Open Source Used In NX-OS System Software 9.2(2v)

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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.

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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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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(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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1.13 base-passwd 3.5.29 :r0.1.0

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1.17 bash 4.2 :r8

1.17.1 Available under license:

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST
Hi. I snagged some of your bash functions from your home directory on
the FSF machines (naughty, I know), and I was wondering if you'd let
me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-init/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. :-)
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
```

Chet Ramey, Case Western Reserve University
Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey
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  "ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
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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
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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(This file is under construction.)

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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-coffbdf) 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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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
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(This file is under construction.) -*- text -*-

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

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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 sparcc 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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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
(This file is under construction.).*- text -*.

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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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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@end ifinfo

@page
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1.23 bridge-utils 1.5 :r0.0

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzipped/libbzipped version 1.0.4 of 20 December 2006

1.25 busybox 1.23.2 :r0.0

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

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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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The Red Hat developers, without whom CentOS would look very different

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1.36 chkconfig 1.3.61 :4.el7

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Gocheck - A rich testing framework for Go

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1.42 coreutils 8.24 :r0.0

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/* Miscellaneous error functions

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#include <system.h>
#include <paxlib.h>

void
pax_exit ()
{
    exit (exit_status);
}

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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.

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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Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

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FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
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How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

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

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

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

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

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

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

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

That's all there is to it!

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

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

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

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

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
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-- Nathan
=20
---------------------------------------------
Nathan Neulinger EMail: nneul@um... University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216
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

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

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> thus LGPL-2.1 enters to fill this void.

- mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
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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
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>   >
>   > 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
>> 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.

-------------------------------------
Open Source Used In NX-OS System Software 9.2(2v)

> From: Neulinger, Nathan <nnuel@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

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

Happy now? :-)

-a

#!/usr/bin/python
# Copyright 2009, 2012 Jan Dittberner <jan@dittberner.info>
#
# This file is part of cracklib.
#
# cracklib is free software: you can redistribute it and/or modify it
# under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# cracklib is distributed in the hope that it will be useful, but
# WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
# General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with Prua; if not, write to the Free Software Foundation,
# Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

1.49 cracklib 2.9.5 :r0.0
1.49.1 Available under license :

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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...)
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Discussion thread from mailing list archive, with approval from everyone actively
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-- 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...
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> > 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 Fryssinger <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 191Gxptr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helO=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 1HcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B711OCCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=floated
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self-contained would be ideal.

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

Happy now? :-)

-a

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Version 2.1, February 1999

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

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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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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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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining
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<one line to give the library's name and a brief idea of what it does.>
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school, if any, to sign a "copyright disclaimer" for the library, if
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Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James
Random Hacker.

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

That's all there is to it!

1.50 cracklib 2.8.18 :r6
1.50.1 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
=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=G2
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=e
applications are also GPL-2 which imo is just wrong. it isn't the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
> > and see if he wants to relicense his code as LGPL... but at this
> > point,
> > it was enough to just get it consistent and documented as to what
> > it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
> >=20
> > the original license (before moving to sourceforge -- aka, 2.7) was
> > not
> > GPL-2 ... it was a modified artistic license ... i didn't notice the
> > license
> > change until it was mentioned in the latest notes.
> >=20
> > unlike the old license, GPL-2 prevents people from using cracklib
> > unless their
> > applications are also GPL-2 which imo is just wrong. it isn't the
> > place of a
> > library to dictate 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

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 191Gxpfr020623
    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] (heloo=[192.168.1.13])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 11cOcX-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: <1b1b3fd80710010908k11dac0afp1f2dd471059f9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80701010908k11dac0afp1f2dd471059f9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBEFBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self-contained would be ideal.

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

Happy now? :-)

-a

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Version 2.1, February 1999

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

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^L

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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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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.

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

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

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If distribution of object code is made by offering access to copy
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compelled to copy the source along with the object code.

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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
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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.)

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

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

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the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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
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Ty Coon, President of Vice

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1.57 curl 7.24.0 :r8

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License Mixing with apps, libcurl and Third Party Libraries

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

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 clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

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 BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

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

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL’s licensing is a problem for you, consider using GnuTLS or yassl instead.

GnuTLS http://www.gnutls.org/

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

yassl http://www.yassl.com/

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is
a problem for you, consider using OpenSSL or GnuTLS instead.

NSS http://www.mozilla.org/projects/security/pki/nss/

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axTLS http://axtls.sourceforge.net/

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

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/

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

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

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

GNU GSS http://www.gnu.org/software/gss/

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!
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/

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

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.

[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL

1.58 curl 7.59.0 :r0.0

1.58.1 Available under license :

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

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

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

### libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

### OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit
that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

## GnuTLS

(May be used for SSL/TLS support) Uses the [LGPL](https://www.gnu.org/licenses/lgpl.html) license. If this is a problem for you, consider using another TLS library. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

## WolfSSL

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1.59 curl 7.29.0 :42.el7_4.1

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1.60 curlcpp 1.0

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1.61 cyrus-sasl 2.1.26 :17.el7

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ASM: a very small and fast Java bytecode manipulation framework

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#include "db_int.h"

/*
* atol --
*
* PUBLIC: #ifndef HAVE_ATOL
* PUBLIC: long atol __P((const char *));
* PUBLIC: #endif
*/
1.65 dbus 1.4.16 :r13.0

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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 3a0982da308228d796df35f98d787c5cfff2bb5b6.

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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.

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* 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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Protocol Buffers for Go with Gadgets

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

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Gocheck - A rich testing framework for Go

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<signature of Ty Coon>, 1 April 1989
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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
+ Copyright (C) Andrew Tridgell 1999-2005
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** NOTE! The following LGPL license applies to the tdb
** library. This does NOT imply that all of Samba is released
#
# 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): $(OBJ)

(cd pic; ld -Bshareable -o $(BSD_LIB) $(OBJ))
$(MV) pic/$(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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DAMAGE.
#!/bin/sh
find . -type f \! -name \*~ \! -exec grep -q Begin-Header \{\} \; -print \
| grep -v ^./build
This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library library. It is currently
distributed together with the EXT2 file system utilities, which are

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1351


otherwise packaged as "e2fsprogs".

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

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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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

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This is the Debian GNU/Linux prepackaged version of the Common Error
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This package was put together by Yann Dirson <dirson@debian.org>,
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This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
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Theodore Ts'o
23-June-2007

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Theodore Ts'o
23-June-2007

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---

Index: tdbsa/tdb.c

