disk");

(* Connect to libguestfs. *)
let g =
  let g = open_guestfs () in

(* Note that the temporary overlay disk is always qcow2 format. *)
g#add_drive ~format:"qcow2" ~readonly:false ~cachemode:"unsafe" overlaydisk;

if not (quiet ()) then Progress.set_up_progress_bar ~machine_readable g:
  g#launch ();
  g in

(* Decrypt the disks. *)
inspect_decrypt g;

(* Modify SIGINT handler (set first above) to cancel the handle. *)
let do_sigint _ =
  g#user_cancel ();
  exit 1
in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Write zeroes for non-ignored filesystems that we are able to mount,
* and selected swap partitions. *)
let filesystems = g#list_filesystems () in
let btrfs_filesystems = List.filter (fun (fs, fstype) -> fstype = "btrfs") filesystems in
let btrfs_filesystems = List.map fst btrfs_filesystems in
let filesystems = List.map fst filesystems in
let filesystems = List.sort compare filesystems in

let is_ignored fs =
  let fs = g#canonical_device_name fs in
  List.exists (fun fs' -> fs = g#canonical_device_name fs') ignores in

let is_read_only_lv = is_read_only_lv g in

let is_readonly_btrfs_snapshot fs mp =
  try
    let is_btrfs = List.mem fs btrfs_filesystems in
    if is_btrfs then (try
      let vol_info = g#btrfs_subvolume_show mp in
      String.find (List.assoc "Flags" vol_info) "readonly" <> -1
      with G.Error _ -> false
    ) else false
  with Not_found -> false
in

let is_readonly_device mp =
  let statvfs = g#statvfs mp in
  let flags = statvfs.G.flag in
  (* 0x01 is ST_RDONLY in Linux' GNU libc. *)
  flags <> -1_L && (flags &^ 0x1_L) <> 0_L
in

List.iter (fun fs ->
  if not (is_ignored fs) && not (is_read_only_lv fs) then (if List.mem fs zeroes then (message (f_"Zeroing %s") fs; g#zero_device fs)
  ) else (let mounted = try g#mount fs "/"; true with _ -> false in
    if mounted then (if is_readonly_btrfs_snapshot fs "/" then (}
info (f_" Skipping %s, as it is a read-only btrfs snapshot.") fs;
) else if is_readonly_device "/" then (  
info (f_" Skipping %s, as it is a read-only device.") fs;
) else (  
message (f_" Fill free space in %s with zero") fs;
g#zero_free_space "/"
)
)
)
)
)
)
)
let is_linux_x86_swap =  
(* Look for the signature for Linux swap on i386.  
* Location depends on page size, so it definitely won't  
* work on non-x86 architectures (eg. on PPC, page size is  
* 64K). Also this avoids hibernated swap space: in those,  
* the signature is moved to a different location.  
*)
try g#pread_device fs 10 4086L = "SWAPSPACE2"  
with _ -> false in

if is_linux_x86_swap then (  
message (f_" Clearing Linux swap on %s") fs;

(* Don't use mkswap. Just preserve the header containing  
* the label, UUID and swap format version (libguestfs  
* mkswap may differ from guest's own).  
*)
let header = g#pread_device fs 4096 0L in  
g#zero_device fs;  
if g#pwrite_device fs header 0L <> 4096 then  
error (f_" pwrite: short write restoring swap partition header")
)
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)
try g#lvcreate_free lvname vg 100; true
with _ -> false in

if created then (
  message (f_"Fill free space in volgroup %s with zero") vg;

  g#zero_device lvdev;
  g#sync ();
  g#lvremove lvdev
)
)
) vgs;

(* Don't need libguestfs now. *)
g#shutdown ();
g#close ();

(* Modify SIGINT handler (set first above) to just exit. *)
let do_sigint _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Now run qemu-img convert which copies the overlay to the
  * destination and automatically does sparsification.
  *)
message ("Copy to destination and make sparse");

let cmd =
sprintf "qemu-img convert -f qcow2 -O %s%s%s %s %s"
  (quote output_format)
  (if compress then " -c" else "")
  (match option with
   | None -> ""
   | Some option -> " -o " ^ quote option)
  (quote overlaydisk) (quote (gemu_input_filename outdisk)) in
if shell_command cmd <> 0 then
  error (f_"external command failed: %s") cmd;

(* Finished. *)
message (f_"Sparsify operation completed with no errors");
if not (quiet ()) then
  info (f_"Before deleting the old disk, carefully check that the target disk boots and works correctly.");
(* virt-sparsify
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  *
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  * it under the terms of the GNU General Public License as published by
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  * (at your option) any later version.

** This is the traditional virt-sparsify mode: We copy from a
source disk to a destination disk. *)

type tmp_place =
| Directory of string | Block_device of string | Prebuilt_file of string

val run : string -> string -> Cmdline.check_t -> bool -> string option -> string option -> string list -> bool -> string
option -> string option -> string list -> unit
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<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
1.218 libiscsi 1.9.0:7.el7.centos

1.218.1 Available under license:

Libiscsi components fall under two separate licences.

The lib and include directories

The iscsi client library itself, i.e. the lib and include directories, is licenced under GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

The library also contains one file: lib/md5.c that is under Public Domain.

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This is the licence that applies to the libiscsi library and its use.

src/ld_iscsi.c

This LD_PRELOAD utility is licenced under GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

The src, examples and test-tool directories EXCEPT src/ld_iscsi.c

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These are executable applications that link with the libiscsi library.

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Version 2.1, February 1999

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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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 example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.238 libsepol 2.5 :10.el7.centos

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

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

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

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

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

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

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

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

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1.239 libSM 1.2.2 :2.el7.centos

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1.244 libssl1.1 1.1b-r1

1.245 libtalloc 2.1.13 :1.el7.centos

1.246 libtasn1 4.10 :1.el7.centos

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control
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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
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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
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be optional: if the application does not supply it, the square
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1.272 libXfixes 5.0.3 :1.el7.centos

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1.273 libXfont 1.5.4 :1.el7.centos

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1.274 libXft 2.3.2 :2.el7.centos

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1.275 libXi 1.7.9 :1.el7.centos

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1.276 libXinerama 1.1.3 :2.1.el7.centos

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1.277 libxml2 2.9.1 :6.el7.centos.3

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1.278 libXpm 3.5.12 :1.el7.centos

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1.279 libXrandr 1.5.1 :2.el7.centos

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1.280 libXrender 0.9.10 :1.el7.centos
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agere_sta_fw.bin -- 9.48 Hermes I
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The Linux driver architecture was based on two modules, the MSF (Module specific functions) and the HCF (Hardware Control Functions). Included in the HCF is run-time firmware (binary format) which is downloaded into the RAM of the Hermes 1/2/2.5 WMAC.

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Hope this helps.

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Viren Pathare
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Fast discrete Fourier and cosine transforms and inverses
author: Monty <xiphmont@mit.edu>
modifications by: Monty
last modification date: Jul 1 1996

/* These Fourier routines were originally based on the Fourier routines of the same names from the NETLIB bihar and fftpack fortran libraries developed by Paul N. Swarztrauber at the National Center for Atmospheric Research in Boulder, CO USA. They have been reimplemented in C and optimized in a few ways for OggSquish. */

/* As the original fortran libraries are public domain, the C Fourier routines in this file are hereby released to the public domain as well. The C routines here produce output exactly equivalent to the original fortran routines. Of particular interest are the facts that (like the original fortran), these routines can work on arbitrary length vectors that need not be powers of two in length. */
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The README file from the original package from Micronas appears below. Only the part about the firmware redistribution in section 0 is relevant, all other sections are completely obsolete.

---------------------------------------------------------------------------
WIS GO7007SB Public Linux Driver
---------------------------------------------------------------------------

*** Please see the file RELEASE-NOTES for important last-minute updates ***

0. OVERVIEW AND LICENSING/DISCLAIMER

This driver kit contains Linux drivers for the WIS GO7007SB multi-format video encoder. Only kernel version 2.6.x is supported. The video stream is available through the Video4Linux2 API and the audio stream is available through the ALSA API (or the OSS emulation layer of the ALSA system).

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1. SYSTEM REQUIREMENTS
This driver requires Linux kernel 2.6. Kernel 2.4 is not supported. Using kernel 2.6.10 or later is recommended, as earlier kernels are known to have unstable USB 2.0 support.

A fully built kernel source tree must be available. Typically this will be linked from "/lib/modules/<KERNEL VERSION>/build" for convenience. If this link does not exist, an extra parameter will need to be passed to the `make` command.

All vendor-built kernels should already be configured properly. However, for custom-built kernels, the following options need to be enabled in the kernel as built-in or modules:

- CONFIG_HOTPLUG - Support for hot-pluggable devices
- CONFIG_MODULES - Enable loadable module support
- CONFIG_KMOD - Automatic kernel module loading
- CONFIG_FW_LOADER - Hotplug firmware loading support
- CONFIG_I2C - I2C support
- CONFIG_VIDEO_DEV - Video For Linux
- CONFIG_SOUND - Sound card support
- CONFIG_SND - Advanced Linux Sound Architecture
- CONFIG_USB - Support for Host-side USB
- CONFIG_USB_DEVICEFS - USB device filesystem
- CONFIG_USB_EHCI_HCD - EHCI HCD (USB 2.0) support

Additionally, to use the example application, the following options need to be enabled in the ALSA section:

- CONFIG_SND_MIXER_OSS - OSS Mixer API
- CONFIG_SND_PCM_OSS - OSS PCM (digital audio) API

The hotplug scripts, along with the fxload utility, must also be installed. These scripts can be obtained from <http://linux-hotplug.sourceforge.net/>. Hotplugging is used for loading firmware into the Cypress EZ-USB chip using fxload and for loading firmware into the driver using the firmware agent.

2. COMPILING AND INSTALLING THE DRIVER

Most users should be able to compile the driver by simply running:

```
$ make
```

in the top-level directory of the driver kit. First the kernel modules will be built, followed by the example applications.
If the build system is unable to locate the kernel source tree for the currently-running kernel, or if the module should be built for a kernel other than the currently-running kernel, an additional parameter will need to be passed to make to specify the appropriate kernel source directory:

$ make KERNELSRC=/usr/src/linux-2.6.10-custom3

Once the compile completes, the driver and firmware files should be installed by running:

$ make install

The kernel modules will be placed in "/lib/modules/<KERNEL VERSION>/extra" and the firmware files will be placed in the appropriate hotplug firmware directory, usually /lib/firmware. In addition, USB maps and scripts will be placed in /etc/hotplug/usb to enable fxload to initialize the EZ-USB control chip when the device is connected.

3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)

The PAL model of the Plextor ConvertX TV402U may require additional configuration to correctly select the appropriate TV frequency band and audio subchannel.

Users with a device other than the Plextor ConvertX TV402U-EU should skip this section.

The wide variety of PAL TV systems used in Europe requires that additional information about the local TV standards be passed to the driver in order to properly tune TV channels. The two necessary parameters are (a) the PAL TV band, and (b) the audio subchannel format in use.

In many cases, the appropriate TV band selection is passed to the driver from applications. However, in some cases, the application only specifies that the driver should use PAL but not the specific information about the appropriate TV band. To work around this issue, the correct TV band may be specified in the "force_band" parameter to the wis-sony-tuner module:

<table>
<thead>
<tr>
<th>TV band</th>
<th>force_band</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAL B/G</td>
<td>B</td>
</tr>
<tr>
<td>PAL I</td>
<td>I</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>D</td>
</tr>
<tr>
<td>SECAM L</td>
<td>L</td>
</tr>
</tbody>
</table>

If the "force_band" parameter is specified, the driver will ignore any TV
band specified by applications and will always use the band provided in the module parameter.

The other parameter that can be specified is the audio subchannel format. There are several stereo audio carrier systems in use, including NICAM and three varieties of A2. To receive audio broadcast on one of these stereo carriers, the "force_mpx_mode" parameter must be specified to the wis-sony-tuner module.

<table>
<thead>
<tr>
<th>TV band</th>
<th>Audio subcarrier</th>
<th>force_mpx_mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAL B/G</td>
<td>Mono (default)</td>
<td>1</td>
</tr>
<tr>
<td>PAL B/G</td>
<td>A2</td>
<td>2</td>
</tr>
<tr>
<td>PAL B/G</td>
<td>NICAM</td>
<td>3</td>
</tr>
<tr>
<td>PAL I</td>
<td>Mono (default)</td>
<td>4</td>
</tr>
<tr>
<td>PAL I</td>
<td>NICAM</td>
<td>5</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>Mono (default)</td>
<td>6</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (1)</td>
<td>7</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (2)</td>
<td>8</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (3)</td>
<td>9</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>NICAM</td>
<td>10</td>
</tr>
<tr>
<td>SECAM L</td>
<td>Mono (default)</td>
<td>11</td>
</tr>
<tr>
<td>SECAM L</td>
<td>NICAM</td>
<td>12</td>
</tr>
</tbody>
</table>

If the "force_mpx_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not receive stereo audio or bilingual broadcasts correctly.

To pass the "force_band" or "force_mpx_mode" parameters to the wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

```
options wis-sony-tuner force_band=B force_mpx_mode=2
```

The above example would force the tuner to the PAL B/G TV band and receive stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

```
$ modprobe -c | grep wis-sony-tuner
```

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

4. TESTING THE DRIVER
Because few Linux applications are able to correctly capture from Video4Linux2 devices with only compressed formats supported, the new driver should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR. This will be captured to a file for testing the driver. If an input source is unavailable, a test file can still be captured, but the video will be black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the hardware and will record video and audio to an AVI file for a specified number of seconds. For example:

$ apps/gorecord -duration 60 capture.avi

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in /var/log/messages) should provide information to help resolve the problem.

Supplying no parameters to gorecord will cause it to probe the available devices and exit. Use the -help flag for usage information.

5. USING THE DRIVER

The V4L2 device implemented by the driver provides a standard compressed format API, within the following criteria:

* Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.

* No raw video modes are supported, so applications like xawtv that expect only uncompressed video will not function.

* Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.

* MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.

* Video parameters such as format and input port may not be changed while the encoder is active.

* The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when
the encoder is inactive will result in an I/O error.

* The native format of the audio device is 48Khz 2-channel 16-bit little-endian PCM, delivered through the ALSA system. No audio compression is implemented in the hardware. ALSA may convert to other uncompressed formats on the fly.

The include/ directory contains a C header file describing non-standard features of the GO7007SB encoder, which are described below:

**GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS**

These ioctls are used to negotiate general compression parameters.

To query the current parameters, call the GO7007IOC_G_COMP_PARAMS ioctl with a pointer to a struct go7007_comp_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_comp_params and call the GO7007_IOC_S_COMP_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or current compression mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_comp_params:

- `__u32 gop_size`: The maximum number of frames in each Group Of Pictures; i.e. the maximum number of frames minus one between each key frame.

- `__u32 max_b_frames`: The maximum number of sequential bidirectionally-predicted frames. (B-frames are not yet supported.)

- `enum go7007_aspect_ratio aspect_ratio`: The aspect ratio to be encoded in the meta-data of the compressed format.

Choices are:

- GO7007_ASPECT_RATIO_1_1
- GO7007_ASPECT_RATIO_4_3_NTSC
- GO7007_ASPECT_RATIO_4_3_PAL
- GO7007_ASPECT_RATIO_16_9_NTSC
- GO7007_ASPECT_RATIO_16_9_PAL
__u32 Bit-wise OR of control flags (below)
flags

Flags in struct go7007_comp_params:

GO7007_COMP_CLOSED_GOP  Only produce self-contained GOPs, used to produce streams appropriate for random seeking.

GO7007_COMP_OMIT_SEQ_HEADER Omit the stream sequence header.

GO7007IOC_S_MPEG_PARAMS, GO7007IOC_G_MPEG_PARAMS

These ioctl's are used to negotiate MPEG-specific stream parameters when the pixelformat has been set to V4L2_PIX_FMT_MPEG.

To query the current parameters, call the GO7007IOC_G_MPEG_PARAMS ioctl with a pointer to a struct go7007_mpeg_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_mpeg_params and call the GO7007_IOC_S_MPEG_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or selected MPEG mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_mpeg_params:

enum go7007_mpeg_video_standard
mpe_video_standard The MPEG video standard in which to compress the video.

Choices are:
GO7007_MPEG_VIDEO_MPEG1
GO7007_MPEG_VIDEO_MPEG2
GO7007_MPEG_VIDEO_MPEG4
__u32 Bit-wise OR of control flags (below)
flags
__u32 The profile and level indication to be stored in the sequence header. This is only used as an indicator to the
decoder, and does not affect the MPEG features used in the video stream.
Not valid for MPEG1.

Choices for MPEG2 are:
GO7007_MPEG2_PROFILE_MAIN_MAIN

Choices for MPEG4 are:
GO7007_MPEG4_PROFILE_S_L0
GO7007_MPEG4_PROFILE_S_L1
GO7007_MPEG4_PROFILE_S_L2
GO7007_MPEG4_PROFILE_S_L3
GO7007_MPEG4_PROFILE_ARTS_L1
GO7007_MPEG4_PROFILE_ARTS_L2
GO7007_MPEG4_PROFILE_ARTS_L3
GO7007_MPEG4_PROFILE_ARTS_L4
GO7007_MPEG4_PROFILE_AS_L0
GO7007_MPEG4_PROFILE_AS_L1
GO7007_MPEG4_PROFILE_AS_L2
GO7007_MPEG4_PROFILE_AS_L3
GO7007_MPEG4_PROFILE_AS_L4
GO7007_MPEG4_PROFILE_AS_L5

Flags in struct go7007_mpeg_params:

GO7007_MPEG_FORCE_DVD_MODE   Force all compression parameters and bitrate control settings to comply with DVD MPEG2 stream requirements.
This overrides most compression and bitrate settings!

GO7007_MPEG_OMIT_GOP_HEADER Omit the GOP header.

GO7007_MPEG_REPEAT_SEQHEADER Repeat the MPEG sequence header at the start of each GOP.

GO7007IOC_S_BITRATE, GO7007IOC_G_BITRATE

These ioctls are used to set and query the target bitrate value for the compressed video stream. The bitrate may be selected by storing the target bits per second in an int and calling GO7007IOC_S_BITRATE with a pointer to the int. The bitrate may be queried by calling GO7007IOC_G_BITRATE with a pointer to an int where the current bitrate will be stored.

Note that this is the primary means of controlling the video quality for all compression modes, including V4L2_PIX_FMT_MJPEG. The
VIDIOC_S_JPEGCOMP ioctl is not supported.

---------------------------------------------------
Installing the WIS PCI Voyager Driver
---------------------------------------------------

The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x kernel source tree before compiling the driver. These patches update the in-kernel SAA7134 driver to the newest development version and patch bugs in the TDA8290/TDA8275 tuner driver.

The following patches must be downloaded from Gerd Knorr’s website and applied in the order listed:

http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner
http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2
http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg
http://dl.bytesex.org/patches/2.6.11-2/saa7134-update

The following patches are included with this SDK and can be applied in any order:

patches/2.6.11/saa7134-voyager.diff
patches/2.6.11/tda8275-newaddr.diff
patches/2.6.11/tda8290-ntsc.diff

Check to make sure the CONFIG_VIDEO_SAA7134 option is enabled in the kernel configuration, and build and install the kernel.

After rebooting into the new kernel, the GO7007 driver can be compiled and installed:

$ make SAA7134_BUILD=y
$ make install
$ modprobe saa7134-go7007

There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the GO7007. It can be tested using the gorecord application in the apps/ directory of this SDK:

$ apps/gorecord -vdevice /dev/video1 -noaudio test.avi
Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL), and the video standard must be specified to both the raw and the compressed video devices (xawtv and gorecord, for example).

RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER

Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE_UDEV=n". To force the use of udev, run "make install USE_UDEV=y".

- Motion detection is supported but undocumented. Try the `modet` app for a demonstration of how to use the facility.

- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to inconsistency in the bitrate control mechanism.

- On devices with an SAA7115, including the Plextor ConvertX, video height values of 96, 128, 160, 192, 256, 320, and 384 do not work in NTSC mode. All valid heights up to 512 work correctly in PAL mode.

- The WIS Star Trek and PCI Voyager boards have no support yet for audio or the TV tuner.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

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

<one line to give the program's name and a brief idea of what it does.>
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

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

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.


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

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; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

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

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }
define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

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

  while.body: ; preds = %exit.2, %while.body.lr.ph
    %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
    switch i32 undef, label %exit [ i32 1, label %sw.bb.i i32 2, label %sw.bb3.i ]
  }

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

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

  exit: ; preds = %while.body
    switch i32 undef, label %exit.2 [ i32 1, label %sw.bb.i17 i32 2, label %sw.bb3.i20 ]
  }

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

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

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

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

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

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

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

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

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {  
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res

; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246:                          : preds = %CF246, %BB
%SI163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248:                          : preds = %CF248, %CF246
store i8 %SI163, i8* %0
br label %CF248
}
; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
;
; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
  ; CHECK-LABEL:  TestSelect:
  ; CHECK      movaps 16(%rsp), %xmm1
  ; CHECK-NEXT  callq __subtf3
  ; CHECK-NEXT  testl %ebx, %ebx
  ; CHECK-NEXT  jg .LBB0_2
  ; CHECK-NEXT  movaps .LCPI0_0(%rip), %xmm0
  ; CHECK-NEXT  .LBB0_2:
  ; CHECK-NEXT  addq $32, %rsp
  ; CHECK-NEXT  popq %rbx
  ; CHECK-NEXT  retq
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
  ; CHECK-LABEL: TestFabs:
  ; CHECK      andps .LCPI1_0(%rip), %xmm0
  ; CHECK-NEXT retq
}
define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
    %mul = fmul fp128 %a, %a
    %res = fsub fp128 0xL00000000000000008000000000000000, %mul
    ret fp128 %res
}

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@end
@interface NSString : NSObject
@end

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

@class Derived;

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

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

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

// rdar://10751015
@protocol NSCopying @end
@interface I
- (void) Meth : (id <NSCopying>)aKey; // expected-note {{passing argument to parameter 'aKey' here}}
@end
@class ForwarClass; // expected-note 3 {{conformance of forward class ForwarClass to protocol NSCopying can not be confirmed}}

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

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

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

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

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========

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'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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

hello world
merhaba dnya

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

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

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--> 
<!- Generated by Apache Maven Doxia at May 6, 2012 -->
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<title>Apache log4j 1.2 - Project License</title>
<style type="text/css" media="all">
  @import url("./css/maven-base.css");
  @import url("./css/maven-theme.css");
  @import url("./css/site.css");
</style>
<link rel="stylesheet" href="./css/print.css" type="text/css" media="print" />
<meta name="Date-Revision-yyyyymmd" content="20120506" />
<meta http-equiv="Content-Language" content="en" />
</head>
<body class="composite">
<div id="banner">
  <a href="../." id="bannerLeft">
    <img src="images/ls-logo.jpg" alt="Apache Logging Services Project" />
  </a>
  <a href=".."><img src="images/logo.jpg" alt="Apache log4j" /></a>
</div>
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<br >/body
</html>
About log4j 1.2

<ul>
<li class="none">
<a href="index.html" title="What is log4j?">What is log4j?</a>
</li>
<li class="none">
<a href="download.html" title="Download">Download</a>
</li>
<li class="none">
<a href="faq.html" title="FAQ">FAQ</a>
</li>
<li class="none">
<a href="roadmap.html" title="Roadmap">Roadmap</a>
</li>
<li class="none">
<a href="../index.html" title="log4j">log4j</a>
</li>
<li class="none">
<a href="../../index.html" title="Logging Services">Logging Services</a>
</li>
</ul>
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Version 2.1, February 1999

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* imap_gssapi.c is partially derived from sample code in:
* GSS-API Programming Guide
* Part No: 816-1331-11
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* hmac.c is derived from:

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

HMAC: Keyed-Hashing for Message Authentication

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Parts of nss.c are derived from the Mozilla NSS 3.9.2 source,
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1.304 man-db 2.6.3 :11.el7.centos

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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That's all there is to it!

1.305 mariadb 5.5.60 :1.el7.centos

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== MariaDB ==

The Debian package of MySQL was first debianzed on 1997-04-12 by Christian
Schwarz <schwarz@debian.org> and is maintained since 1999-04-20 by
Christian Hammers <ch@debian.org>.

The MariaDB packages were initially made by http://ourdelta.org/, and
are now managed by the MariaDB development team,
maria-developers@lists.launchpad.net

MariaDB can be downloaded from http://downloads.askmonty.org/mariadb/

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To allow free software with other licenses than the GPL to link against the
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> Therefore there are special exceptions to the terms and conditions
of the GPLv2 as applied to these client libraries, which are
identified and described in more detail in the FOSS License
Exception at

The manual had to be removed as it is not free in the sense of the
Debian Free Software Guidelines (DFSG).

== innotop ==

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Warnings:
Warning1681'SHOW CONTRIBUTORS' is deprecated and will be removed in a future release.
--echo '#---------------------BS_STVARS_040_01----------------------#'
# Displaying default value
#
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_02----------------------#'
# Check if Value can set
#
--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;
--echo Expected error 'Read only variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_03----------------------#'
# Check if the value in GLOBAL Table matches value in variable
#
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

--echo 1 Expected

--echo '#---------------------BS_STVARS_040_04----------------------#'
# Check if accessing variable with and without GLOBAL point to same variable #
#***********************************************************************
SELECT @@license = @@GLOBAL.license;
--echo 1 Expected

--echo 1 Expected

--echo '#---------------------BS_STVARS_040_05----------------------#'
# Check if license can be accessed with and without @@ sign    
#***********************************************************************
SELECT COUNT(@@license);
--echo 1 Expected

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@local.license);
--echo Expected error 'Variable is a GLOBAL variable'

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@SESSION.license);
--echo Expected error 'Variable is a GLOBAL variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--Error ER_BAD_FIELD_ERROR
SELECT license = @@SESSION.license;
--echo Expected error 'Readonly variable'

'#---------------------BS_STVARS_040_01----------------------#'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SET @@GLOBAL.license=1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
@@GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
COUNT(VARIABLE_VALUE)
1
1 Expected

SELECT @@license = @@GLOBAL.license;
@@license = @@GLOBAL.license
1
1 Expected
SELECT COUNT(@@license);
COUNT(@@license)
1
1 Expected
SELECT COUNT(@@local.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT license = @@SESSION.license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'Readonly variable'
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Version 2, June 1991

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

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

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

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

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

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

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

TERMS AND CONDITIONS

0. Definitions.

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

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

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

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1.306 mcelog 144:10.94d853b2ea81.el7.centos

1.307 mdadm 4.1 :rc1_2.el7.centos

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1.308 mesa 18.0.5 :3.el7.centos
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<!DOCTYPE HTML PUBLIC "-/W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html lang="en">
<head>
<meta http-equiv="content-type" content="text/html; charset=utf-8">


<p>Mesa is a 3-D graphics library with an API which is very similar to that of <a href="https://www.opengl.org/">OpenGL</a>.* To the extent that Mesa utilizes the OpenGL command syntax or state machine, it is being used with authorization from <a href="https://www.sgi.com/">Silicon Graphics, Inc.</a>(SGI). However, the author does not possess an OpenGL license from SGI, and makes no claim that Mesa is in any way a compatible replacement for OpenGL or associated with SGI. Those who want a licensed implementation of OpenGL should contact a licensed vendor.</p>

<p>Please do not refer to the library as <em>MesaGL</em> (for legal reasons). It's just <em>Mesa</em> or <em>The Mesa 3-D graphics library</em>.</p>

<p>* OpenGL is a trademark of <a href="https://www.sgi.com/">Silicon Graphics Incorporated</a>.</p>

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The core Mesa library is licensed according to the terms of the MIT license. This allows integration with the XFree86, Xorg and DRI projects.

The default Mesa license is as follows:

```plaintext
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```

<h1>Attention, Contributors</h1>

When contributing to the Mesa project you must agree to the licensing terms of the component to which you're contributing. The following section lists the primary components of the Mesa distribution and their respective licenses.

<h1>Mesa Component Licenses</h1>

```plaintext
Component   Location   License
-----------------------------------------------
Main Mesa code  src/mesa/    MIT
```
Device drivers src/mesa/drivers/* MIT, generally

Gallium code src/gallium/ MIT

Ext headers include/GL/glext.h Khronos
include/GL/glxext.h

GLX client code src/glx/ SGI Free Software License B

C11 thread include/c11/threads*.h Boost (permissive)
  emulation
</pre>

<p>
In general, consult the source files for license terms.
</p>

</div>
</body>
</html>
abcdefhijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

0123456789
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..
/* Legal characters in GLSL are:
 * Identifier characters:
 *     Letters a-z
 *     Letters A-Z
 *     Underscore
 *     Numbers 0-9
 *
 * Punctuation:
 *
 *     Period, plus, dash, slash, asterisk, percent, angled brackets,
 *     square brackets, parentheses, braces, caret, vertical bar,
 *     ampersand, tilde, equals, exclamation point, colon, semicolon,
 *     comma, and question mark
 *
 * Special:
 *
 *     Number sign (as used in preprocessor)
 *
 *     Backslash just before newline as line continuation
 *
 * White space:
 *
 *     Space, horizontal tab, vertical tab, form feed, carriage-return,
 *     and line-feed.
 *
 * [GLSL Language Specficiation 4.30.6, section 3.1]
 *
 * In this file, we test each of these in turn as follows:
 *
 *     Identifier characters: All pass through unchanged
 *     Punctuation: All pass through unchanged
 *     Special: Empty directive replaced with blank line
 *     Line continuation merges two lines, then a blank line
 *     Whitespace: 4 horizontal space characters each replaced with space
 *     2 newline characters each replaced with a newline
 */

abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKMLNOPQRSTUVWXYZ
_0123456789
+ -
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Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license
On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> 
> What we meant with that is that we made an exception for clause 2.
> Instead of clause 2, in the case of the Mesa project, you have to name
> the technique Jimenez's MLAA in the config options of Mesa. We did that
> just to allow them to solve license issues. This exception should be for
> the Mesa project, and any project using Mesa, like Fedora.
>
> We want to widespread usage of our MLAA, so we want to avoid any kind of
> license complications. Hope current one is good for Fedora, if not
> please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
  "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
  Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with
Mesa, is that sufficient to meet clause 2 even if the Mesa config option
is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological
  anti-aliasing based on Jimenez's MLAA. 0 to disable, 8 for default
  quality". Is this in compliance with your exception?

Thanks again,

~tom

==
Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

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license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
 * "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
 * Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal
==
Fedora Project

1.309 mesa 18.0.5 :4.el7.centos
1.309.1 Available under license :

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

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CC: jorge@iryoku.com
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Thanks again,

~tom

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Fedora Project

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From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
*
"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
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/* Legal characters in GLSL are:
 *
 * Identifier characters:
 * *
 * Letters a-z
 * Letters A-Z
 * Underscore
 * Numbers 0-9
 *
 * Punctuation:
 * *
 * Period, plus, dash, slash, asterisk, percent, angled brackets,
 * square brackets, parentheses, braces, caret, vertical bar,
 * ampersand, tilde, equals, exclamation point, colon, semicolon,
 * comma, and question mark
 *
 * Special:
 * *
 * Number sign (as used in preprocessor)
 * */
* Backslash just before newline as line continuation
* 
* White space:
* 
* Space, horizontal tab, vertical tab, form feed, carriage-return, 
* and line-feed.
* 
* [GLSL Language Specification 4.30.6, section 3.1]
* 
* In this file, we test each of these in turn as follows:
* 
* Identifier characters: All pass through unchanged
* Punctuation: All pass through unchanged
* Special: Empty directive replaced with blank line
* Line continuation merges two lines, then a blank line
* Whitespace: 4 horizontal space characters each replaced with space
* 2 newline characters each replaced with a newline
* 
*/

abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKMLNOPQRSTUVWXYZ
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0123456789
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?#

Open Source Used In SD-WAN Cloud OnRamp for Colocation Solution Guide Release 20.1
4222
Mesa is a 3-D graphics library with an API which is very similar to that of <a href="https://www.opengl.org/">OpenGL</a>.* To the extent that Mesa utilizes the OpenGL command syntax or state machine, it is being used with authorization from <a href="https://www.sgi.com/">Silicon Graphics, Inc.</a>(SGI). However, the author does not possess an OpenGL license from SGI, and makes no claim that Mesa is in any way a compatible replacement for OpenGL or associated with SGI. Those who want a licensed implementation of OpenGL should contact a licensed vendor.

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<table>
<thead>
<tr>
<th>Component</th>
<th>Location</th>
<th>License</th>
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<tr>
<td>Main Mesa code</td>
<td>src/mesa/</td>
<td>MIT</td>
</tr>
<tr>
<td>Device drivers</td>
<td>src/mesa/drivers/*</td>
<td>MIT, generally</td>
</tr>
<tr>
<td>Gallium code</td>
<td>src/gallium/</td>
<td>MIT</td>
</tr>
</tbody>
</table>
Ext headers include/GL/glext.h Khronos
include/GL/glxext.h

GLX client code src/glx/ SGI Free Software License B

C11 thread include/c11/threads*.h Boost (permissive)
emulation
</pre>

<p>
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</p>

</div>
</body>
</html>

1.310 microcode_ctl 2.1 :47.el7.centos

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This updated microcode supersedes microcode provided by Red Hat with the CVE-2017-5715 (Spectre) CPU branch injection vulnerability mitigation.

Historically, Red Hat has provided updated microcode, developed by our microprocessor partners, as a customer convenience. Red Hat had temporarily suspended this practice while microcode stabilized. Red Hat is once again providing an updated Intel microcode package (microcode_ctl) and AMD microcode package (linux-firmware) to customers in order to simplify deployment processes and minimize downtime. We continue to update these microcode packages as necessary. Please contact your hardware vendor to determine whether more recent BIOS/firmware updates are recommended because additional improvements may be available.

This kbase https://access.redhat.com/articles/3436091 includes a table that maps Intel and AMD CPU processor code family names to updated Intel and AMD microcode package versions.

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1.311 migrationtools 47 :15.el7.centos

1.312 mozjs17 17.0.0 :20.el7.centos
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1.313 mtools 4.0.18 :5.el7.centos

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
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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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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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

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

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Table of Contents

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  o Preamble
  o TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
  o How to Apply These Terms to Your New Programs
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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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

c) Accompany the work with a written offer, valid for at
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d) If distribution of the work is made by offering access to copy
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include/keysym.js
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Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
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- Takao Abe  
  Clock driver for JJY receivers

- Mark Andrews  
  Leitch atomic clock controller

- Bernd Altmeier  
  hopf Elektronik serial line and PCI-bus devices

- Viraj Bais  
  and Clayton Kirkwood  
  port to WindowsNT 3.5

- Michael Barone  
  GPSVME fixes

- Karl Berry  
  syslog to file option

- Greg Brackley  
  Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.

- Marc Brett  
  Magnavox GPS clock driver

- Piete Brooks  
  MSF clock driver, Trimble PARSE support

- Nelson Bolyard  
  update and complete broadcast and crypto features in sntp

- Jean-Francois Boudreault  
  IPv6 support

- Reg Clemens  
  Oncore driver (Current maintainer)

- Steve Clift  
  OMEGA clock driver

- Casey Crellin  
  vxWorks (Tornado) port and help with target configuration

- Sven Dietrich  
  Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.

- John A. Dundas III  
  Apple A/UX port

- Torsten Duwe  
  Linux port
Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
Mike Iglesias <iglesias@uci.edu> DEC Alpha port
Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
Hans Lambermont <H.Lambermont@chello.nl> ntpsweep
Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
Frank Kardel <kardel (at) ntp (dot) org> PARSE <GENERIC> driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
William L. Jones <jones@hermes.chpc.utexas.edu> 4.4BSD port, ppssclock, Magnavox GPS clock driver
George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG
Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
Derek Mulcahy
<derek@toybox.demon.co.uk> and <a href="mailto:%20d@hd.org">Damon Hart-Davis <d@hd.org></a>/a> ARCron MSF clock driver
<li class="inline"><a href="mailto:%20rainer@informatik.uni-erlangen.de">Rainer Pruy</a> monitoring/trap scripts, statistics file handling</li>
<li class="inline"><a href="mailto:%20dirce@zk3.dec.com">Dirce Richards <dirce@zk3.dec.com></a>/a> Digital UNIX V4.0 port
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<li class="inline"><a href="mailto:%20vix@vix.net">Paul A Vixie <vixie@vix.net></a>/a> TrueTime GPS driver, generic TrueTime clock driver</li>
<li class="inline"><a href="mailto:%20ulrich@rz.uni-regensburg.de">Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de></a>/a> corrected and validated HTML documents according to the HTML DTD</li>
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1. [1]Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg’s Winnt port.
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
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20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
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23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26]Jeff Johnson <sjbj@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]<H.Lambermont@chello.nl> ntpsweep
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
30. [33]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
31. [34]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox
GPS clock driver
32. [35]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
33. [36]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
34. [37]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
35. [38]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
37. [40]Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
38. [41]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
39. [42]Tom Moore <tmoore@fievel.daytonoh.nrc.com> i386 svr4 port
40. [43]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
41. [44]Derek Mulcahy <derek@toybox.demon.co.uk> and [45] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
42. [46] Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
43. [47] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
44. [48] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
45. [49] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
46. [50] Nick Sayer <mnapple@quack.kfu.com> SunOS streams modules
47. [51] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
48. [52] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
49. [53] Michael Shields <shields@tembel.org> USNO clock driver
50. [54] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
51. [55] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
52. [56] Kenneth Stone <ken@sdd.hp.com> HP-UX port
53. [57] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
54. [58] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
55. [59] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
56. [60] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

References

1. mailto:%20takao_abe@xurb.jp
2. mailto:%20mark_andrews@isc.org
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1.344 openssh 7.4p1 :16.el7.centos

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#define COMPAT_POLL_H

typedef struct pollfd {
  int fd;
  short events;
  short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1)/* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */

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 *
 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#endif
#endif

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
#endif

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#endif

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4652
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*((int *)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w) & 0377))
#define WIFSTOPPED(w)(_W_INT(w) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) ((int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1))
#define WTERMSIG(w)(int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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*
* Foremost, OpenSSH from which this project is derived.
* Jamie Beverly
* Rafael D'Halleweyn - 2011-06-05 18:56:24 EDT
* Jan-Pieter Cornet ( johnpc ) - 2012-03-23 03:25:52 PDT
* chrysn@fsfe.org
* dfberger@users.noreply.github.com

diff -up openssh-7.4p1/sftp-server.8,sftp-force-mode openssh-7.4p1/sftp-server.8
--- openssh-7.4p1/sftp-server.8.sftp-force-mode2016-12-19 05:59:41.000000000 +0100
+++ openssh-7.4p1/sftp-server.82017-02-09 10:35:41.926475399 +0100
@@ -38,6 +38,7 @@
    .Op Fl P Ar blacklisted_requests
    .Op Fl p Ar whitelisted_requests
    .Op Fl u Ar umask
Sets an explicit umask 2
to be applied to newly-created files and directories, instead of the user's default mask.

Sets explicit file permissions to be applied to newly-created files instead of the default or client requested mode. Numeric values include: 777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set.


/* Force file permissions */
int permforce = 0;
long permforcemode;
+
/* SSH2_FXP_INIT received */
static int init_done;

Attrib a;
char *name;
int r, handle, fd, flags, mode, status = SSH2_FX_FAILURE;
+mode_t old_umask = 0;

if ((r = sshbuf_get_cstring(iqueue, &name, NULL)) != 0 ||
    (r = sshbuf_get_u32(iqueue, &pflags)) != 0 || /* portable flags */
@@ -688,6 +693,10 @@ process_open(u_int32_t id)
debug3("request %u: open flags %d", id, pflags);
    flags = flags_from_portable(pflags);
    mode = (a.flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a.perm : 0666;
    +if (permforce == 1) { /* Force perm if -m is set */
    +mode = permforcemode;
    +old_umask = umask(0); /* so umask does not interfere */
    +}
    logit("open \"%s\" flags %s mode 0%o", name, string_from_portable(pflags), mode);
if (readonly & &
@@ -709,6 +718,8 @@ process_open(u_int32_t id)
 {
 }
 }
+if (permforce == 1)
+(void) umask(old_umask); /* restore umask to something sane */
if (status != SSH2_FX_OK)
  send_status(id, status);
free(name);
@@ -1490,7 +1501,7 @@ sftp_server_usage(void)
 fprintf(stderr,
     "usage: %s [-ehR] [-d start_directory] [-f log_facility] "
     "[-l log_level] [-n][t-P blacklisted_requests] "
-    " [-p whitelisted_requests] [-u umask]n"
+    " [-p whitelisted_requests] [-u umask] [-m force_file_perms]n"
       " %s -Q protocol_feature\n",
     __proginame, __proginame);
 exit(1);
@@ -1516,7 +1527,7 @@ sftp_server_main(int argc, char **argv,
 pw = pwcopy(user_pw);

 while (!skipargs && (ch = getopt(argc, argv,
+   "d:f:l:P:p:Q:u:m:cehR") != -1) {  
   switch (ch) {
   case 'Q':
     if (strcasecmp(optarg, "requests") != 0) {
@@ -1576,6 +1587,15 @@ sftp_server_main(int argc, char **argv,
             fatal("Invalid umask \"%s\"", optarg);
         (void)umask((mode_t)mask);
         break;
+     case 'm':
+       /* Force permissions on file received via sftp */
+       permforce = 1;
+       permforcemode = strtol(optarg, &cp, 8);
+       if (permforcemode < 0 || permforcemode > 0777 ||
+           *cp != '0' || (permforcemode == 0 &&
+               errno != 0))
+         fatal("Invalid file mode \"%s\"", optarg);
+         break;
+     case 'h':
         default:
         sftp_server_usage();
         This file is part of the OpenSSH software.

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* Ariel Futoransky <futo@core-sdi.com>
* <http://www.core-sdi.com>

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* @version 3.0 (December 2000)

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

* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>

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 */

#ifndef HAVE_SETRESGRID
int setresgid(gid_t gid_t, gid_t gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t uid_t, uid_t uid_t);
#endif

/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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 */
/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
  int fd;
  short events;
  short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDYNORM 0x0040
#define POLLNORMPOLLRDYNORM
#define POLLWRNORM POLLOUT
#define POLLWRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) ((WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) ((WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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  \"
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  \" Werner Lemberg <wl@gnu.org>
  \"
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free
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1.368 perl 5.16.3 :293.el7.centos

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

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

use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

# Create test distribution
#-----------------------------------------------
{
    my $dist = DistGen->new(
        name => 'Simple::Name',
    );
}
version => '0.01',
license => 'perl'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'perl',
    "license 'perl' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'perl', "META license will be 'perl'" );
is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
    "META license URL is correct"
);

$

}{

my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'VaporWare'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
    "license 'VaporWare' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}{license}, "http://example.com/vaporware/",
    "META license URL is correct"
);

$

# Test with alpha number
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The End
When `%^H` is copied on entering a new scope, if it happens to have been tied it can die. This was resulting in leaks, because no protections were added to handle that case.

The two things that were leaking were the new hash in `hv_copy_hints_hv` and the new value (for an element) in `newSVsv`.

By fixing `newSVsv` itself, this also fixes any potential leaks when other pieces of code call `newSVsv` on explosive values.

Petr Pisar: Ported to 5.16.3

---