```bash
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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#
# 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): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJ))
$(MV) pic/$(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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Gadi Oxman, August 1995

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

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

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

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

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1.80 e2fsprogs 1.42.9 :7.el7

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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:$BSDLIB

$(BSD_LIB): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJ))
$(MV) pic/$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 $(DESTDIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) $(DESTDIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

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

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

Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
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+ trivial database library - standalone version

- trivial database library - private includes
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| grep -v ^./build
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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 is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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========

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Open Source Used In NX-OS System Software 9.2(2v)

[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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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.

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

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

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

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b) 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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END OF TERMS AND CONDITIONS

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

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

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the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

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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.

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```
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```

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

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# These lines make the symbols to get a @@GCC_4.6.0.

%exclude {
__adtf3
__copysigntf3
__divtc3
__divtf3
__eqtf2
__extenddfrtf2
__extendsftf2
__extendxftf2
__fabstf2
__fixtfdi
__fixtfsi
__fixtfi
__fixunstfidi
__fixunstfsi
__fixunstfii

%ifdef __x86_64__
__floattitf
%endif
__floatunditf
__floatunsitf
%ifdef __x86_64__
__floatuntitf
%endif
__getf2
__gttf2
__letf2
__lttf2
__multc3
__multf3
__negtf2
__netf2
__powitf2
__subtf3
__trunctfdf2
__trunctfsf2
__trunctxf2
__unordtf2
}

GCC_4.8.0 {
__cpu_model
__cpu_indicator_init
}

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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 (martintauachmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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@c man end

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1.109 gcc 4.7.2 :0.0

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

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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

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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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(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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Version 3.1, 31 March 2009

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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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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
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@item
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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@enumerate a
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@end enumerate

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

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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.