```
--- a/hv.c  b/hv.c
index 3c35341..29d6352 100644
--- a/sv.c  b/sv.c
+++ b/sv.c
@@ -1440,6 +1440,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
 const I32 riter = HvRITER_get(ohv);
 HE * const eiter = HvEITER_get(ohv);
 }
+SAVEFREESV(hv);
+while (hv_max && hv_max + 1 >= hv_fill * 2)
+    hv_max = hv_max / 2;
+HvMAX(hv) = hv_max;
@@ -1461,6 +1464,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
 }
 HvRITER_set(ohv, riter);
 HvEITER_set(ohv, eiter);
+ SvREFCNT_inc_simple_void_NN(hv);
+LEAVE;
 )
 hv_magic(hv, NULL, PERL_MAGIC_hints);
```
diff --git a/sv.c b/sv.c
index a43feac..597d71b 100644
--- a/sv.c
+++ b/sv.c
@@ -8764,11 +8764,12 @@ Perl_newSVsv(pTHX_ register SV *const old)
     Perl_ck_warner_d(aTHX_ packWARN(WARN_INTERNAL), "semi-panic: attempt to dup freed string");
 return NULL;
 }
+ /* Do this here, otherwise we leak the new SV if this croaks. */
+ SvGETMAGIC(old);
 new_SV(sv);
- /* SV_GMAGIC is the default for sv_setv() 
-  SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games 
+ /* SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games 
   with SvTEMP_off and SvTEMP_on round a call to sv_setsv. */
- sv_setsv_flags(sv, old, SV_GMAGIC | SV_NOSTEAL);
+ sv_setsv_flags(sv, old, SV_NOSTEAL);
 return sv;
 }

diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
+++ b/t/op/svleak.t
@@ -13,7 +13,7 @@ BEGIN {
 or skip_all("XS::APItest not available");
 }
- plan tests => 23;
+ plan tests => 24;

 # run some code N times. If the number of SVs at the end of loop N is 
 # greater than (N-1)*delta at the end of loop 1, we've got a leak 
@@ -176,3 +176,23 @@ leak(2, 0, sub {
     undef $h;
 }, 'tied hash iteration does not leak');
 + +
+ # [perl #107000]
+ # package hhtie {
+ + sub TIEHASH { bless [] }
+ + sub STORE { $_[0][0]{$_[1]} = $_[2] }
+ + sub FETCH { die if $explosive; $_[0][0]{$_[1]} }
+ + sub FIRSTKEY { keys %{$_[0][0]}; each %{$_[0][0]} }
+ + sub NEXTKEY { each %{$_[0][0]} }
+ +}
+ leak(2,!!$Config{mad}, sub {


```perl
+    eval q`
+    BEGIN {
+        $hhtie::explosive = 0;
+        tie %^H, hhtie;
+        $^H{foo} = bar;
+        $hhtie::explosive = 1;
+    }
+    
+    `, 'hint-hash copying does not leak');
+    --
+    1.8.1.4

1.369 perl-Algorithm-Diff 1.1902
:17.el7.centos

1.370 perl-App-cpanminus 1.6922
:2.el7.centos

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1.371 perl-Archive-Zip 1.30 :11.el7.centos

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

--------------------------------------------------------------------------
1.379 perl-Compress-Raw-Zlib 2.061 :4.el7.centos

1.380 perl-constant 1.27 :2.el7.centos

1.381 perl-CPAN-Meta 2.120921 :5.el7.centos

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

1.382 perl-CPAN-Meta-Requirements 2.122
:7.el7.centos

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    <signature of Ty Coon>, 1 April 1989
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1.385 perl-Data-Dumper 2.145 :3.el7.centos

1.386 perl-Data-OptList 0.107 :9.el7.centos

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1.388 perl-DBI 1.627 :4.el7.centos

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From cd8fcbf402e1d70e9f325f8b0fcd99e02cf14be Mon Sep 17 00:00:00 2001
From: =?UTF-8?q?Petr=20P=C3=ADsa=C5=99?= <ppisar@redhat.com>
Date: Mon, 18 Nov 2013 12:52:09 +0100
Subject: [PATCH] Security notice for Proxy
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

PIRPC is not secure due to Storable. Warn Proxy users about it.

Signed-off-by: Petr Psa <ppisar@redhat.com>
---
lib/DBD/Proxy.pm | 7 +++++++
lib/DBI/ProxyServer.pm | 7 +++++++
2 files changed, 14 insertions(+)
+L<RPC::PiServer> used underneath is not secure due to serializing and 
deserializing data with L<Storable> module. Use the proxy driver only in 
trusted environment.
+
+
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--
1.8.3.1

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1.390 perl-Digest-MD5 2.52 :3.el7.centos

1.391 perl-Digest-SHA 5.85 :4.el7.centos

1.392 perl-Digest-SHA1 2.13 :9.el7.centos

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1.399 perl-ExtUtils-ParseXS 3.18 :3.el7.centos

1.400 perl-File-Listing 6.04 :7.el7.centos

1.401 perl-File-Path 2.09 :2.el7.centos

1.402 perl-File-Temp 0.23.01 :3.el7.centos

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1.406 perl-HTML-Tagset 3.20 :15.el7.centos

1.407 perl-HTTP-Cookies 6.01 :5.el7.centos

1.408 perl-HTTP-Daemon 6.01 :8.el7.centos

1.409 perl-HTTP-Date 6.02 :8.el7.centos
1.410 perl-HTTP-Message 6.06 :6.el7.centos

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

The hypothetical commands `show w' and `show c' should show the
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necessary. Here a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (a program to direct compilers to make passes
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    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice
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1.415 perl-IO-Pipely 0.005 :4.el7.centos

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  <signature of Ty Coon>, 1 April 1989
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1.416 perl-IO-Pty-Easy 0.09 :1.el7.centos

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

The hypothetical commands `show w' and `show c' should show the
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necessary. Here a sample; alter the names:

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

    <signature of Ty Coon>, 1 April 1989
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1.417 perl-IO-Socket-IP 0.21 :5.el7.centos

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1.420 perl-IPC-Cmd 0.80 :4.el7.centos

1.421 perl-JSOn-PP 2.27202 :2.el7.centos

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1.424 perl-Locale-Maketext 1.23 :3.el7.centos

1.425 perl-Log-Dispatch 2.41 :1.el7.centos.1

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1.427 perl-Log-Log4perl 1.42 :2.el7.centos

1.428 perl-LWP-MediaTypes 6.02 :2.el7.centos

1.429 perl-Mail-Sender 0.8.23 :1.el7.centos

1.430 perl-Mail-Sendmail 0.79 :21.el7.centos

1.431 perl-MailTools 2.12 :2.el7.centos

1.432 perl-MIME-Lite 3.030 :1.el7.centos
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1.433 perl-MIME-Types 1.38 :2.el7.centos

1.434 perl-Module-Build 0.40.05 :2.el7.centos

1.434.1 Available under license :

    use strict;
    use lib 't/lib';
    use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#--------------------------------------------------------------------------#
# Create test distribution
#--------------------------------------------------------------------------#

{ my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'perl'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'perl',
  "license 'perl' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'perl', "META license will be 'perl'" );
is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
  "META license URL is correct"
);

}

{ my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'VaporWare'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
    "license 'VaporWare' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}{license}, "http://example.com/vaporware/",
    "META license URL is correct"
);

} # Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2

1.435 perl-Module-Implementation 0.06
:6.el7.centos

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1.441 perl-Mozilla-CA 20130114 :5.el7.centos

1.442 perl-Net-Daemon 0.48 :5.el7.centos

1.443 perl-Net-HTTP 6.06 :2.el7.centos

1.444 perl-Net-LibIDN 0.12 :15.el7.centos
1.444.1 Available under license:

This is the debian package for the Net-LibIDN module.
It was created by Thomas Jacob <jacob@internet24.de> using dh-make-perl.

The upstream author is:


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1.445 perl-Net-SMTP-SSL 1.01 :13.el7.centos
1.446 perl-Net-SSLeay 1.55 :6.el7.centos

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1.450 perl-Package-Stash-XS 0.26 :3.el7.centos

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    Gnomovision version 69, Copyright (C) 19xx name of author
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    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

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commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

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

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    program `Gnomovision' (a program to direct compilers to make passes
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    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

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1.451 perl-PAR-Dist 0.49 :2.el7.centos

1.452 perl-Params-Check 0.38 :2.el7.centos

1.453 perl-Params-Util 1.07 :6.el7.centos

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1.454 perl-Params-Validate 1.08 :4.el7.centos

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1.455 perl-parent 0.225 :244.el7.centos

1.456 perl-Parse-CPAN-Meta 1.4404 :5.el7.centos

1.457 perl-PathTools 3.40 :5.el7.centos

1.458 perl-Perl-OSType 1.003 :3.el7.centos

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1.459 perl-PIRPC 0.2020 :14.el7.centos

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From: =?UTF-8?q?Petr=P=C3=ADsa=C5=99?= <ppisar@redhat.com>
Date: Mon, 18 Nov 2013 12:20:52 +0100
Subject: [PATCH] Security notice on Storable and reply attack
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

Signed-off-by: Petr Psa <ppisar@redhat.com>

---
README        | 16 ++++++++++++++++  
lib/RPC/PlServer.pm | 15 ++++++++++++++++  
2 files changed, 31 insertions(+)  

diff --git a/README b/README  
index 8a68657..48a33e4 100644  
--- a/README  
+++ b/README  
@@ -204,6 +204,7 @@ EXAMPLE
require RPC::PlServer;
require MD5;

++
package MD5_Server;  # Clients need to request application
# "MD5_Server"
@@ -245,6 +246,10 @@ SECURITY
  that I missed something. Security was a design goal, but not *the*
design goal. (A well known problem ...)
++
+ Due to implementation of PIRPC, it’s hard to use internal authentication
+ mechanisms properly to achieve secured remote calls. Therefore users are
+ advised to use an external authentication mechanism like TLS or IPsec.
++
+ I highly recommend the following design principles:

Protection against "trusted" users
@@ -263,6 +268,14 @@ SECURITY
  Be restrictive
    Think twice, before you give a client access to a method.
++
+ Use of Storable
+ Storable module used for serialization and deserialization
+ underneath is inherently insecure. Deserialized data can contain
+ objects which lead to loading foreign modules and executing possible
+ attached destructors. Do not accept host-based unauthorized
+ connections. The Storable module is exercised before checking user
+ password.
++
+ perlsec
    And just in case I forgot it: Read the "perlsec" man page. :-)
@@ -283,6 +296,9 @@ SECURITY
  authorized, you should switch to a user based key. See the
  DBI::ProxyServer for an example.
++
+ Please note PIRPC encryption does not protect from reply attacks.
+ You should have implement it on the application or the cipher level.
++
AUTHOR AND COPYRIGHT
  The PIRPC-modules are

diff --git a/lib/RPC/PlServer.pm b/lib/RPC/PlServer.pm
index 10b56c9..ce38594 100644
--- a/lib/RPC/PlServer.pm
+++ b/lib/RPC/PlServer.pm
@@ -613,6 +613,10 @@ I did my best to avoid security problems, but it is more than likely,
that I missed something. Security was a design goal, but not *the* design goal. (A well known problem ...)

+Due to implementation of PIRPC, it’s hard to use internal authentication mechanisms properly to achieve secured remote calls. Therefore users are advised to use an external authentication mechanism like TLS or IPsec. +
I highly recommend the following design principles:

=head2 Protection against "trusted" users
@@ -637,6 +641,14 @@ object handle is valid before coercing a method on it.

Think twice, before you give a client access to a method.

+=item Use of Storable
+
+L<Storable> module used for serialization and deserialization underneath is inherently insecure. Deserialized data can contain objects which lead to loading foreign modules and executing possible attached destructors. Do not accept host-based unauthorized connections. The L<Storable> module is exercised before checking user password.
+
=item perlsec

And just in case I forgot it: Read the C<perlsec> man page. :-) @@ -667,6 +679,9 @@ login phase, where to use a host based key. As soon as the user has authorized, you should switch to a user based key. See the DBI::ProxyServer for an example.