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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 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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iconv (Charset Conversion Library) v2.0

(28) Artem Bityuckiy (--enable-newlib-iconv)

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1.111 gdb 7.10.1 :r0.0
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BEGIN{
  FS="";
  print "/" Do not modify this file!! "/
  ".-*- buffer-read-only: t -* - vi" "
  ":set ro:"
  print " It is created automatically by copying.awk."
  print " Modify copying.awk instead. <= */";
  print ""
print "#include "defs.h"
print "#include "command.h"
print "#include "gdbcmd.h"
print ""
print "static void show_copying_command (char *, int);"
print ""
print "static void show_warranty_command (char *, int);"
print ""
print "void _initialize_copying (void);"
print ""
print "static void";
print "show_copying_command (char *ignore, int from_tty);"
print "{";
NR == 1;/^\[ \t\]*15\. Disclaimer of Warranty\.[ ]*$/
if ($0 ~ //)
{
    printf " printf_filtered (\"\n\n\n\n\"
};
else if ($0 !~ /^\[ \t\]*15\. Disclaimer of Warranty\.[ ]*$/)
{
    printf " printf_filtered (\"\n"
    for (i = 1; i < NF; i++)
    printf "\%s\n\", $i;
    printf "\%s\n\", $NF;
}

/^\[ ]*15\. Disclaimer of Warranty\.[ ]*$/
print "\n";
print ""
print "static void";
print "show_warranty_command (char *ignore, int from_tty);"
print "{";
}

/^\[ ]*15\. Disclaimer of Warranty\.[ ]*$/; /^\[ ]*END OF TERMS AND CONDITIONS[ ]*$/
if (! ($0 ~ /^\[ ]*END OF TERMS AND CONDITIONS[ ]*$/))
{
    printf " printf_filtered (\"\n"
    for (i = 1; i < NF; i++)
    printf "\%s\n\", $i;
    printf "\%s\n\", $NF;
}
}
END
print "]\n";
print ""
print "void"
print "_initialize_copying (void);"
print "{";
print "  add_cmd ("copying", no_set_class, show_copying_command, ";
print "  add_cmd ("warranty", no_set_class, show_warranty_command, ";
print "  /* For old-timers, allow "info copying", etc. */";
print "  add_info ("copying", show_copying_command, ";
print "  add_info ("warranty", show_warranty_command, ";
print "  add_info ("warranty", show_warranty_command, ";
print "  add_info ("warranty", show_warranty_command, ";
print "  add_info ("warranty", show_warranty_command, ";
print "  }";
}
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
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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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However, unrestricted linking of non-free programs would deprive the
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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#
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# along with this program.  If not, see <http://www.gnu.org/licenses/>.

***copyright.py

This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review the output is:
  % filterdiff -x \*\*.c -x \*\*.cc -x \*\*.h -x \*\*.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.

***
import datetime
import os
import os.path
import subprocess

def get_update_list():
    """Return the list of files to update.

    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!). The names of
    the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "%s/%s" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
                    or reldirname in EXCLUDE_LIST
                    or reldirname in NOT_FSF_LIST
                    or reldirname in BY_HAND):
                    # Prune this directory from our search list.
                    dirs.remove(dirname)
            for filename in files:
                relpath = "%s/%s" % (root, filename)
                if (filename in EXCLUDE_ALL_LIST
                    or relpath in EXCLUDE_LIST
                    or relpath in NOT_FSF_LIST
                    or relpath in BY_HAND):
                    # Ignore this file.
                    pass
                else:
                    result.append(relpath)
    return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
# Perform the update, and save the output in a string.
update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
update_cmd += update_list

p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                      stderr=subprocess.STDOUT)
update_out = p.communicate()[0]

# Process the output. Typically, a lot of files do not have
# a copyright notice :-(.  The update-copyright script prints
# a well defined warning when it did not find the copyright notice.
# For each of those, do a sanity check and see if they may in fact
# have one.  For the files that are found not to have one, we filter
# the line out from the output, since there is nothing more to do,
# short of looking at each file and seeing which notice is appropriate.
# Too much work! (~4,000 files listed as of 2012-01-03).
update_out = update_out.splitlines()
warning_string = ': warning: copyright statement not found'
warning_len = len(warning_string)

for line in update_out:
    if line.endswith('n'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.
    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
directory.
    The algorithm is fairly crude, meaning that it might return
some false positives.  I do not think it will return any false
negatives...  We might improve this function to handle more
complex cases later...
    """
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50
fd = open(filename)
lineno = 1
for line in fd:
    if 'Copyright' in line:
        return True
    lineno += 1
    if lineno > 50:
        return False
return False

def main ():
    """The main subprogram.""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)
    update_list = get_update_list()
    update_files (update_list)

    # Remind the user that some files need to be updated by HAND...
    if BY_HAND:
        print
        print "\033[31mREMINDER: The following files must be updated by hand."
        "\033[0m"
        for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
            print " " , filename

        # Some constants, placed at the end because they take up a lot of room.
        # The actual value of these constants is not significant to the understanding
        # of the script.
        #
        # Files which should not be modified, either because they are
        # generated, non-FSF, or otherwise special (e.g. license text,
        # or test cases which must be sensitive to line numbering).
        #
        # Filenames are relative to the root directory.
        EXCLUDE_LIST = ( 'gdb/nat/glibc_thread_db.h',
                         'gdb/CONTRIBUTE',
                         'gdb/gnulib/import' )
# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.

EXCLUDE_ALL_LIST = (  
  "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",  
  "fdl.texi", "gpl.texi", "alocal.m4",  
)

# The list of files to update by hand.
BY_HAND = (  
  # These files are sensitive to line numbering.  
  "gdb/testsuite/gdb.base/step-line.inp",  
  "gdb/testsuite/gdb.base/step-line.c",  
)

# Files containing multiple copyright headers. This script is only  
# fixing the first one it finds, so we need to finish the update  
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (  
  "gdb/doc/gdb.texinfo",  
  "gdb/doc/refcard.tex",  
  "gdb/gdbarch.sh",  
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (  
  "gdb/exc_request.defs",  
  "gdb/gdbtk",  
  "gdb/testsuite/gdb.gdbtk/",  
  "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",  
  "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",  
  "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",  
  "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",  
  "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",  
  "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",  
  "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",  
  "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",  
  "sim/arm/arminit.c",  
  "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",  
  "sim/common/cgen-accfp.c",  
)
"sim/mips/m16run.c", "sim/mips/sim-main.c",
"sim/moxie/moxie-gdb.dts",
# Not a single file in sim/ppc/ appears to be copyright FSF :-(.
"sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/id insn.h",
"sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode branch.h",
"sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
"sim/ppc/gen-support.c", "sim/ppc/gen- semantics.h", "sim/ppc/cpu.h",
"sim/ppc/simCallbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
"sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
"sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
"sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
"sim/ppc/options.h", "sim/ppc/gen- decode.c", "sim/ppc/filter.c",
"sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/id-decode.h",
"sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
"sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
"sim/ppc/device_table.h", "sim/ppc/id insn.c", "sim/ppc/inline.c",
"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
"sim/ppc/hw_idc.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
"sim/ppc/simcalls.c", "sim/ppc/dc-complex", "sim/ppc/id-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.e",
"sim/ppc/bits.c", "sim/ppc/decode fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/decode instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gencode.h", "sim/ppc/gen-model.h", "sim/ppc/id-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opt.c", "sim/ppc/gen-icache.e",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul- generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen- semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul- generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/ff.c", "sim/ppc/ff.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/llf.h", "sim/ppc/id-decode.e",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/decode expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.e", "sim/ppc/gen-icache.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)
if __name__ == "__main__":
    main()

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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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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.