+Please note PIRPC encryption does not protect from reply attacks. You should have implement it on the application or the cipher level.
+
=back

=head1 AUTHOR AND COPYRIGHT

--
1.8.3.1

1.460 perl-Pod-Perldoc 3.20 :4.el7.centos

1.461 perl-Pod-Simple 3.28 :4.el7.centos
1.462 perl-Pod-Usage 1.63 :3.el7.centos

1.463 perl-podlators 2.5.1 :3.el7.centos

1.464 perl-POE 1.367 :1.el7.centos

1.465 perl-POE-Component-Server-TacacsPlus 1.11 :1.el7.centos

1.466 perl-POE-Test-Loops 1.360 :1.el7.centos

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1.472 perl-Sys-Syslog 0.33 :3.el7.centos

1.473 perl-TermReadKey 2.30 :20.el7.centos

1.474 perl-Test-Harness 3.28 :3.el7.centos

1.475 perl-Test-Simple 1.302156 :1.el7.centos

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1.477 perl-Text-ParseWords 3.29 :4.el7.centos

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On Mon Nov 18 10:37:28 2013, mmaslano@redhat.com wrote:
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yes

--
Alexandr Ciornii, http://chorny.net
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1.479 perl-threads-shared 1.43 :6.el7.centos

1.480 perl-Time-HiRes 1.9725 :3.el7.centos

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1.482 perl-TimeDate 2.30 :2.el7.centos

1.483 perl-Try-Tiny 0.12 :2.el7.centos

1.484 perl-URI 1.60 :9.el7.centos

1.485 perl-version 0.99.07 :3.el7.centos

1.486 perl-WWW-RobotRules 6.02 :5.el7.centos

1.487 perl-XML-DOM 1.44 :19.el7.centos
1.488 perl-XML-Parser 2.41 :10.el7.centos

1.489 perl-XML-RegExp 0.04 :2.el7.centos

1.490 perl-YAML 0.84 :5.el7.centos

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The following people contributed improvements, fixes, suggestions, and
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- Edgar Johansen (edgar@storteig.com) suggested conditionals to enable compilation without UUCP_LOCK_DIR

- Scott Tsai (scott.tw@gmail.com) suggested better UUCP_LOCK_DIR definition

- Josh Handley (https://github.com/jhandley) added support for line-editing, autocompletion and history when entering "send" and "receive" file names. Editing support uses the "linenoise" library. See: https://github.com/jhandley/picocom

- Salvatore Sanfilippo (https://github.com/antirez) is the author of the linenoise line-editing library. See: https://github.com/antirez/linenoise

- From Cody Schafer's (https://github.com/jmesmon) fork originated the idea to add custom baudrate support to picocom. See: https://github.com/jmesmon/picocom

- From Paul Chakravarti's (https://github.com/paulchakravarti) fork originated the idea to add support for disabling the send- and receive-file commands, and for not using the shell when executing external programs (to avoid shell escapes). See: https://github.com/paulchakravarti/picocom-noexec

- Vicente Olivert Riera (Vincent.Riera@imgtec.com) contributed minor patches

- Peter Bradstreet (peter.bradstreet@oracle.com) helped diagnose input performance problems on overloaded / slow systems.

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1.494 pinentry 0.8.1 :17.el7.centos
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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

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

Gnomovision version 69. Copyright (C) year name of author
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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

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

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Version 2, June 1991

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

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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

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

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

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

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

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

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

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

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

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

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a) The modified work must itself be a software library.

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2,
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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<signature of Ty Coon>, 1 April 1989
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Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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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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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
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MD5 message digest algorithm
----------------------------

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose
text is available at
http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite
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The original and principal author of md5.h is L. Peter Deutsch
<ghost@aladdin.com>. Other authors are noted in the change history
that follows (in reverse chronological order):

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

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

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

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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.

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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1.517 python 2.7.13 :5.el7.centos

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.. highlightlang:: none

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***************************
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***************************

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

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

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

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

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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
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Sockets
-------

The `mod:` `socket` `module` uses the functions, `func:` `getaddrinfo`, and
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MD5 message digest algorithm

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L. Peter Deutsch
```
Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose
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http://www.ietf.org/rfc/rfc1321.txt

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

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

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

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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
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- Arguments more compliant with Python standard
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--------------------------

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test_epoll

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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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1.519 python-backports-ssl_match_hostname

3.5.0.1 :1.el7.centos

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for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goodel.dlitz.net (Postfix) with QMQP id 99A9D100AA
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)
Received: (vmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (goodel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)
Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13])
by goodel.dlitz.net (Postfix) with ESMTP id 1D3B510088
for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)
Received: from stamper.itconsult.co.uk (stamper.itconsult.co.uk
[193.201.42.31]) by m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;
Thu, 28 Aug 2008 01:45:02 +0100
To: crypt@bis.doc.gov,
    enc@nsa.gov,
    web_site@bis.doc.gov,
    pycrypto@lists.dlitz.net,
    PYTHON-CRYPTO@NIC.SURFNET.NL,
    dlitz@dlitz.net
Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net designates 64.5.53.201 as permitted sender) identity=mailto;
client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;
helo=goodel.dlitz.net; mechanism=all; envelope-from=dlitz@dlitz.net;
This certificate was issued at 00:45 (GMT)
on Thursday 28 August 2008 with reference 0520978

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

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

SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002
NOTIFICATION: http://www.pycrypto.org/

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

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

- --
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45
A. HISTORY OF THE SOFTWARE

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

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

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

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

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</table>

Footnotes:
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-- amk (www.amk.ca)

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

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Regards,
- Dwayne
--YiEDa0DAkWCtVeE4
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Content-Description: Digital signature
Content-Disposition: inline

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=abEW
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--YiEDa0DAkWCtVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <amk@amk.ca>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D
for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id D632D10111
for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)
Received: (vmailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600
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Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does not designate permitted sender hosts)
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by mail5.sea5.speakeasy.net (qmail-ldap-1.03) with AES256-SHA encrypted SMTP
for <dlitz@dlitz.net>; 23 Nov 2008 12:51:52 -0000
Date: Sun, 23 Nov 2008 07:51:34 -0500
From: "A.M. Kuchling" <amk@amk.ca>
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Subject: Re: PyCrypto license clarification
Message-ID: <20081123125134.GA21239@amk.local>
People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.

The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

The intention is that it be public domain.

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

You may.

--amk

Hi Mark,

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

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Regards,
- Dwayne

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

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

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Hi Dwayne.
Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

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

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
> I am the new maintainer of the Python Cryptography Toolkit,
> and I am
> working on a new release at http://www.pycrypto.org/.
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> it's
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======================================================================

Regards,
    - Dwayne
```

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

Key-signing key - 19E1
Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

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

> Hi Dwayne.
> 
> Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.
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(www.amk.ca)

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

-- Dwayne C. Litzenberger <dlitz@dlitz.net>  
Key-signing key - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7  
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9  179F 1C11 B877 E780 4B45  
Date: Mon, 16 Feb 2009 12:58:00 -0800  
From: Robey Pointer <robey@lag.net>  
Subject: Re: PyCrypto license clarification  
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>  
Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)  
Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>
On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

> For the next PyCrypto release, I would like to take steps to move
> toward a clearer licensing regime. I am asking as many copyright
> holders as I can find if I can release PyCrypto under something
> clearer and more standard. Below, I have quoted a public domain
> dedication that was recommended in _Intellectual Property and Open
> Source: A Practical Guide to Protecting Code_, by Van Lindberg. I
> have already contacted A. M. Kuchling, and he has approved the
> following dedication for his contributions.
>
> May I, on your behalf, dedicate to the public domain all your
> contributions to PyCrypto, with the following notice?
>
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> contributions to PyCrypto, with the following notice?
>
> =
> ======================================================================
>     The contents of this file are dedicated to the public domain. To
>     the
>     extent that dedication to the public domain is not available,
>     everyone
>     is granted a worldwide, perpetual, royalty-free, non-exclusive
>     license
>     to exercise all rights associated with the contents of this file
>     for
>     any purpose whatsoever. No rights are reserved.
>     =
>     ======================================================================
>
> In case I haven't replied to this yet: Yes, this is fine with me.

roby

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFakmZ01gACgkQQQDkKvyJ6cOLvQCFqQnYYuVODvlyLg0Pfi9LAbQ
SH8AoLJgqIi7fCZwDd/+C0VEO0xLbr
=Mr6g
-----END PGP SIGNATURE-----
Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hphh.org>
On November 23, 2008, you wrote:

> Hi Wim,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/
>
> I understand that you have made contributions to PyCrypto. May I, on
> your behalf, dedicate to the public domain all your contributions to
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> any purpose whatsoever. No rights are reserved.

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

Wim.

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.6 (Darwin)
iQCVAwUBSSnnAI8UnN8n93LBAQLp/gQAhr7x8Av1mstc2kxEJDWTm26PTAZxMz4B
FektbDOzkgc5580MGGeeX/MVn8aw+1BHg0YD85gsnIDzkcQtb+BR/xAvJ5zKya
J/Mn+l6ekJQjhu8IPHLAduOXM9Rtguas/yR+Doaq0xOPKoBx+/5+t1ILJtBcZ
wrPEa9Oui9s=
=ZY9
-----END PGP SIGNATURE-----
From dlitz@dlitz.net Mon May 4 22:49:14 2009
Date: Mon, 4 May 2009 22:49:14 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Joris Bontje <joris@bontje.nl>
Subject: PyCrypto license clarification
Hi Joris,

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

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

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

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any purpose whatsoever. No rights are reserved.

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

Regards,
- Dwayne

--

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

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.
I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

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

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

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

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Regards,
- Dwayne

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

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:

> Hi Dwayne,
>
> Thanks for taking over the PyCrypto library and putting in the required
effort to keep this going.
> I was very excited to read that it is now one of the installed libraries
> for Google AppsEngine!
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>
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>
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--amk  (www.amk.ca)

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

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

Regards,
- Dwayne

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

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068
for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 10:14:06 -0600 (CST)
Received: (vmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in 'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159
Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])
by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066
for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
d=gmail.com; s=gamma;
On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:
> Hi Paul,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.

That's great!

> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0=20
> 
> domain all your contributions to PyCrypto, with the following notice?
> 
> =C2=A0=20
> 
> The contents of this file are dedicated to the public domain. =C2=A0=20
Yes, that's fine. Good luck with the new release!

-p
--=20
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin
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>> any purpose whatsoever. No rights are reserved.

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

Perfect! Thanks for the quick response!

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

Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Barry A Warsaw <barry@python.org>
Subject: PyCrypto license clarification
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2535

Hi Barry,

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

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GPL-compatible, etc. Right now, I'm not really sure what to tell them.
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Regards,
- Dwayne

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

From barry@python.org Mon Mar 2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

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

> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,

Barry

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.9 (Darwin)
iQCVAwUBSaWJbnejvBptnsf7vqlzjgP/ecG+JdZwNvPJRfSaf6rhY6+MHLDHId6agkk
evkJnSJQAcVHIzV1VeR5lxUvDUMakZjU4SOV7MqkhkA9flet7PaD9VSYgn3ra5
gElwI2DQDoOy5GExXM74gqrb1PCCbCRmpaYNo+DZohwKheFBjwDRA3wItOrH7
SK4w9VBJfY=3D
=3DQduY
-----END PGP SIGNATURE-----
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--amk (www.amk.ca)

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

Regards,
- Dwayne

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

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

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).

I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.
I don't really check this email address all that often,
On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
>
> People often ask me what license PyCrypto is covered by, if it's
> GPL-compatible, etc. Right now, I'm not really sure what to tell them. The
> text in the current LICENSE file (quoted below) is not entirely clear on the
> point of whether distributing modified versions is allowed. (It says
> "distribute and use", but not "modify").
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>
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> not have to make source available or contribute your changes back
> (though that would be nice).
>
> --amk                                                    (www.amk.ca)
>
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Hi Dwayne,<div>My contribution to pycrypto are very very minimal (The sha256 module, IIRC). </div>or PyCrypto.  

Jeethu Rao

PS: Apologies for the delay in my response.

I don't really check this email address all that often.</div> 


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

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-- amk

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Regards,

- Dwayne
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=== EOF ===

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1.526 python-decorator 3.4.0 :3.el7.centos

1.527 python-dmidecode 3.12.2 :3.el7.centos

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DMIDecode Python Extension Module shadows the DMIDecode utility

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DMIDecode

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

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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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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
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work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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That's all there is to it!

1.538 python-linux-procfs 0.4.9 :4.el7.centos

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

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

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

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

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

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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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

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1.544 python-pyasn1 0.1.9 :7.el7.centos

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1.545 python-pycparser 2.14 :1.el7.centos

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* Dov Feldstern
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1.546 python-pycurl 7.19.0 :19.el7.centos
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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A "library" means a collection of software functions and/or data
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the
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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
* Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
* IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
* Support for explicitly closing pooled connections

* Hartator <hartator@gmail.com>
* Corrected multipart behavior for params

* Thomas Weischn <thomas@t-8ch.de>
* Support for TLS SNI
* API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
* Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
* Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
* Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
* Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/> 
* Stream method for Response objects.
* Return native strings in header values.
* Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
* Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
* Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
* Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
* Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
* Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes
* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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1.557 python-websockify 0.8.0 :1.el7.centos

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```

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1.559 python3 3.3.2 :12.el7.centos

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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
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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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.. highlightlang:: none

.. _history-and-license:

*******************
History and License
*******************

History of the software
========================

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

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

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

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

+----------------+--------------+------------+------------+-----------------+
| Release        | Derived from | Year       | Owner      | GPL compatible? |
+================+==============+============+============+=================+
| 0.9.0 thru 1.2 | n/a          | 1991-1995  | CWI        | yes             |
+----------------+--------------+------------+------------+-----------------+
| 1.3 thru 1.5.2 | 1.2          | 1995-1999  | CNRI       | yes             |
+----------------+--------------+------------+------------+-----------------+
| 1.6            | 1.5.2        | 2000       | CNRI       | no              |
+----------------+--------------+------------+------------+-----------------+
| 2.0            | 1.6          | 2000       | BeOpen.com | no              |
+----------------+--------------+------------+------------+-----------------+
| 1.6.1          | 1.6          | 2001       | CNRI       | no              |
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Mersenne Twister
----------------

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

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Floating point exception control
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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.
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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
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Mersenne Twister

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

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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
  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:

- Samuel Neves (supercop/crypto_auth/siphash24/little)
- djb (supercop/crypto_auth/siphash24/little2)
- Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa

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

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

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-------

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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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<table>
<thead>
<tr>
<th>Function Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>accept</td>
<td>Accept connection</td>
</tr>
<tr>
<td>access</td>
<td>Access file</td>
</tr>
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<td>acct</td>
<td>Account</td>
</tr>
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<td>adjtime</td>
<td>Adjust time</td>
</tr>
<tr>
<td>bind</td>
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</tr>
<tr>
<td>break</td>
<td>Break</td>
</tr>
<tr>
<td>chdir</td>
<td>Change directory</td>
</tr>
<tr>
<td>chflags</td>
<td>Change file flags</td>
</tr>
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<td>chmod</td>
<td>Change mode</td>
</tr>
<tr>
<td>chown</td>
<td>Change owner</td>
</tr>
<tr>
<td>chroot</td>
<td>Change root</td>
</tr>
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<td>clock_getres</td>
<td>Get resolution of clock</td>
</tr>
<tr>
<td>clock_gettime</td>
<td>Get time of system</td>
</tr>
<tr>
<td>clock_settime</td>
<td>Set time of system</td>
</tr>
<tr>
<td>close</td>
<td>Close file</td>
</tr>
<tr>
<td>connect</td>
<td>Connect file</td>
</tr>
<tr>
<td>dup</td>
<td>Dup file</td>
</tr>
<tr>
<td>dup2</td>
<td>Dup file with new descriptor</td>
</tr>
<tr>
<td>eaccess</td>
<td>Eaccess</td>
</tr>
<tr>
<td>execve</td>
<td>Execute program</td>
</tr>
<tr>
<td>exit</td>
<td>Exit</td>
</tr>
<tr>
<td>extattrctl</td>
<td>Extattr control</td>
</tr>
<tr>
<td>extattr_delete_fd</td>
<td>Delete file attributes for a file descriptor</td>
</tr>
<tr>
<td>extattr_delete_file</td>
<td>Delete file attributes</td>
</tr>
<tr>
<td>extattr_delete_link</td>
<td>Delete link attributes</td>
</tr>
<tr>
<td>extattr_get_fd</td>
<td>Get file attributes for a file descriptor</td>
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<tr>
<td>extattr_get_file</td>
<td>Get file attributes</td>
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<tr>
<td>extattr_get_link</td>
<td>Get link attributes</td>
</tr>
<tr>
<td>extattr_list_fd</td>
<td>List file attributes for a file descriptor</td>
</tr>
<tr>
<td>extattr_list_file</td>
<td>List file attributes</td>
</tr>
<tr>
<td>extattr_list_link</td>
<td>List link attributes</td>
</tr>
<tr>
<td>semctl</td>
<td>Semaphores control</td>
</tr>
<tr>
<td>syscall</td>
<td>System call</td>
</tr>
<tr>
<td>sysctl</td>
<td>Print system control</td>
</tr>
<tr>
<td>umtx_op</td>
<td>Umutex operation</td>
</tr>
</tbody>
</table>

Open Source Used in SD-WAN Cloud OnRamp for Colocation Solution Guide Release 20.1
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(""%s",""%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(""%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(""%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(""%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(""%s",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mount, "mount", "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(""%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, "%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(""%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_prof, "prof", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(""%s",%p,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(%""%s","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(""%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },
/
/*
 * System call numbers.
 */

#define TARGET_FREEBSD_NR_syscall  0
#define TARGET_FREEBSD_NR_exit   1
#define TARGET_FREEBSD_NR_fork   2
#define TARGET_FREEBSD_NR_read   3
#define TARGET_FREEBSD_NR_write  4
#define TARGET_FREEBSD_NR_open   5
#define TARGET_FREEBSD_NR_close  6
#define TARGET_FREEBSD_NR_wait4  7
/* 8 is old creat */
#define TARGET_FREEBSD_NR_link   9
#define TARGET_FREEBSD_NR_unlink 10
/* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir  12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_mknod  14
#define TARGET_FREEBSD_NR_chmod  15
#define TARGET_FREEBSD_NR_chown  16
#define TARGET_FREEBSD_NR_break  17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat  18
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NR_umount 22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recvmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
#define TARGET_FREEBSD_NR_getppid 39
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
#define TARGET_FREEBSD_NR_getgid 47
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
/* 76 is obsolete vhangup */
/* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgid 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
/* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
/* 101 is old send */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_settimeofday 122
#define TARGET_FREEBSD_NR_fchown 123
#define TARGET_FREEBSD_NR_fchmod 124

/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128

/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mknod 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138

/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140

/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148

/* 149 is old quota */
/* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_fssvc 155

/* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_msgsys 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysct 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrcv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
# define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR___getcwd  326
#define TARGET_FREEBSD_NR_sched_setparam  327
#define TARGET_FREEBSD_NR_sched_getparam  328
#define TARGET_FREEBSD_NR_sched_setscheduler  329
#define TARGET_FREEBSD_NR_sched_getscheduler  330
#define TARGET_FREEBSD_NR_sched_yield  331
#define TARGET_FREEBSD_NR_sched_get_priority_max  332
#define TARGET_FREEBSD_NR_sched_get_priority_min  333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace  335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym  337
#define TARGET_FREEBSD_NR_jail  338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask  340
#define TARGET_FREEBSD_NR_sigsuspend  341
#define TARGET_FREEBSD_NR_freebsd4_sigaction  342
#define TARGET_FREEBSD_NR_sigpending  343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn  344
#define TARGET_FREEBSD_NR_sigtimedwait  345
#define TARGET_FREEBSD_NR_sigwaitinfo  346
#define TARGET_FREEBSD_NR___acl_get_file  347
#define TARGET_FREEBSD_NR___acl_set_file  348
#define TARGET_FREEBSD_NR___acl_get_fd  349
#define TARGET_FREEBSD_NR___acl_set_fd  350
#define TARGET_FREEBSD_NR___acl_delete_file  351
#define TARGET_FREEBSD_NR___acl_delete_fd  352
#define TARGET_FREEBSD_NR___acl_aclcheck_file  353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd  354
#define TARGET_FREEBSD_NR_extattrctl  355
#define TARGET_FREEBSD_NR_extattr_set_file  356
#define TARGET_FREEBSD_NR_extattr_get_file  357
#define TARGET_FREEBSD_NR_extattr_delete_file  358
#define TARGET_FREEBSD_NR_aio_waitcomplete  359
#define TARGET_FREEBSD_NR_getresuid  360
#define TARGET_FREEBSD_NR_getresgid  361
#define TARGET_FREEBSD_NR_kqueue  362
#define TARGET_FREEBSD_NR_kevent  363
#define TARGET_FREEBSD_NR_extattr_set_fd  364
#define TARGET_FREEBSD_NR_extattr_get_fd  365
#define TARGET_FREEBSD_NR_extattr_delete_fd  366
#define TARGET_FREEBSD_NR___setugid  367
#define TARGET_FREEBSD_NR_eaccess  368
#define TARGET_FREEBSD_NR_afs3_syscall  369
#define TARGET_FREEBSD_NR_nmount  370
#define TARGET_FREEBSD_NR___mac_get_proc  371
#define TARGET_FREEBSD_NR___mac_get_get  372
#define TARGET_FREEBSD_NR___mac_set_proc  373
#define TARGET_FREEBSD_NR___mac_set_get  374
#define TARGET_FREEBSD_NR_mac_get_file    387
#define TARGET_FREEBSD_NR_mac_set_fd  388
#define TARGET_FREEBSD_NR_mac_set_file    389
#define TARGET_FREEBSD_NR_kenv  390
#define TARGET_FREEBSD_NR_lchflags  391
#define TARGET_FREEBSD_NR_uuidgen    392
#define TARGET_FREEBSD_NR_sendfile  393
#define TARGET_FREEBSD_NR_mac_syscall  394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_statfs    396
#define TARGET_FREEBSD_NR_fstatfs   397
#define TARGET_FREEBSD_NR_fhstatfs  398
#define TARGET_FREEBSD_NR_ksem_close  400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink  406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy  408
#define TARGET_FREEBSD_NR___mac_get_pid    409
#define TARGET_FREEBSD_NR___mac_get_link   410
#define TARGET_FREEBSD_NR___mac_set_link   411
#define TARGET_FREEBSD_NR_extattr_set_link  412
#define TARGET_FREEBSD_NR_extattr_get_link  413
#define TARGET_FREEBSD_NR_extattr_delete_link   414
#define TARGET_FREEBSD_NR___mac_execve  415
#define TARGET_FREEBSD_NR_sigaction 416
#define TARGET_FREEBSD_NR_sigreturn 417
#define TARGET_FREEBSD_NR_getcontext    421
#define TARGET_FREEBSD_NR_setcontext    422
#define TARGET_FREEBSD_NR_swapcontext   423
#define TARGET_FREEBSD_NR_swapoff   424
#define TARGET_FREEBSD_NR___acl_get_link   425
#define TARGET_FREEBSD_NR___acl_set_link   426
#define TARGET_FREEBSD_NR___acl_delete_link  427
#define TARGET_FREEBSD_NR___acl_aclcheck_link   428
#define TARGET_FREEBSD_NR_sigwait    429
#define TARGET_FREEBSD_NR_thr_create 430
#define TARGET_FREEBSD_NR_thr_exit  431
#define TARGET_FREEBSD_NR_thr_self  432
#define TARGET_FREEBSD_NR_thr_kill  433
#define TARGET_FREEBSD_NR___umtx_lock  434
#define TARGET_FREEBSD_NR___umtx_unlock 435
#define TARGET_FREEBSD_NR_jail_attach 436
#define TARGET_FREEBSD_NR_extattr_list_fd  437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_fexecve  492
#define TARGET_FREEBSD_NR_fstatat  493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat  495
#define TARGET_FREEBSD_NR_mkdirat   496
#define TARGET_FREEBSD_NR_mknodat   497
#define TARGET_FREEBSD_NR_openat    499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat  501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat  503
#define TARGET_FREEBSD_NRposix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get  506
#define TARGET_FREEBSD_NR_jail_set  507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom  509
#define TARGET_FREEBSD_NRsem_semct1 510
#define TARGET_FREEBSD_NRmsg_msgct1  511
#define TARGET_FREEBSD_NRshm shmct1  512
#define TARGET_FREEBSD_NRlp lpathconf 513
#define TARGET_FREEBSD_NRCap cap_new 514
#define TARGET_FREEBSD_NRCap getrights  515
#define TARGET_FREEBSD_NRCap enter  516
#define TARGET_FREEBSD_NRCap getmode  517
#define TARGET_FREEBSD_NRPdfork 518
#define TARGET_FREEBSD_NRpdkill  519
#define TARGET_FREEBSD_NRpdgetpid 520
#define TARGET_FREEBSD_NRpselect 522
#define TARGET_FREEBSD_NRgetloginclass 523
#define TARGET_FREEBSD_NRsetloginclass 524
#define TARGET_FREEBSD_NRrctl get racct 525
#define TARGET_FREEBSD_NRrctl get rules 526
#define TARGET_FREEBSD_NRrctl get limits 527
#define TARGET_FREEBSD_NRrctl add rule 528
#define TARGET_FREEBSD_NRrctl remove rule 529
#define TARGET_FREEBSD_NRposix_fallocate 530
#define TARGET_FREEBSD_NRposix_fadvise 531
#define TARGET_FREEBSD_NRMAXSYSSCALL  532

/* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp */

/*
* System call numbers.
*
* created from: OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp
*/
#define TARGET_OPENBSD_NR_ioctl       54
#define TARGET_OPENBSD_NR_reboot      55
#define TARGET_OPENBSD_NR_revoke      56
#define TARGET_OPENBSD_NR_symlink     57
#define TARGET_OPENBSD_NR_readlink    58
#define TARGET_OPENBSD_NR_execve      59
#define TARGET_OPENBSD_NR_umask       60
#define TARGET_OPENBSD_NR_chroot      61
#define TARGET_OPENBSD_NR_vfork       66
#define TARGET_OPENBSD_NR_sbrk        69
#define TARGET_OPENBSD_NR_munmap      73
#define TARGET_OPENBSD_NR_mprotect    74
#define TARGET_OPENBSD_NR_madvise     75
#define TARGET_OPENBSD_NR_munmap      73
#define TARGET_OPENBSD_NR_mprotect    74
#define TARGET_OPENBSD_NR_madvise     75
#define TARGET_OPENBSD_NR_setgroups   80
#define TARGET_OPENBSD_NR_getpgrp     81
#define TARGET_OPENBSD_NR_setpgid     82
#define TARGET_OPENBSD_NR_dup2        90
#define TARGET_OPENBSD_NR_dup2        90
#define TARGET_OPENBSD_NR_fcntl       92
#define TARGET_OPENBSD_NR_fcntl       92
#define TARGET_OPENBSD_NR_select      93
#define TARGET_OPENBSD_NR_fcntl       92
#define TARGET_OPENBSD_NR_fsysync     95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_sendto      133
#define TARGET_OPENBSD_NR_sendto      133
#define TARGET_OPENBSD_NR_bind        104
#define TARGET_OPENBSD_NR_bind        104
#define TARGET_OPENBSD_NR_setsockopt  105
#define TARGET_OPENBSD_NR_setsockopt  105
#define TARGET_OPENBSD_NR_listen      106
#define TARGET_OPENBSD_NR_setsockopt  105
#define TARGET_OPENBSD_NR_settimeofday 116
#define TARGET_OPENBSD_NR_settimeofday 116
#define TARGET_OPENBSD_NR_getrusage   117
#define TARGET_OPENBSD_NR_getrusage   117
#define TARGET_OPENBSD_NR_getsockopt  118
#define TARGET_OPENBSD_NR_getrusage   117
#define TARGET_OPENBSD_NR_readv       120
#define TARGET_OPENBSD_NR_readv       120
#define TARGET_OPENBSD_NR_writev      121
#define TARGET_OPENBSD_NR_writev      121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown       123
#define TARGET_OPENBSD_NR_fchown       123
#define TARGET_OPENBSD_NR_fchmod       124
#define TARGET_OPENBSD_NR_fchmod       124
#define TARGET_OPENBSD_NR_setreuid     126
#define TARGET_OPENBSD_NR_setreuid     126
#define TARGET_OPENBSD_NR_setregid     127
#define TARGET_OPENBSD_NR_setreuid     126
#define TARGET_OPENBSD_NR_rename       128
#define TARGET_OPENBSD_NR_setreuid     126
#define TARGET_OPENBSD_NR_flock       131
#define TARGET_OPENBSD_NR_mkfifo       132
#define TARGET_OPENBSD_NR_mkfifo       132
#define TARGET_OPENBSD_NR_sendto      133
#define TARGET_OPENBSD_NR_sendto      133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segclean 186
#define TARGET_OPENBSD_NR_lfs_segwait 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR__syscall 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NR_truncate 200
#define TARGET_OPENBSD_NR_ftruncate 201
#define TARGET_OPENBSD_NR___sysctl 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfspictrl 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_msgrcv 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_shmdt 230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetuid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeerid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_signalstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR__semctl 295
#define TARGET_OPENBSD_NR__shmctl 296
#define TARGET_OPENBSD_NR__msgctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threxit 302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR__getcwd 304
#define TARGET_OPENBSD_NR_adjfreq 305
#define TARGET_OPENBSD_NR__getfsstat 306
#define TARGET_OPENBSD_NR__readdir 307
#define TARGET_OPENBSD_NR__fstatfs 308
#define TARGET_OPENBSD_NR__fhstatfs 309

/* syscall flags from machine/trap.h */

/* OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */
/*
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 *
 */

#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */

/* $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $      */
/* $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $   */

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*
* @(#)errno.h  8.5 (Berkeley) 1/21/94
*/

```
#define TARGET_EPERM            1               /* Operation not permitted */
#define TARGET_ENOENT           2               /* No such file or directory */
#define TARGET_ESRCH            3               /* No such process */
#define TARGET_EINTR            4               /* Interrupted system call */
#define TARGET_EIO              5               /* Input/output error */
#define TARGET_ENXIO            6               /* Device not configured */
#define TARGET_E2BIG            7               /* Argument list too long */
#define TARGET_ENOEXEC          8               /* Exec format error */
#define TARGET_EBADF            9               /* Bad file descriptor */
#define TARGET_ECHILD           10              /* No child processes */
#define TARGET_EDEADLK          11              /* Resource deadlock avoided */
                  /* 11 was EAGAIN */
#define TARGET_ENOMEM           12              /* Cannot allocate memory */
#define TARGET_EACCES           13              /* Permission denied */
#define TARGET_EFAULT           14              /* Bad address */
#define TARGET_ENOTBLK          15              /* Block device required */
#define TARGET_EBUSY            16              /* Device busy */
#define TARGET_EEXIST           17              /* File exists */
#define TARGET_EXDEV            18              /* Cross-device link */
#define TARGET_ENODEV           19              /* Operation not supported by device */
#define TARGET_ENOTDIR          20              /* Not a directory */
#define TARGET_EISDIR           21              /* Is a directory */
#define TARGET EINVAL            22              /* Invalid argument */
#define TARGET_ENFILE           23              /* Too many open files in system */
#define TARGET_EMFILE           24              /* Too many open files */
#define TARGET_ENOTTY           25              /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY          26              /* Text file busy */
#define TARGET_EFBIG            27              /* File too large */
#define TARGET_ENOSPC           28              /* No space left on device */
#define TARGET_ESPIPE           29              /* Illegal seek */
#define TARGET_EROFS            30              /* Read-only file system */
#define TARGET_EMMLINK          31              /* Too many links */
```
#define TARGET_EPIPE 32 /* Broken pipe */

/* math software */
#define TARGET_EDOM 33 /* Numerical argument out of domain */
#define TARGET_ERANGE 34 /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN 35 /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK EAGAIN /* Operation would block */
#define TARGET_EINPROGRESS 36 /* Operation now in progress */
#define TARGET_EALREADY 37 /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 39 /* Destination address required */
#define TARGET_EMSGSIZE 40 /* Message too long */
#define TARGET_EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 42 /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43 /* Protocol not supported */
#define TARGET_ENOPROTOOPT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45 /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46 /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47 /* Address family not supported by protocol family */
#define TARGET_EADDRNOSUPPORT 48 /* Address already in use */
#define TARGET_EADDNOSUPPORT 49 /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50 /* Network is down */
#define TARGET_ENETUNREACH 51 /* Network is unreachable */
#define TARGET_ENETRESET 52 /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53 /* Software caused connection abort */
#define TARGET_ECONNRESET 54 /* Connection reset by peer */
#define TARGET_ENOBUFS 55 /* No buffer space available */
#define TARGET_EISCONN 56 /* Socket is already connected */
#define TARGET_ENOTCONN 57 /* Socket is not connected */
#define TARGET_ESHUTDOWN 58 /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59 /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60 /* Operation timed out */
#define TARGET_ECONNREFUSED 61 /* Connection refused */

#define TARGET_ELOOP 62 /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63 /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64 /* Host is down */
#define TARGET_EHOSTUNREACH 65 /* No route to host */
#define TARGET_ENOTEMPTY 66 /* Directory not empty */
/* quotas & mush */
#define TARGET_EPROCLIM 67           /* Too many processes */
#define TARGET_EUSERS  68           /* Too many users */
#define TARGET_EDQUOT  69           /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE   70           /* Stale NFS file handle */
#define TARGET_EREMOTE  71           /* Too many levels of remote in path */
#define TARGET_EBADRPC  72           /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73      /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74      /* RPC prog. not avail */
#define TARGET_EPROCUNAVAIL 76      /* Bad procedure for program */
#define TARGET_ENOLCK    77           /* No locks available */
#define TARGET_ENOSYS    78           /* Function not implemented */
#define TARGET_EFTYPE    79           /* Inappropriate file type or format */
#define TARGET_EAUTH     80           /* Authentication error */
#define TARGET_ENEEDEAUTH 81         /* Need authenticator */
#define TARGET_EIPSEC    82           /* IPsec processing failure */
#define TARGET_EILSEQ    83           /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85           /* No medium found */
#define TARGET_EMEDIUMTYPE 86        /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87          /* Conversion overflow */
#define TARGET_ECANCELED  88          /* Operation canceled */
#define TARGET_EIDRM     89           /* Identifier removed */
#define TARGET_ENOMSG    90           /* No message of desired type */
#define TARGET_ENLAST    90           /* Must be equal largest errno */

/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
* System call numbers.
*
* created fromNetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp
*/

#define TARGET_NETBSD_NR_syscall     0
#define TARGET_NETBSD_NR_exit        1
#define TARGET_NETBSD_NR_fork        2
#define TARGET_NETBSD_NR_read       3
#define TARGET_NETBSD_NR_write      4
#define TARGET_NETBSD_NR_open       5
#define TARGET_NETBSD_NR_close      6
#define TARGET_NETBSD_NR_wait4      7
#define TARGET_NETBSD_NR_compat_43_ocreat 8
#define TARGET_NETBSD_NR_link       9
<table>
<thead>
<tr>
<th>Function</th>
<th>Value</th>
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</thead>
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<td>TARGET_NETBSD_NR_unlink</td>
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<td>TARGET_NETBSD_NR_chdir</td>
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<tr>
<td>TARGET_NETBSD_NR_fchdir</td>
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<td>TARGET_NETBSD_NR_mknod</td>
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<td>TARGET_NETBSD_NR_chmod</td>
<td>15</td>
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<td>TARGET_NETBSD_NR_chown</td>
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<tr>
<td>TARGET_NETBSD_NR_break</td>
<td>17</td>
</tr>
<tr>
<td>TARGET_NETBSD_NR_compat_20_getfsstat</td>
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<td>TARGET_NETBSD_NR_compat_43_olseek</td>
<td>19</td>
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<td>TARGET_NETBSD_NR_compat_40_mount</td>
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<tr>
<td>TARGET_NETBSD_NR_unmount</td>
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<td>TARGET_NETBSD_NR_setuid</td>
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<td>TARGET_NETBSD_NR_getuid</td>
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</tr>
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<td>TARGET_NETBSD_NR_ptrace</td>
<td>26</td>
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<td>TARGET_NETBSD_NR_recvmsg</td>
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<td>TARGET_NETBSD_NR_sendmsg</td>
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<td>TARGET_NETBSD_NR_recvfrom</td>
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</tr>
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<td>TARGET_NETBSD_NR_accept</td>
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<td>TARGET_NETBSD_NR_getpeername</td>
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<td>TARGET_NETBSD_NR_getsockname</td>
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<td>TARGET_NETBSD_NR_access</td>
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</tr>
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<td>TARGET_NETBSD_NR_chflags</td>
<td>34</td>
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</tr>
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<td>TARGET_NETBSD_NR_sync</td>
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</tr>
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<td>TARGET_NETBSD_NR_kill</td>
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<td>TARGET_NETBSD_NR_compat_43_stat43</td>
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<td>TARGET_NETBSD_NR_getppid</td>
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</tr>
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<td>TARGET_NETBSD_NR_dup</td>
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<td>TARGET_NETBSD_NR_pipe</td>
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<td>TARGET_NETBSD_NR_getegid</td>
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<td>TARGET_NETBSD_NR_profil</td>
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<td>TARGET_NETBSD_NR_ktrace</td>
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<td>TARGET_NETBSD_NR_compat_13_sigaction13</td>
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<td>TARGET_NETBSD_NR_getgid</td>
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<td>TARGET_NETBSD_NR_compat_13_sigprocmask13</td>
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<tr>
<td>TARGET_NETBSD_NR___getlogin</td>
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<td>TARGET_NETBSD_NR___setlogin</td>
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<td>TARGET_NETBSD_NR_acct</td>
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<td>TARGET_NETBSD_NR_compat_13_sigpending13</td>
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<td>TARGET_NETBSD_NR_NR___getlogin</td>
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<tr>
<td>TARGET_NETBSD_NR_NR_acct</td>
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<tr>
<td>TARGET_NETBSD_NR_NR_compat_13_sigprocmask13</td>
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</tr>
<tr>
<td>TARGET_NETBSD_NR_NR___getlogin</td>
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<td>50</td>
</tr>
<tr>
<td>TARGET_NETBSD_NR_NR_acct</td>
<td>51</td>
</tr>
<tr>
<td>TARGET_NETBSD_NR_NR_compat_13_sigprocmask13</td>
<td>48</td>
</tr>
</tbody>
</table>
#define TARGET_NETBSD_NR_revoke 56
#define TARGET_NETBSD_NR_symlink 57
#define TARGET_NETBSD_NR_readlink 58
#define TARGET_NETBSD_NR_execve 59
#define TARGET_NETBSD_NR_umask 60
#define TARGET_NETBSD_NR_chroot 61
#define TARGET_NETBSD_NR_compat_43_fstat43 62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo 63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize 64
#define TARGET_NETBSD_NR_compat_12_msync 65
#define TARGET_NETBSD_NR_vfork 66
#define TARGET_NETBSD_NR_sbrk 69
#define TARGET_NETBSD_NR_compat_43_ommap 71
#define TARGET_NETBSD_NR_vadvise 72
#define TARGET_NETBSD_NR_munmap 73
#define TARGET_NETBSD_NR_mprotect 74
#define TARGET_NETBSD_NR_madvise 75
#define TARGET_NETBSD_NR_mincore 78
#define TARGET_NETBSD_NR_getgroups 79
#define TARGET_NETBSD_NR_setgroups 80
#define TARGET_NETBSD_NR_getpgrp 81
#define TARGET_NETBSD_NR_setpgid 82
#define TARGET_NETBSD_NR_setitimer 83
#define TARGET_NETBSD_NR_compat_43_owait 84
#define TARGET_NETBSD_NR_compat_12_oswapon 85
#define TARGET_NETBSD_NR_getitimer 86
#define TARGET_NETBSD_NR_compat_43_ogethostname 87
#define TARGET_NETBSD_NR_compat_43_osethostname 88
#define TARGET_NETBSD_NR_compat_43_ogetdtablesize 89
#define TARGET_NETBSD_NR_dup2 90
#define TARGET_NETBSD_NR_fcntl 92
#define TARGET_NETBSD_NR_select 93
#define TARGET_NETBSD_NR_fsync 95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket 97
#define TARGET_NETBSD_NR_connect 98
#define TARGET_NETBSD_NR_compat_43_oaccept 99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_osend 101
#define TARGET_NETBSD_NR_compat_43_osrecv 102
#define TARGET_NETBSD_NR_compat_13_sigreturn13 103
#define TARGET_NETBSD_NR_bind 104
#define TARGET_NETBSD_NR_setsockopt 105
#define TARGET_NETBSD_NR_listen 106
#define TARGET_NETBSD_NR_compat_43_osigvec 108
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask 110
#define TARGET_NETBSD_NR_compat_13_sigsuspend13
#define TARGET_NETBSD_NR_compat_43_osigstack
#define TARGET_NETBSD_NR_compat_43_orecvmsg
#define TARGET_NETBSD_NR_compat_43_osendmsg
#define TARGET_NETBSD_NR_gettimeofday
#define TARGET_NETBSD_NR_getrusage
#define TARGET_NETBSD_NR_getsockopt
#define TARGET_NETBSD_NR_readv
#define TARGET_NETBSD_NR_writev
#define TARGET_NETBSD_NR_settimeofday
#define TARGET_NETBSD_NR_fchown
#define TARGET_NETBSD_NR_fchmod
#define TARGET_NETBSD_NR_compat_43_orecvfrom
#define TARGET_NETBSD_NR_setreuid
#define TARGET_NETBSD_NR_setregid
#define TARGET_NETBSD_NR_rename
#define TARGET_NETBSD_NR_compat_43_otruncate
#define TARGET_NETBSD_NR_compat_43_oftruncate
#define TARGET_NETBSD_NR_flock
#define TARGET_NETBSD_NR_mkfifo
#define TARGET_NETBSD_NR_sendto
#define TARGET_NETBSD_NR_shutdown
#define TARGET_NETBSD_NR_socketpair
#define TARGET_NETBSD_NR_mkdir
#define TARGET_NETBSD_NR_rmdir
#define TARGET_NETBSD_NR_utimes
#define TARGET_NETBSD_NR_adjtime
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#define TARGET_NETBSD_NR_compat_43_osethostid
#define TARGET_NETBSD_NR_compat_43_ogetrlimit
#define TARGET_NETBSD_NR_compat_43_osetrlimit
#define TARGET_NETBSD_NR_compat_43_okillpg
#define TARGET_NETBSD_NR_setsid
#define TARGET_NETBSD_NR_quotactl
#define TARGET_NETBSD_NR_compat_43_oquota
#define TARGET_NETBSD_NR_compat_43_ogetsockname
#define TARGET_NETBSD_NR_sysarch
#define TARGET_NETBSD_NR_compat_10_osemsys
#define TARGET_NETBSD_NR_compat_10_omsgsys
#define TARGET_NETBSD_NR_compat_20_statfs
#define TARGET_NETBSD_NR_compat_20_fstatfs
#define TARGET_NETBSD_NR_compat_30_getfh
#define TARGET_NETBSD_NR_compat_09_ogetdomainname
#define TARGET_NETBSD_NR_compat_09_osetdomainname
#define TARGET_NETBSD_NR.compat_09_ouname
#define TARGET_NETBSD_NR_sysarch
#define TARGET_NETBSD_NRCompat_10_osemsys
#define TARGET_NETBSD_NRCompat_10_omsgsys
#define TARGET_NETBSD_NR_compat_10_oshmsys 171
#define TARGET_NETBSD_NR_pread 173
#define TARGET_NETBSD_NR_pwrite 174
#define TARGET_NETBSD_NR_compat_30_ntp_gettime 175
#define TARGET_NETBSD_NR_nmp_adjtime 176
#define TARGET_NETBSD_NR_setgid 181
#define TARGET_NETBSD_NR_setegid 182
#define TARGET_NETBSD_NR_seteuid 183
#define TARGET_NETBSD_NR_lfs_bmapv 184
#define TARGET_NETBSD_NR_lfs_markv 185
#define TARGET_NETBSD_NR_lfs_segeclean 186
#define TARGET_NETBSD_NR_lfs_segewait 187
#define TARGET_NETBSD_NR_compat_12_stat12 188
#define TARGET_NETBSD_NR_compat_12_fstat12 189
#define TARGET_NETBSD_NR_compat_12_lstat12 190
#define TARGET_NETBSD_NR_pathconf 191
#define TARGET_NETBSD_NR_fpathconf 192
#define TARGET_NETBSD_NR_getrlimit 194
#define TARGET_NETBSD_NR_setrlimit 195
#define TARGET_NETBSD_NR_compat_12_getdirentries 196
#define TARGET_NETBSD_NR_mmap 197
#define TARGET_NETBSD_NR___syscall 198
#define TARGET_NETBSD_NR___syscall 199
#define TARGET_NETBSD_NR_lseek 200
#define TARGET_NETBSD_NR_ftruncate 201
#define TARGET_NETBSD_NR___sysctl 202
#define TARGET_NETBSD_NR_mlock 203
#define TARGET_NETBSD_NR_munlock 204
#define TARGET_NETBSD_NR_undelete 205
#define TARGET_NETBSD_NR_futimes 206
#define TARGET_NETBSD_NR_getpgid 207
#define TARGET_NETBSD_NR_reboot 208
#define TARGET_NETBSD_NR_poll 209
#define TARGET_NETBSD_NR_compat_14___semctl 220
#define TARGET_NETBSD_NR_semget 221
#define TARGET_NETBSD_NR_semop 222
#define TARGET_NETBSD_NR_semconfig 223
#define TARGET_NETBSD_NR_compat_14_msgctl 224
#define TARGET_NETBSD_NR_mesgget 225
#define TARGET_NETBSD_NR_msgsnd 226
#define TARGET_NETBSD_NR_msgrcv 227
#define TARGET_NETBSD_NR_shmat 228
#define TARGET_NETBSD_NR_compat_14_shmctl 229
#define TARGET_NETBSD_NR_shmdt 230
#define TARGET_NETBSD_NR_shmget 231
#define TARGET_NETBSD_NR_clock_gettime 232
#define TARGET_NETBSD_NR_clock_settime 233
#define TARGET_NETBSD_NR_clock_getres 234
#define TARGET_NETBSD_NR_timer_create 235
#define TARGET_NETBSD_NR_timer_delete 236
#define TARGET_NETBSD_NR_timer_settime 237
#define TARGET_NETBSD_NR_timer_gettime 238
#define TARGET_NETBSD_NR_timer_getoverrun 239
#define TARGET_NETBSD_NR_nanosleep 240
#define TARGET_NETBSD_NR_fdatasync 241
#define TARGET_NETBSD_NR_mlockall 242
#define TARGET_NETBSD_NR_munlockall 243
#define TARGET_NETBSD_NR___sigtimedwait 244
#define TARGET_NETBSD_NR_modctl 246
#define TARGET_NETBSD_NR__ksem_init 247
#define TARGET_NETBSD_NR__ksem_open 248
#define TARGET_NETBSD_NR__ksem_unlink 249
#define TARGET_NETBSD_NR__ksem_close 250
#define TARGET_NETBSD_NR__ksem_post 251
#define TARGET_NETBSD_NR__ksem_wait 252
#define TARGET_NETBSD_NR__ksem_trywait 253
#define TARGET_NETBSD_NR__ksem_getvalue 254
#define TARGET_NETBSD_NR__ksem_destroy 255
#define TARGET_NETBSD_NR_mq_open 257
#define TARGET_NETBSD_NR_mq_close 258
#define TARGET_NETBSD_NR_mq_unlink 259
#define TARGET_NETBSD_NR_mq_getattr 260
#define TARGET_NETBSD_NR_mq_setattr 261
#define TARGET_NETBSD_NR_mq_notify 262
#define TARGET_NETBSD_NR_mq_send 263
#define TARGET_NETBSD_NR_mq_receive 264
#define TARGET_NETBSD_NR_mq_timedsend 265
#define TARGET_NETBSD_NR_mq_timedreceive 266
#define TARGET_NETBSD_NR__posix_rename 270
#define TARGET_NETBSD_NR_swapctl 271
#define TARGET_NETBSD_NRCompat_30_getdents 272
#define TARGET_NETBSD_NR_minherit 273
#define TARGET_NETBSD_NR_lchmod 274
#define TARGET_NETBSD_NR_lchown 275
#define TARGET_NETBSD_NR_lutimes 276
#define TARGET_NETBSD_NR___msync13 277
#define TARGET_NETBSD_NRCompat_30__stat13 278
#define TARGET_NETBSD_NRCompat_30__fstat13 279
#define TARGET_NETBSD_NRCompat_30__lstat13 280
#define TARGET_NETBSD_NR___sigaltstack14 281
#define TARGET_NETBSD_NR___vfork14 282
#define TARGET_NETBSD_NR___posix_chown 283
#define TARGET_NETBSD_NR___posix_fchown 284
#define TARGET_NETBSD_NR___posix_lchown 285
#define TARGET_NETBSD_NR_getsid 286
#define TARGET_NETBSD_NR___clone 287
#define TARGET_NETBSD_NR_fktrace 288
#define TARGET_NETBSD_NR_preadv 289
#define TARGET_NETBSD_NR_pwritev 290
#define TARGET_NETBSD_NR_compat_16___sigaction14 291
#define TARGET_NETBSD_NR___sigpending14 292
#define TARGET_NETBSD_NR___sigprocmask14 293
#define TARGET_NETBSD_NR___sigsuspend14 294
#define TARGET_NETBSD_NR_compat_16___sigreturn14 295
#define TARGET_NETBSD_NR___getcwd 296
#define TARGET_NETBSD_NR_fchroot 297
#define TARGET_NETBSD_NR_compat_30_fhopen 298
#define TARGET_NETBSD_NR_compat_30_fhstat 299
#define TARGET_NETBSD_NR_compat_20_fhstatfs 300
#define TARGET_NETBSD_NR_____semctl13 301
#define TARGET_NETBSD_NR___msgctl13 302
#define TARGET_NETBSD_NR___shmctl13 303
#define TARGET_NETBSD_NR_lchflags 304
#define TARGET_NETBSD_NR_issetugid 305
#define TARGET_NETBSD_NR_utrace 306
#define TARGET_NETBSD_NR_getcontext 307
#define TARGET_NETBSD_NR_setcontext 308
#define TARGET_NETBSD_NR__lwp_create 309
#define TARGET_NETBSD_NR__lwp_exit 310
#define TARGET_NETBSD_NR__lwp_self 311
#define TARGET_NETBSD_NR__lwp_wait 312
#define TARGET_NETBSD_NR__lwp_suspend 313
#define TARGET_NETBSD_NR__lwp_continue 314
#define TARGET_NETBSD_NR__lwp_wakeup 315
#define TARGET_NETBSD_NR__lwp_getprivate 316
#define TARGET_NETBSD_NR__lwp_setprivate 317
#define TARGET_NETBSD_NR__lwp_kill 318
#define TARGET_NETBSD_NR__lwp_detach 319
#define TARGET_NETBSD_NR__lwp_park 320
#define TARGET_NETBSD_NR__lwp_unpark 321
#define TARGET_NETBSD_NR__lwp_unpark_all 322
#define TARGET_NETBSD_NR__lwp_setname 323
#define TARGET_NETBSD_NR__lwp_getname 324
#define TARGET_NETBSD_NR__lwp_ctl 325
#define TARGET_NETBSD_NR_sa_register 330
#define TARGET_NETBSD_NR_sa_stacks 331
#define TARGET_NETBSD_NR_sa_enable 332
#define TARGET_NETBSD_NR_sa_setconcurrency 333
#define TARGET_NETBSD_NR_sa_yield 334
#define TARGET_NETBSD_NR_sa_preempt 335
#define TARGET_NETBSD_NR_sa_unblockyield 336
#define TARGET_NETBSD_NR___sigaction_sigtramp 340
#define TARGET_NETBSD_NR_pmc_get_info 341
#define TARGET_NETBSD_NR_pmc_control 342
#define TARGET_NETBSD_NR_rasctl      343
#define TARGET_NETBSD_NR_kqueue      344
#define TARGET_NETBSD_NR_kevent      345
#define TARGET_NETBSD_NR__sched_setparam 346
#define TARGET_NETBSD_NR__sched_getparam 347
#define TARGET_NETBSD_NR__sched_setaffinity 348
#define TARGET_NETBSD_NR__sched_getaffinity 349
#define TARGET_NETBSD_NR_sched_yield 350
#define TARGET_NETBSD_NR_fsync_range 354
#define TARGET_NETBSD_NR_uuidgen     355
#define TARGET_NETBSD_NR_getvfsstat  356
#define TARGET_NETBSD_NR_statvfs1   357
#define TARGET_NETBSD_NR_compat_30_fhstatvfs1 358
#define TARGET_NETBSD_NR_compat_30_fhstatvfs1 359
#define TARGET_NETBSD_NR_extattrctl 360
#define TARGET_NETBSD_NR_extattr_set_file 361
#define TARGET_NETBSD_NR_extattr_get_file 362
#define TARGET_NETBSD_NR_extattr_delete_file 363
#define TARGET_NETBSD_NR_extattr_set_fd 364
#define TARGET_NETBSD_NR_extattr_get_fd 365
#define TARGET_NETBSD_NR_extattr_delete_fd 366
#define TARGET_NETBSD_NR_extattr_set_link 367
#define TARGET_NETBSD_NR_extattr_get_link 368
#define TARGET_NETBSD_NR_extattr_delete_link 369
#define TARGET_NETBSD_NR_extattr_list_fd 370
#define TARGET_NETBSD_NR_extattr_list_file 371
#define TARGET_NETBSD_NR_extattr_list_link 372
#define TARGET_NETBSD_NR_pselect     373
#define TARGET_NETBSD_NR_pollts      374
#define TARGET_NETBSD_NR_setxattr    375
#define TARGET_NETBSD_NR_lsetxattr   376
#define TARGET_NETBSD_NR_fsetxattr   377
#define TARGET_NETBSD_NR_getxattr    378
#define TARGET_NETBSD_NR_lgetxattr   379
#define TARGET_NETBSD_NR_fgetxattr   380
#define TARGET_NETBSD_NR_listxattr   381
#define TARGET_NETBSD_NR_llistxattr  382
#define TARGET_NETBSD_NR_flistxattr  383
#define TARGET_NETBSD_NR_removexattr 384
#define TARGET_NETBSD_NR_lremovexattr 385
#define TARGET_NETBSD_NR_fremovexattr 386
#define TARGET_NETBSD_NR__stat30    387
#define TARGET_NETBSD_NR___fstat30   388
#define TARGET_NETBSD_NR___lstat30   389
#define TARGET_NETBSD_NR___getdents30        390
#define TARGET_NETBSD_NR_compat_30___fhstat30        392
#define TARGET_NETBSD_NR___ntp_gettime30     393
#define TARGET_NETBSD_NR___socket30 394
/*-
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 *
 * @(#)mman.h      8.2 (Berkeley) 1/9/95
#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080  /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100  /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400  /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800  /* page to but do not sync underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7


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 *
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 */
#define TARGET_NETBSD_MAP_INHERIT 0x0080  /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */

#define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */
/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

*/

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*
* @(#)mman.h 8.1 (Berkeley) 6/2/93
*/

#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7
#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7
// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

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A. HISTORY OF THE SOFTWARE

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

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<th>Owner</th>
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Footnotes:

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

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

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

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ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd ..  ; done; pwd)
endif

include $(TOP)/make.rules

SUBDIRS=
ifeq ($($SNK_BIOSEMU_APPS), 1)
SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)

all :
for subdir in $(SUBDIRS) ; do $(MAKE) -C $$(dir) || exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $${subdir} $@ ; done
# *****************************************************************************
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# *
# * Contributors:
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# *****************************************************************************/

ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd ..  ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

ROOTDIR ?= ../..