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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
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be optional: if the application does not supply it, the square
root function must still compute square roots.)

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on the Library, the distribution of the whole must be on the terms of
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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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Linus Torvalds

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1.115 glib 2.32.3 :r4
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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.

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

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

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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 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
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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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1.117 glib2 2.40.0 :4.el7

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Version 2, June 1991

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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.

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

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

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

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

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

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

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

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

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

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

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

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

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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
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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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Some devices are designed to deny users access to install or run
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software on general-purpose computers, but in those that do, we wish to
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The precise terms and conditions for copying, distribution and
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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

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@end example

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

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

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This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
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@end example

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1.125 google-protobuf/C++ 3
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1.126 gpgme 1.3.2 :5.el7

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1.130 grep 2.21 :r0.0

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@c End:

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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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inotify cron system

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1.167 Java-WebSocket 1.3.0

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1.168 Jettison 1.3.5

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1.169 json 20140107
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1.170 json-c 0.11 :4.el7_0

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1.172 json-smart 1.0.8

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

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

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

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

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

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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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writing it). Whether that is true depends on what the Library does
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   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.

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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.

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derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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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.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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

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

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!
/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* 
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* 
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* 
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* 
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* 
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
* 
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M. Welsh, 6 July 1996

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1.178 keyutils 1.5.8 :3.el7

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

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

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

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

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

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

You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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:

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.)

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.

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

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

@item
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
@end enumerate

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

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

@item
You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

@enumerate a
@item
Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
@item
Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
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``copyright'' line and a pointer to where the full notice is found.

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

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

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Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02110-1301,
USA.
@end example

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

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

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

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end example

That's all there is to it!

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Version 2.1, February 1999

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as the successor of the GNU Library Public License, version 2, hence
Open Source Used In NX-OS System Software 9.2(2v)

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

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

We call this license the "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.

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that 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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- FSF France, for providing me with access to the GCC Compile Farm.
- SourceForge, for their excellent open source development platform.

Last but not least: thanks to everyone who provided bits of information,
reported bugs, provided feedback, or works on including BeeCrypt in any
other distros.

If I've missed anyone, it's due to oversight. Drop me a line and I'll
rectify the situation as quickly as possible.

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

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

We call this license the "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.

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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(agt@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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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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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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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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whether or not they are linked directly with the Library itself.

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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
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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
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to use the modified definitions.)

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

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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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.

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@heading TERMS AND CONDITIONS

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

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fudge factors for nroff and troff

simple accents for nroff and troff

troff and (daisy-wheel) nroff accents
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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.

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

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```
.Vb 4
& <program> Copyright (C) <year> <name of author>
& This program comes with ABSOLUTELY NO WARRANTY; for details type "show w".
& This is free software, and you are welcome to redistribute it
& under certain conditions; type "show c" for details.
.VK
```

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will operate properly with a modified version of the library, if
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```
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@end smallexample
```

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@item
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@enumerate a
@item
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@item
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application-supplied function or table used by this function must
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1.215 libgnutls28 3.3.17.1 :r0.0

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executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
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1.223 liblzma5 5.2.1 :r0.0

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its purpose remains meaningful.

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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
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library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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,
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a) Accompany the work with the complete corresponding
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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That's all there is to it!

1.226 libnetfilter_conntrack 1.0.4 :2.el7

1.226.1 Available under license :

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/*
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**
** This file is part of OSSP uuid, a library for the generation
** of UUIDs which can found at http://www.ossp.org/pkg/lib/uuid/
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**
** uuid.c: PostgreSQL Binding (C part)
*/

/* own headers */
#include "uuid.h"

/* PostgreSQL (part 1/2) headers */
#include "postgres.h"

/* system headers */
/* PostgreSQL (part 2/2) headers */
#include "fmgr.h"
#include "lib/stringinfo.h"
#include "access/hash.h"

/* PostgreSQL module magic cookie
    (PostgreSQL >= 8.2 only) */
#ifdef PG_MODULE_MAGIC
    PG_MODULE_MAGIC;
#endif

/* internal UUID datum data structure */
typedef struct {
    unsigned char uuid_bin[UUID_LEN_BIN];
} uuid_datum_t;

/* forward declarations */
Datum pg_uuid_in (PG_FUNCTION_ARGS);
Datum pg_uuid_out (PG_FUNCTION_ARGS);
Datum pg_uuid_recv (PG_FUNCTION_ARGS);
Datum pg_uuid_send (PG_FUNCTION_ARGS);
Datum pg_uuid_hash (PG_FUNCTION_ARGS);
Datum pg_uuid_make (PG_FUNCTION_ARGS);
Datum pg_uuid_eq (PG_FUNCTION_ARGS);
Datum pg_uuid_ne (PG_FUNCTION_ARGS);
Datum pg_uuid_lt (PG_FUNCTION_ARGS);
Datum pg_uuid_gt (PG_FUNCTION_ARGS);
Datum pg_uuid_le (PG_FUNCTION_ARGS);
Datum pg_uuid_ge (PG_FUNCTION_ARGS);
Datum pg_uuid_cmp (PG_FUNCTION_ARGS);

/* API function: uuid_in */
PG_FUNCTION_INFO_V1(pg_uuid_in);
Datum pg_uuid_in(PG_FUNCTION_ARGS)
{
    char *uuid_str;
    uuid_datum_t *uuid_datum;
    uuid_rec_t rc;
    uuid_t *uuid;
    void *vp;
    size_t len;

    /* sanity check input argument */
    if ((uuid_str = PG_GETARG_CSTRING(0)) == NULL)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
                        errmsg("invalid UUID string")));
if ((len = strlen(uuid_str)) != UUID_LEN_STR)
    ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
        errmsg("invalid UUID string length %d (expected %d)", (int)len, UUID_LEN_STR));

/* import as string representation */
if ((rc = uuid_create(&uuid)) != UUID_RC_OK)
    ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
        errmsg("failed to create UUID object: %s", uuid_error(rc)));
if ((rc = uuid_import(uuid, UUID_FMT_STR, uuid_str, len)) != UUID_RC_OK) {
    uuid_destroy(uuid);
    ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
        errmsg("failed to import UUID string representation: %s", uuid_error(rc)));
}

/* export as binary representation */
if ((uuid_datum = (uuid_datum_t *)palloc(sizeof(uuid_datum_t))) == NULL) {
    uuid_destroy(uuid);
    ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
        errmsg("failed to allocate UUID datum"));
}
vp = &(uuid_datum->uuid_bin);
len = sizeof(uuid_datum->uuid_bin);
if ((rc = uuid_export(uuid, UUID_FMT_BIN, &vp, &len)) != UUID_RC_OK) {
    uuid_destroy(uuid);
    ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
        errmsg("failed to export UUID binary representation: %s", uuid_error(rc)));
}

/* return UUID datum */
PG_RETURN_POINTER(uuid_datum);
}

/* API function: uuid_out */
PG_FUNCTION_INFO_V1(pg_uuid_out);
Datum pg_uuid_out(PG_FUNCTION_ARGS)
{
    uuid_datum_t *uuid_datum;
    uuid_rc_t rc;
    uuid_t *uuid;
    char *uuid_str;
    void *vp;
    size_t len;