LDFLAGS=
ASFLAGS= -I/include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS= -UDEBUG -m64 -I -I/include/x86emu \
    -Is(TOP)/clients/net-snk/include -Is(ROOTDIR)/include \
    -Is(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \
    -ffreestanding -Wall -Wno-unused

X86EMU_OBJS= debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S
$(CC) $(ASFLAGS) -c -o $@  $^

%.o: %.c
$(CC) $(CFLAGS) -c -o $@ $^

all: libx86emu.a

libx86emu.a: $(X86EMU_OBJS)
$(AR) -rc $@ $^$
$(RANLIB) $@

clean:
$(RM) *.o *.i *.s libx86emu.a

distclean: clean
#!/bin/bash

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

if [ ! -x $SVN ]; then
echo "subversion executable not found!"
exit -1
fi
if [ ! -x $PATCH ]; then
echo "patch executable not found!"
exit -1
fi
if [ ! -r $DIFF_FILE ]; then
echo "diff file $DIFF_FILE not found!"
exit -1
fi

# download the x86emu sources from LinuxBIOS subversion

#revision known to work...
REV=496

echo "Checking out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV

echo "Copying files..."

mkdir -p include/x86emu
cp -v x86emu/x86emu/*.c .
cp -v x86emu/x86emu/*.h include/x86emu
```bash
cp -v x86emu/include/x86emu/*.h include/x86emu

echo "Removing checkedout subversion director..."

rm -rf x86emu

echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
    if (DEBUG_TRACE()) {
-        x86emu_dump_regs();
+        if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+            x86emu_dump_xregs();
+        } else {
+            x86emu_dump_regs();
+        }
    }
    if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
        printf("%04x:%04x ", M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
        for (i=0; i< M.x86.enc_pos; i++) {
            sprintf(buf1+2*i, "%02x", fetch_data_byte_abs(s,0+i));
        }
-        printk("%-20s",buf1);
+        printk("%-20s ",buf1);
    }

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
```
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000
+++ ops2.c 20 Mar 2008 15:48:34 -0000
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", target);
    TRACE_AND_STEP();
- if (cond)
+ if (cond) {
     M.x86.R_IP = (u16)target;
+    jmp_trace(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+    }
+    DECODE_CLEAR_SEGOVR();
+    END_OF_INSTR();
+}
+/
+****************************************************************************/
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+   // perform the byte swap
+   s32 temp = reg;
+   reg = (temp & 0xFF000000) >> 24;
+   reg |= (temp & 0xFF0000) >> 8;
+   reg |= (temp & 0xFF00) << 8;
+   reg |= (temp & 0xFF) << 24;
+   return reg;
+}
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+   /* byte swap 32 bit register */
+   START_OF_INSTR();
+   DECODE_PRINTF("BSWAP\t");
+   switch (op2) {
+     case 0xc8:
+       DECODE_PRINTF("EAX\n");
+       M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+       break;
+     case 0xc9:
+       DECODE_PRINTF("ECX\n");
+       M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+       break;
+     case 0xca:
+       DECODE_PRINTF("EDX\n");
+       M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+ break;
+ case 0xcb:
+   DECODE_PRINTF("EBX\n");
+   M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+   break;
+ case 0xcc:
+   DECODE_PRINTF("ESP\n");
+   M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+   break;
+ case 0xcd:
+   DECODE_PRINTF("EBP\n");
+   M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+   break;
+ case 0xce:
+   DECODE_PRINTF("ESI\n");
+   M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+   break;
+ case 0xcf:
+   DECODE_PRINTF("EDI\n");
+   M.x86.R EDI = x86emu_bswap(M.x86.R EDI);
+   break;
+ }
+ TRACE_AND_STEP();
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
}
/* 0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops.c 20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
imm = (s8)fetch_byte_imm();
DECODE_PRINTF2("PUSH\t%d\n", imm);
TRACE_AND_STEP();
-    push_word(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
+    } else {
+        push_word(imm);
+    }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
target = (u16)(M.x86.R_IP + (s16)offset);
DECODE_PRINTF2("%x\n", target);
TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
M.x86.R_IP = target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+    }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    count = M.x86.R_CX;
+    /* move them until (E)CX is ZERO. */
+    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX = 0;
+M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--) {
store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
M.x86.R_SI += inc;
M.x86.R_DI += inc;
+
    if (M.x86.intr & INTR_HALT)
    +        break;
    }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2559,9 +2569,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    count = M.x86.R_CX;
+    /* move them until (E)CX is ZERO. */
+    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2574,6 +2586,8 @@
    }
M.x86.R_SI += inc;
M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALT)
+        break;
    }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2598,16 +2612,21 @@
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val1 = fetch_data_byte(M.x86.R_SI);
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(val1, val2);
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+        else
+            M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
M.x86.R_DI += inc;
if ((M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0)) break;
if ((M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF)) break;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
  /* REPE */
-  /* move them until CX is ZERO. */
-  while (M.x86.R_CX != 0) {
+  /* move them until (E)CX is ZERO. */
+  while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
      val1 = fetch_data_long(M.x86.R_SI);
      val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
    }
  }
-  M.x86.R_CX -= 1;
+  if (M.x86.mode & SYSMODE_32BIT_REP)
+      M.x86.R_ECX -= 1;
+  else
+      M.x86.R_CX -= 1;
  M.x86.R_SI += inc;
  M.x86.R_DI += inc;
  if ((M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0)) break;
  if ((M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF)) break;
+  if (M.x86.intr & INTR_HALTED)
+    break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
  /* dont care whether REPE or REPNE */
-  /* move them until CX is ZERO. */
-  while (M.x86.R_CX != 0) {
+  /* move them until (E)CX is ZERO. */
+  while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-    M.x86.R_CX -= 1;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+      M.x86.R_ECX -= 1;
+    else
+      M.x86.R_CX -= 1;
  }
  M.x86.R_SI += inc;
  M.x86.R_DI += inc;
  if ((M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0)) break;
  if ((M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF)) break;
+  if (M.x86.intr & INTR_HALTED)
+    break;
}
+    M.x86.R_ECX -= 1;
+  else
+    M.x86.R_CX -= 1;
+  M.x86.R_DI += inc;
+  if (M.x86.intr & INTR_HALTED)
+    break;
+  }
+  M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
+} else {
@@ -2783,9 +2812,11 @@
+    count = 1;
+    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
+      /* dont care whether REPE or REPNE */
+      -/* move them until CX is ZERO. */
-      count = M.x86.R_CX;
+      /* move them until (E)CX is ZERO. */
+      count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
+      M.x86.R_CX = 0;
+    } else {
+      M.x86.R_ECX = 0;
+      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
+    }
+    while (count--) {
@@ -2784,6 +2813,8 @@
      store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
+    } else {
+      M.x86.R_DI += inc;
+      if (M.x86.intr & INTR_HALTED)
+        break;
+    }
+  }
+  DECODE_CLEAR_SEGOVR();
+  END_OF_INSTR();
@@ -2817,11 +2850,16 @@
+    inc = 1;
+    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
+      /* dont care whether REPE or REPNE */
+      /* move them until CX is ZERO. */
+      while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+          M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
+          -M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+          else
+            M.x86.R_CX -= 1;
+          M.x86.R_SI += inc;
+          if (M.x86.intr & INTR_HALTED)
break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2859,9 +2897,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- count = M.x86.R_CX;
+ /* move them until (E)CX is ZERO. */
+ count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
 + M.x86.R_ECX = 0;
 M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--)
@@ -2871,6 +2911,8 @@
 M.x86.R_AX = fetch_data_word(M.x86.R_SI);
 }
M.x86.R_SI += inc;
+ if (M.x86.intr & INTR_HALTED)
 + break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2894,26 +2936,36 @@
icc = 1;
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
 /* REPE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
 cmp_byte(M.x86.R_AL, val2);
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
 M.x86.R_DI += inc;
 if (ACCESS_FLAG(F_ZF) == 0)
 break;
+ if (M.x86.intr & INTR_HALTED)
 + break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
        - M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX -= 1;
        + else
            M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF))
            break;          /* zero flag set means equal */
        + if (M.x86.intr & INTR_HALTED)
            break;
        + break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
    @@ -2951,8 +3003,8 @@
TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
        - /* move them until CX is ZERO. */
        - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_long(M.x86.R_EAX, val);
                @@ -2960,16 +3012,21 @@
                val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_word(M.x86.R_AX, (u16)val);
            }
            M.x86.R_CX -= 1;
            + if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            + else
                M.x86.R_CX -= 1;
                M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
            + if (M.x86.intr & INTR_HALTED)
                break;
            + break;
        }
    }
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX, val);
        }
    }
    - M.x86.R_CX -= 1;
    + if (M.x86.mode & SYSMODE_32BIT_REP)
    +    M.x86.R_ECX -= 1;
    + else
    +    M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF))
        break;    /* zero flag set means equal */
    + if (M.x86.intr & INTR_HALTED)
    +    break;
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
    @ @ -2977,10 +3034,15 @@
    val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_word(M.x86.R_AX, (u16)val);
}
- M.x86.R_CX .= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX .= 1;
+ else
+    M.x86.R_CX .= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF))
    break;    /* zero flag set means equal */
+ if (M.x86.intr & INTR_HALTED)
+    break;
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else {
    @ @ -3238,9 +3300,9 @@
    DECODE_PRINTF("RET\n");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
    @ @ -3254,9 +3316,9 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
DECODE_PRINTF("RETF\n");
imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}@ @ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
    M.x86.R_IP = ip;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF))      /* CX != 0 and !ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and !ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}@ @ -4041,8 +4106,11 @@
    M.x86.R_IP = ip;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF))      /* CX != 0 and ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+ else
+    M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
    ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4062,8 +4130,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0)
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
        M.x86.R_IP = ip;
        DECODE_CLEAR_SEGOVR();
        END_OF_INSTR();
@@ -4085,8 +4156,10 @@
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-    if (M.x86.R_CX == 0)
+    if (M.x86.R_CX == 0) {
+        M.x86.R_IP = target;
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}@@ -4213,6 +4286,7 @@
    ip = (s16)fetch_word_imm();
    ip += (s16)M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x: ", cs);
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = ip;
M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@ offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
TRACE_AND_STEP();
M.x86.R_IP = target;
DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
DECODE_PRINTF("REPNE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
DECODE_PRINTF("REPE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
break;
case 4: /* jmp word ptr ... */
destval = fetch_data_word(destoffset);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
break;
case 5: /* jmp far ptr ... */
destval = fetch_data_word(destoffset);
destval2 = fetch_data_word(destoffset + 2);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
M.x86.R_CS = destval2;

Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
void imul_long_direct(u32 *res_lo, u32* res_hi, u32 d, u32 s)
{
    #ifdef __HAS_LONG_LONG__
    -    s64 res = (s64)d * (s64)s;
    +    s64 res = (s64)(s32)d * (s64)(s32)s;
    #endif
    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
    @ @ -2013.7 +2013.7 @@
}

void mul_long(u32 s)
{
    #ifdef __HAS_LONG_LONG__
    -    u64 res = (u32)M.x86.R_EAX * (u32)s;
    +    u64 res = (u64)M.x86.R_EAX * s;
    #endif
    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
    @ @ -2312.16 +2312.15 @@
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    -    /* in until CX is ZERO. */
    -    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
    +    /* in until (E)CX is ZERO. */
    +    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
    M.x86.R_ECX : M.x86.R_CX);
    -
    while (count--) {
        single_in(size);
        M.x86.R_DI += inc;
    }
    M.x86.R_CX = 0;
    -    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    +    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    } else (M.x86.mode &=- (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    @ @ -2355.15 +2354.15 @@
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    -    /* out until CX is ZERO. */
    -    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
    +    /* out until (E)CX is ZERO. */
    +    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?

M.x86.R_ECX : M.x86.R_CX;

while (count--) {
    single_out(size);
    M.x86.R_SI += inc;
}
M.x86.R_CX = 0;
-    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
 #include <x86emu/regs.h>
 #include "debug.h"
 #include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#elif IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
 { DB(if (DEBUG_IO_TRACE())
 printk("inb %#04x \n", addr);
 -return inb(addr);
+return 0;
 }

 /* ******************************************
 @@ -235,7 +230,7 @@
 { DB(if (DEBUG_IO_TRACE())
 printk("inw %#04x \n", addr);
 -return inw(addr);
+return 0;
 }

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@@ -250,7 +245,7 @@
    {
    DB(if (DEBUG_IO_TRACE())
    printk("inl %#04x \n", addr);
+    return 0;
    }

/**************************************************************************/
@@ -264,7 +259,6 @@
    {
    DB(if (DEBUG_IO_TRACE())
    printk("outb %#02x \n", addr);
-    outb(val, addr);
    return;
    }

@@ -279,7 +273,6 @@
    {
    DB(if (DEBUG_IO_TRACE())
    printk("outw %#04x \n", addr);
-    outw(val, addr);
    return;
    }

@@ -295,7 +288,6 @@
    {
    DB(if (DEBUG_IO_TRACE())
    printk("outl %#08x \n", addr);
-    outl(val, addr);
    return;
    }

@@ -405,6 +397,6 @@
     
 void X86EMU_setMemBase(void *base, size_t size)
    {
-    M.mem_base = (int) base;
+    M.mem_base = (unsigned long) base;
    M.mem_size = size;
    }
--- include/x86emu/debug.h7 Sep 2007 10:01:21 -00001.1
+++ include/x86emu/debug.h20 Mar 2008 15:25:27 -00001.4
@@ -40,8 +40,6 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H
-//#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/
/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
#define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
#define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
#define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+#define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
+#define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
#define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
#define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
#define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
#define DEBUG_SYSINT()        0
#define DEBUG_TRACECALL()     0
#define DEBUG_TRACECALLREGS() 0
+#define DEBUG_TRACEJMP()       0
+#define DEBUG_TRACEJMPREGS()   0
#define DEBUG_SYS()           0
#define DEBUG_MEM_TRACE()     0
#define DEBUG_IO_TRACE()      0
@@ -169,14 +171,20 @@
   if (DEBUG_TRACEJMPREGS())
   +   if (DEBUG_TRACEJMP())
   +      x86emu_dump_regs();
   +      printk("%04x:%04x: RET %s %04x:%04x\n", u, v, s, w, x);
   else
   # define CALL_TRACE(u,v,w,x,s)
   # define RETURN_TRACE(n,u,v)
   \n   x86emu_dump_regs();
   \n   if (DEBUG_TRACECALL())
   \n   printk("%04x:%04x: CALL %s %04x:%04x\n", u, v, s, w, x);
   +# define RETURN_TRACE(n,u,v)
   + if (DEBUG_TRACECALLREGS())
   +   x86emu_dump_regs();
   +   printk("%04x:%04x: RET %s %04x:%04x\n", u, v, s, w, x);
   +# define JMP_TRACE(u,v,w,x,s)
   +   if (DEBUG_TRACEJMPREGS())
   +      x86emu_dump_regs();
   +      printk("%04x:%04x: JMP %s %04x:%04x\n", u, v, s, w, x);
   else
   # define CALL_TRACE(u,v,w,x,s)
   -# define RETURN_TRACE(n,u,v)
+\# define RETURN_TRACE(u,v,w,x,s)
+\# define JMP_TRACE(u,v,w,x,s)
\#endif

\#ifdef DEBUG
Index: include/x86emu/regs.h

===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
  --- include/x86emu/regs.h7 Sep 2007 10:01:21 -0000.1
+++ include/x86emu/regs.h15 Jan 2008 13:46:40 -0000.4
 @ @ -231.6 +231.9 @@
#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA 0x00000200
#define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+\#define SYSMODE_32BIT_REP 0x00000800
\#define SYSMODE_INTR_PENDING 0x10000000
\#define SYSMODE_EXTRN_INTR 0x20000000
\#define SYSMODE_HALTED 0x40000000
@@ -250,7 +253,8 @@
SYSMODE_SEGOVR_GS | \ SYSMODE_PREFIX_DATA |
SYSMODE_SEGOVR_SS | \ SYSMODE_PREFIX_ADDR)
+ SYSEMODE_PREFIX_ADDR | \
+ SYSEMODE_32BIT_REP)
\#define INTR_SYNCH 0x1
\#define INTR_ASYNCH 0x2
@@ -274,9 +278,9 @@
  */
    u32 mode;
    volatile int intr; /* mask of pending interrupts */
    \-int debug;
+  volatile int debug;
\#ifdef DEBUG
\-int check;
+  int check;
    u16 saved_ip;
    u16 saved_cs;
    int enc_pos;
Index: include/x86emu/x86emu.h

===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h7 Sep 2007 10:01:21 -00001.1
+++ include/x86emu/x86emu.h19 Oct 2007 08:42:15 -00001.3
@@ -47,6 +47,7 @@
#include <console.h>
define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
define printk printf
#endif
#endif /* __X86EMU_X86EMU_H */
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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.

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

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

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

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

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

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-- Wolfgang Denk

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History
-------

Before (and including) argparse 1.1, the argparse package was licensed under
Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted
due to license compatibility issues between Apache License 2.0 and GNU GPL v2.
The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

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From c8b73d0f85b2435aabbdec92452cb7a0446b1d36 Mon Sep 17 00:00:00 2001
From: Kevin Wolf <kwolf@redhat.com>
Date: Mon, 3 Sep 2018 09:41:40 +0200
Subject: [PATCH 27/29] qemu-img: fix regression copying secrets during convert
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

RH-Author: Kevin Wolf <kwolf@redhat.com>
Message-id: <20180903094140.12988-2-kwolf@redhat.com>
Patchwork-id: 82031
O-Subject: [RHV-7.6 qemu-kvm-rhev PATCH 1/1] qemu-img: fix regression copying secrets during convert
Bugzilla: 1575578
RH-Acked-by: Max Reitz <mreitz@redhat.com>
RH-Acked-by: Daniel P. Berrange <berrange@redhat.com>
RH-Acked-by: Miroslav Rezanina <mrezanin@redhat.com>

From: Daniel P. Berrang <berrange@redhat.com>

When the convert command is creating an output file that needs secrets, we need to ensure those secrets are passed to both the blk_new_open and bdrv_create API calls.

This is done by qemu-img extracting all opts matching the name suffix "key-secret". Unfortunately the code doing this was run after the call to bdrv_create(), which meant the QemuOpts it was extracting secrets from was now empty.

Previously this worked by luks as a bug meant the "key-secret" parameters were not purged from the QemuOpts. This bug was fixed in

commit b76b4f604521e59f857d6177bc55f6f2e41fd392
Author: Kevin Wolf <kwolf@redhat.com>
Date:   Thu Jan 11 16:18:08 2018 +0100

qcow2: Use visitor for options in qcow2_create()

Exposing the latent bug in qemu-img. This fix simply moves the copying of secrets to before the bdrv_create() call.