    /* sanity check input argument */
    if ((uuid_datum = (uuid_datum_t *)PG_GETARG_POINTER(0)) == NULL)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("invalid UUID datum"));
/* import as binary representation */
if ((rc = uuid_create(&uuid)) != UUID_RC_OK)
    ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
        errmsg("failed to create UUID object: %s", uuid_error(rc))));
if ((rc = uuid_import(uuid, UUID_FMT_BIN, uuid_datum->uuid_bin, sizeof(uuid_datum->uuid_bin))) !=
    UUID_RC_OK) {
    uuid_destroy(uuid);
    ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
        errmsg("failed to import UUID binary representation: %s", uuid_error(rc))));
}

/* export as string representation */
len = UUID_LEN_STR+1;
if ((vp = uuid_str = (char *)palloc(len)) == NULL) {
    uuid_destroy(uuid);
    ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
        errmsg("failed to allocate UUID string")));
}
if ((rc = uuid_export(uuid, UUID_FMT_STR, &vp, &len)) != UUID_RC_OK) {
    uuid_destroy(uuid);
    ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
        errmsg("failed to export UUID string representation: %s", uuid_error(rc))));
}
uuid_destroy(uuid);

/* return UUID string */
PG_RETURN_CSTRING(uuid_str);

/* API function: uuid_recv */
PG_FUNCTION_INFO_V1(pg_uuid_recv);
Datum pg_uuid_recv(PG_FUNCTION_ARGS)
{
    StringInfo uuid_internal;
    uuid_datum_t *uuid_datum;

    /* sanity check input argument */
    if ((uuid_internal = (StringInfo)PG_GETARG_POINTER(0)) == NULL)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("invalid UUID StringInfo object")));
    if (uuid_internal->len != UUID_LEN_BIN)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("invalid UUID binary length %d (expected %d)", uuid_internal->len, UUID_LEN_BIN)));

    /* import as binary representation */
    if (uuid_datum = (uuid_datum_t *)palloc(sizeof(uuid_datum_t))) == NULL)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("failed to allocate UUID struct")));
}
errmsg("failed to allocate UUID datum");
memcpy(uuid_datum->uuid_bin, uuid_internal->data, uuid_internal->len);

/* return UUID datum */
PG_RETURN_POINTER(uuid_datum);
}

/* API function: uuid_send */
PG_FUNCTION_INFO_V1(pg_uuid_send);
Datum pg_uuid_send(PG_FUNCTION_ARGS)
{
    uuid_datum_t *uuid_datum;
    bytea *uuid_bytea;

    /* sanity check input argument */
    if ((uuid_datum = (uuid_datum_t *)PG_GETARG_POINTER(0)) == NULL)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("invalid UUID datum");)

    /* export as binary representation */
    if ((uuid_bytea = (bytea *)palloc(VARHDRSZ + UUID_LEN_BIN)) == NULL)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("failed to allocate UUID bytea");)
#if defined(SET_VARSIZE) /* PostgreSQL >= 8.3 */
    SET_VARSIZE(uuid_bytea, VARHDRSZ + UUID_LEN_BIN);
#else
    uuid_bytea->vl_len = VARHDRSZ + UUID_LEN_BIN;
#endif
    memcpy(uuid_bytea->vl_dat, uuid_datum->uuid_bin, UUID_LEN_BIN);

    /* return UUID bytea */
    PG_RETURN_BYTEA_P(uuid_bytea);
}

/* API function: uuid_make */
PG_FUNCTION_INFO_V1(pg_uuid_make);
Datum pg_uuid_make(PG_FUNCTION_ARGS)
{
    uuid_t *uuid;
    uuid_t *uuid_ns;
    uuid_rc_t rc;
    int version;
    unsigned int mode = 0;
    uuid_datum_t *uuid_datum;
    char *str_ns;
    char *str_name;
    void *vp;
    size_t len;