Cc: qemu-stable@nongnu.org
Signed-off-by: Daniel P. Berrang <berrange@redhat.com>
Signed-off-by: Kevin Wolf <kwolf@redhat.com>
(cherry picked from commit 8d65a3ccfd5db7f0436e095cd952f5d0c3a873ba)
Signed-off-by: Kevin Wolf <kwolf@redhat.com>
Signed-off-by: Miroslav Rezanina <mrezanin@redhat.com>
---
qemu-img.c | 32 ++++++++++++++++++++++++++
1 file changed, 15 insertions(+), 17 deletions(-)

diff --git a/qemu-img.c b/qemu-img.c
index f42750a..fa0cbd7 100644
--- a/qemu-img.c
+++ b/qemu-img.c
@@ -348,21 +348,6 @@ static int img_add_key_secrets(void *opaque,
    return 0;
}

-static BlockBackend *img_open_new_file(const char *filename,
-    QemuOpts *create_opts,
-    const char *fmt, int flags,
-    bool writethrough, bool quiet,
-    bool force_share)
-
-    QDict *options = NULL;
-    options = qdict_new();
-    qemu_opt_foreach(create_opts, img_add_key_secrets, options, &error_abort);
-    return img_open_file(filename, options, fmt, flags, writethrough, quiet,
-        force_share);
-
-}

static BlockBackend *img_open(bool image_opts,
    const char *filename,
    QDict *options = NULL;
-    options = qdict_new();
-    qemu_opt_foreach(create_opts, img_add_key_secrets, options, &error_abort);
-    return img_open_file(filename, options, fmt, flags, writethrough, quiet,
-        force_share);
-
-
static BlockBackend *img_open_new_file(const char *filename,
    QemuOpts *create_opts,
    const char *fmt, int flags,
    bool writethrough, bool quiet,
    bool force_share)
-
-    QDict *options = NULL;
-    options = qdict_new();
-    qemu_opt_foreach(create_opts, img_add_key_secrets, options, &error_abort);
-    return img_open_file(filename, options, fmt, flags, writethrough, quiet,
-        force_share);
-
-}

+ /*
+ * The later open call will need any decryption secrets, and
+ */

+ * bdrv_create() will purge "opts", so extract them now before
+ * they are lost.
+ */
+ if (!skip_create) {
+     open_opts = qdict_new();
+     qemu_opt_foreach(opts, img_add_key_secrets, open_opts, &error_abort);
+ }
+
+ if (!skip_create) {
+     /* Create the new image */
+     ret = bdrv_create(drv, out_filename, opts, &local_err);
+     s.target = img_open_new_file(out_filename, opts, out_fmt,
+                                  flags, writethrough, quiet, false);
+     open_opts = NULL; /* blk_new_open will have freed it */
+     if (!s.target) {
+         ret = -1;
+         qemu_opts_del(opts);
+         qemu_opts_free(create_opts);
+         qemu_opts_del(sn_opts);
+         blk_unref(s.target);
+         if (s.src) {
+             for (bs_i = 0; bs_i < s.src_num; bs_i++) {
+                 ...
+     1.8.3.1

1.564 qrencode 3.4.1 :3.el7.centos
1.564.1 Available under license:

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Version 2.1, February 1999

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@c Local Variables:
c ispell-local-pdict: "ispell-dict"
c End:

1.569 regexp 1.5 :13.el7.centos
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1.574 rrdtool 1.4.8 :9.el7.centos

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Bill Fenner <fenner with research.att.com>
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Daniel Pocock <daniel in pockoc.com.au> rrd_create to mmap port
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Larry Leszcynski <larry with furph.com>
Mark Plaksin <happy@usg.edu> rrd_graph_v
Matt Chambers <mattthw chambers with vanderbilt.edu> --full-size-mode for rrdgraph
Melchior Rabe <rrdtool at mrbad.de> -- legend position patch
McCready mccready with xoanon.colorado.edu
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Patrick Cherry <patrick with bytemark.co.uk>
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Peter Speck <speck with vitality.dk> eps/svg/pdf file format code in rrdtool-1.x
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Philippe.Simonet <Philippe.Simonet with swisscom.com> (NT porting)
Poul-Henning Kamp <phk with freebsd.org> CDEF enhancements
REIBENSCUH Alfred <alfred.reibenschuh with it-austria.com> AIX
Radoslaw Karas <rkaras with tyndall.ie>
Rainer Bawidamann <Rainer.Bawidamann with informatik.uni-ulm.de>
Roman Hoogant <rhogant with ee.ethz.ch>
Ronan Mullally <ronan in 4L.ie>
Roger J. Meier <roger.meier in terreactive.ch> (arbitrary linelength in rrdtool)
Russ Wright <rwwright with home.com>
Sean Summers <sean with Fenstermaker.com> (RPM .spec)
Selena M Brewington <smbrewin with ichips.intel.com> add_ds
Shane O'Donnell <shaneo with opennms.org>
Simon Leinen <simon with switch.ch>
Steen Linden <Steen.Linden with ebone.net>
Sebastian Harl <sh at tokkee.org> debian packaging, rrdcached fixes and enhancements
Stefan Ludewig <Stefan.Ludewig at exitgames.com> 1.3 WIN32 Port
Stefan Mueller <s.mueller with computer.org> HPUX 11
Steve Harris <steveh with wesley.com.au> AIX portability
Steve Rader <rader with teak.wiscnet.net> (rrd_cgi debugging and LAST)
Terminator rAT <karl_schilke with eli.net>
Tobias Weingartner <weingart with cs.ualberta.ca>
Thomas Gutzler <thomas.gutzler with gmail.com> dashed lines
Tom Crawley <Tom.Crawley with hi.riotinto.com.au> (GCC&HP configuration)
Travis Brown <tebrown with csh.rit.edu>
Tuc <ttsg with ttsg.com>
Ulf Lilleengen <ulf with pvv.ntnu.no> Python binding for 'rrdtool first'
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Martin Sperl <rrdtool martin.sperl.org> (CDEF prediction functions, libdbi)
Philippe Simonet <philippe.simonet with swisscom.ch> (Windows Binaries)
Alexander Lucke (lucky with dns-net.de) of DNS:NET Internet Services (www.dns-net.de) http://rrdtool.org
Hedley Simons <heds@metahusky.net>
Nicola Worthington <nicolaw@cpan.org>
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Protocol Buffers for Go with Gadgets

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Gocheck - A rich testing framework for Go

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Gocheck - A rich testing framework for Go

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

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1.596 sqlite 3.7.17 :8.el7.centos

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<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
<html><head>
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
<title>SQLite Copyright</title>
<style type="text/css">
body {
 margin: auto;
 font-family: Verdana, sans-serif;
 padding: 8px 1%;
}

a { color: #044a64 }
a:visited { color: #734559 }
.logo { position:absolute; margin:3px; }
.tagline {
/* End of "fancyformat" specific rules. */

</head>

<body>

<!-- container div to satisfy validator -->

<a href="index.html">
<img class="logo" src="images/sqlite370_banner.gif" alt="SQLite Logo" border="0"></a>

<!-- IE hack to prevent disappearing logo-->

<div class="tagline">Small. Fast. Reliable. Choose any three.</div>

<table width=100% class="menubar"><tr>
<td width=100%>
<div class="toolbar">
<a href="about.html">About</a>
<a href="sitemap.html">Sitemap</a>
<a href="docs.html">Documentation</a>
<a href="download.html">Download</a>
<a href="copyright.html">License</a>
<a href="news.html">News</a>
<a href="support.html">Support</a>
</div>

<script>
gMsg = "Search SQLite Docs..."

function entersearch() {
  var q = document.getElementById("q");
  if( q.value == gMsg ) { q.value = "" }
  q.style.color = "black"
  q.style.fontStyle = "normal"
}

function leaveSearch() {
  var q = document.getElementById("q");
  if( q.value == "" ) {
    q.value = gMsg
    q.style.color = "#044a64"
    q.style.fontStyle = "italic"
  }
}
</script>

<div style="padding:0 1em 0px 0;white-space:nowrap">
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  font-size:0.9em ; font-style:italic;color:#044a64;" value="Search SQLite Docs..."/>
</form>
</div>
</td>
</tr></table>
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Date:
</td>
</tr>
<td colspan=2>
Name (printed):
</td>
</tr>
</tbody>
</table>
</html>

1.597 squashfs-tools 4.3:0.21.gitaee0aff4.el7.centos
1.598 sshpass 1.06 :2.el7.centos

1.598.1 Available under license:

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

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Fry singer, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
The following people have worked to translate sudo into other languages:

- Blittermann, Mario
- Bogusz, Jakub
- Buo-ren, Lin
- Casagrande, Milo
- Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frédéric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krnar, Tomislav
Marchal, Frédéric
Margeviıus, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

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The of the start-stop-daemon

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

   c) You must cause the whole of the work to be licensed at no
      charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57c721e38d1266c2df055067c18f2ef9 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux

Create 2st primary partition
Set 2nd partition type

---layout----------

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
<td></td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td></td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>

Create default BSD

---layout----------

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

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#   start   end    size   fstype  [fsize bsize cpg]
c:  4096   20479  16384  unused    0 0
d:  0 16064  16065  unused    0 0

BSD disklabel command (m for help):
Command (m for help):

---layout----------

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

Command (m for help):
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0 unused      5  4.1BSD      9  4.4LFS       d boot
1 swap        6 Eighth Edition  a unknown     e ADOS
2 Version 6    7  4.2BSD      b HPFS        f HFS
3 Version 7    8 MS-DOS       c ISO-9660     10 AdvFS
4 System V

BSD disklabel command (m for help):
size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1:       32  7648  0x83
#2:      7680  8704  0xa5
#5:      7936  4864  0x7 (freebsd)
#6:     12544  3584  0x7 (freebsd)

1.633 util-linux 2.23.2 :59.el7.centos.1

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<signature of Ty Coon>, 1 April 1990
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
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<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

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<td></td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

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<tr>
<td></td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
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<td></td>
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</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout--------

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

Command (m for help):
BSD disklabel command (m for help):
4 partitions:
#       start     end      size     fstype   [fsize bsize   cpg]
c:     4096     20479     16384     unused        0     0
    d:     0     16064     16065     unused        0     0

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

BSD disklabel command (m for help):
---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
1.634 vim 7.4.160 :5.el7.centos

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Arnaud LE HORS  BULL Research FRANCE -- Koala Project
(XPM - X PixMap format version 2 & 3)

Internet:  lehors@sophia.inria.fr
Surface Mail:  Arnaud LE HORS, INRIA - Sophia Antipolis,
              2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone:  (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F
*uganda.txt*  For Vim version 7.4.  Last change: 2013 Jul 06

VIM REFERENCE MANUAL  by Bram Moolenaar
SUMMARY

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

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

1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
   a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes.
   The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.
b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

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

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

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

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

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

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

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came
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) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

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

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

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

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

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

*donate*

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

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

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

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

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

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

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

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

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

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

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html
World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

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

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
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:
" Vim syntax file
" Language:Software Distributor product specification file
"(POSIX 1387.2-1995).
" Maintainer:Rex Barzee <rex_barzee@hp.com>
" Last change:25 Apr 2001
if version < 600
" Remove any old syntax stuff hanging around
syn clear
elseif exists("b:current_syntax")
finish
endif
" Product specification files are case sensitive
syn case match
syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor
syn match psfUnquotString +[^"# ][^#]*+ contained
syn region psfQuotString start=+"+ skip=+\\"+ end=+"+ contained
syn match psfObjTag "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*" contained
syn match psfAttAbbrev ",\<\(fa\|fr\|[aclqrv]\)\(<\|>\|<=\|>=\|=\|==\)[^,]\+" contained
syn match psfObjTags "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*\(\s\+\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9az]\+\)*\)*" contained
syn match psfNumber "\<\d\+\>" contained
syn match psfFloat "\<\d\+\>\(\.\<\d\+\>\)*" contained
syn match psfLongDate "\<\d\d\d\d\d\d\d\d\d\d\d\d\.\d\d\>" contained
syn keyword psfState available configured corrupt installed transient contained
syn keyword psfPState applied committed superseded contained
syn keyword psfBoolean false true contained

"Some of the attributes covered by attUnquotString and attQuotString:
" architecture category_tag control_directory copyright
" create_date description directory file_permissions install_source
" install_type location machine_type mod_date number os_name os_release
" os_version pose_as_os_name pose_as_os_release readme revision
" share_link title vendor_tag
syn region psfAttUnquotString matchgroup=psfAttrib start=~^\s*[^# ]\+\s\+[^#" ]~rs=e-1
contains=psfUnquotString,psfComment end=~$~ keepend oneline
syn region psfAttQuotString matchgroup=psfAttrib start=~^\s*[^# ]\+\s\+"~rs=e-1
contains=psfQuotString,psfComment skip=~\\"~ matchgroup=psfQuotString end=~"~ keepend

" These regions are defined in attempt to do syntax checking for some
" of the attributes.

Open Source Used In SD-WAN Cloud OnRamp for Colocation Solution Guide Release 20.1
7122


Define the default highlighting.
"For version 5.7 and earlier: only when not done already
"For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
  if version < 508
    let did_psf_syntax_inits = 1
    command -nargs=+ HiLink hi link <args>
  else
    command -nargs=+ HiLink hi def link <args>
  endif
HiLink psfObject Statement
1.635 virt-manager 1.5.0 :1.el7.centos

1.635.1 Available under license :

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Version 2, June 1991

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1.651 yum 3.4.3 :161.el7.centos
diff -up yum-3.4.3/yum/update_md.py.org yum-3.4.3/yum/update_md.py
--- yum-3.4.3/yum/update_md.py.org 2017-01-24 18:55:03.529842775 +0100
@@ -58,7 +58,7 @@ class UpdateNotice(object):
   A single update notice (for instance, a security fix).
   
- def __init__(self, elem=None):
+ def __init__(self, elem=None, repoid=None, vlogger=None):
   self._md = {
     'from': '',
     'type': '',
@@ -83,6 +83,9 @@ class UpdateNotice(object):
     if elem:
       self._parse(elem)
+
+ self._repoid = repoid
+ self._vlogger = vlogger
+ def __getitem__(self, item):
+   """ Allows scriptable metadata access (ie: un['update_id']). """
+   if type(item) is int:
@@ -103,6 +106,24 @@ class UpdateNotice(object):
     if self._vlogger is None:
       return
     msg = _('Duplicate of %s differs in some fields:
')
-    msg += '%s
' % (_rid(self), data)
-    msg += '>>>>>>>
+    msg += '<<<<<<< %s:%s
' % (_rid(other), data)
+    msg += '>>>>>>> %s:%s
' % (_rid(self), data)
+    # --verbose mode enables this
+    self._vlogger.log(logginglevels.DEBUG_3, msg)
+    if not other or not hasattr(other, '_md'):
+      return False
@@ -113,6 +134,7 @@ class UpdateNotice(object):
    if data == 'status': # FIXME: See below...
        continue
    if self._md[data] != other._md[data]:
+        _log_failure(data)
        return False
    # FIXME: Massive hack, Fedora is really broken and gives status=stable
    # and status=testing for updateinfo notices, just depending on which
@@ -120,8 +142,10 @@ class UpdateNotice(object):
    data = 'status'
    if self._md[data] != other._md[data]:
        _log_failure(data)
+        if self._md[data] not in ('stable', 'testing'):
+            _log_failure(data)
        return False
    if other._md[data] not in ('stable', 'testing'):
+        _log_failure(data)
        return False
    # They are both really "stable" ...
    self._md[data] = 'stable'
@@ -574,7 +598,7 @@ class UpdateMetadata(object):
        for event, elem in safe_iterparse(infile, logger=self._logger):
            if elem.tag == 'update':
                try:
-                    un = UpdateNotice(elem)
+                    un = UpdateNotice(elem, repoid, self._vlogger)
                except UpdateNoticeException, e:
                    msg = _('An update notice%s is broken, skipping.') % _rid(repoid)
                    if self._vlogger:
@@ -587,6 +611,8 @@ class UpdateMetadata(object):
                        msg += _('
You should report this problem to the owner of the %s repository.') % _rid(repoid, "%s ")
                        have_dup = True
                        self._vlogger.warn("%s", msg)
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diff --git a/yum/update_md.py b/yum/update_md.py
--- a/yum/update_md.py2015-01-19 07:44:35.567107008 -0500
@@ -398,6 +399,9 @@ class UpdateMetadata(object):
     except Errors.RepoMDError:
         continue # No metadata found for this repo
```python
def get_notices(self, name=None):
    """ Return all notices. """
    if name is None:
        @ @ -434,16 +438,29 @@ class UpdateMetadata(object):
            name = oldpkg[0]
            arch = oldpkg[1]
            ret = []
            other_arch_list = []
            notices = set()
            for notice in self.get_notices(name):
                for upkg in notice['pkglist']:
                    other_arch = False
                    if upkg['name'] != name or upkg['arch'] != arch:
                        continue
                    if (notice not in notices and upkg['name'] == name and upkg['arch'] in self.archlist):
                        other_arch = True
                    else:
                        continue
                    pkgtup = (upkg['name'], upkg['arch'], upkg['epoch'] or '0',
                        upkg['version'], upkg['release'])
                    if _rpm_tup_vercmp(pkgtup, oldpkg) <= 0:
                        continue
                    ret.append((pkgtup, notice))
                    if other_arch:
                        other_arch_list.append((pkgtup, notice))
                    else:
                        ret.append((pkgtup, notice))
                        notices.add(notice)
            for pkgtup, notice in other_arch_list:
                if notice not in notices:
                    ret.append((pkgtup, notice))
            ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
            return ret
```

```
--- yum-3.4.3/yum/update_md.py.old
+++ yum-3.4.3/yum/update_md.py
@@ -33,6 +33,7 @@ import Errors
                import logginglevels
                from rpmUtils.miscutils
                +from rpmUtils.arch import ArchStorage
```

```python
self.arch_storage = ArchStorage()
self.archlist = self.arch_storage.archlist
+
def get_notices(self, name=None):
    """ Return all notices. """
    if name is None:
        @ @ -434,16 +438,29 @@ class UpdateMetadata(object):
            name = oldpkg[0]
            arch = oldpkg[1]
            ret = []
            other_arch_list = []
            notices = set()
            for notice in self.get_notices(name):
                for upkg in notice['pkglist']:
                    other_arch = False
                    if upkg['name'] != name or upkg['arch'] != arch:
                        continue
                    if (notice not in notices and upkg['name'] == name and upkg['arch'] in self.archlist):
                        other_arch = True
                    else:
                        continue
                    pkgtup = (upkg['name'], upkg['arch'], upkg['epoch'] or '0',
                        upkg['version'], upkg['release'])
                    if _rpm_tup_vercmp(pkgtup, oldpkg) <= 0:
                        continue
                    ret.append((pkgtup, notice))
                    if other_arch:
                        other_arch_list.append((pkgtup, notice))
                    else:
                        ret.append((pkgtup, notice))
                        notices.add(notice)
            for pkgtup, notice in other_arch_list:
                if notice not in notices:
                    ret.append((pkgtup, notice))
            ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
            return ret
```
def safe_iterparse(filename, logger=None):

1.652 yum-metadata-parser 1.1.4
:10.el7.centos

1.653 yum-utils 1.1.31 :50.el7.centos

1.653.1 Available under license :

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1.654 zlib 1.2.7 :18.el7.centos

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