/* sanity check input argument */
version = (int)PG_GETARG_INT32(0);
switch (version) {
    case 1: mode = UUID_MAKE_V1; break;
    case 3: mode = UUID_MAKE_V3; break;
    case 4: mode = UUID_MAKE_V4; break;
    case 5: mode = UUID_MAKE_V5; break;
    default:
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("invalid UUID version %d (expected 1, 3, 4 or 5)", version));
    }
if (   ((mode & (UUID_MAKE_V1|UUID_MAKE_V4)) && PG_NARGS() != 1)
    || ((mode & (UUID_MAKE_V3|UUID_MAKE_V5)) && PG_NARGS() != 3))
    ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
        errmsg("invalid number (%d) of arguments", PG_NARGS())));

/* make a new UUID */
if ((rc = uuid_create(&uuid)) != UUID_RC_OK)
    ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
        errmsg("failed to create UUID object: %s", uuid_error(rc))));
if (version == 3 || version == 5) {
    if ((str_ns = PG_GETARG_CSTRING(1)) == NULL)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("invalid namespace UUID string"));
    if ((str_name = PG_GETARG_CSTRING(2)) == NULL)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("invalid name string"));
    if ((rc = uuid_create(&uuid_ns)) != UUID_RC_OK)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("failed to create UUID namespace object: %s", uuid_error(rc))));
    if ((rc = uuid_load(uuid_ns, str_ns)) != UUID_RC_OK) {
        if ((rc = uuid_import(uuid_ns, UUID_FMT_STR, str_ns, strlen(str_ns))) != UUID_RC_OK)
            ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
                errmsg("failed to import UUID namespace: %s", uuid_error(rc))));
    }
    if ((rc = uuid_make(uuid, mode, uuid_ns, str_name)) != UUID_RC_OK) {
        uuid_destroy(uuid);
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("failed to make v%d UUID: %s", version, uuid_error(rc))));
    }
    uuid_destroy(uuid_ns);
}
else {
    if ((rc = uuid_make(uuid, mode)) != UUID_RC_OK) {
        uuid_destroy(uuid);
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("failed to make v%d UUID: %s", version, uuid_error(rc))));
    }
/* export as binary representation */
if ((uuid_datum = (uuid_datum_t *)palloc(sizeof(uuid_datum_t))) == NULL) {
    uuid_destroy(uuid);
    ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
        errmsg("failed to allocate UUID datum"));
}
vp = &(uuid_datum->uuid_bin);
len = sizeof(uuid_datum->uuid_bin);
if ((rc = uuid_export(uuid, UUID_FMT_BIN, &vp, &len)) != UUID_RC_OK) {
    uuid_destroy(uuid);
    ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
        errmsg("failed to export UUID binary representation: %s", uuid_error(rc)));
}
uuid_destroy(uuid);
PG_RETURN_POINTER(uuid_datum);
}

/* API function: uuid_hash */
PG_FUNCTION_INFO_V1(pg_uuid_hash);
Datum pg_uuid_hash(PG_FUNCTION_ARGS)
{
    uuid_datum_t *uuid_datum;

    /* sanity check input argument */
    if ((uuid_datum = (uuid_datum_t *)PG_GETARG_POINTER(0)) == NULL)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("invalid UUID datum argument"));

    /* return hash value of the UUID */
    PG_RETURN_INT32(hash_any(uuid_datum->uuid_bin, sizeof(uuid_datum->uuid_bin)));
}

/* INTERNAL function: _uuid_cmp */
static int _uuid_cmp(PG_FUNCTION_ARGS)
{
    uuid_datum_t *uuid_datum1;
    uuid_datum_t *uuid_datum2;
    uuid_t *uuid1;
    uuid_t *uuid2;
    uuid_rc_t rc;
    int result;

    /* sanity check input argument */
    if ((uuid_datum1 = (uuid_datum_t *)PG_GETARG_POINTER(0)) == NULL)
        ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
            errmsg("invalid UUID datum argument"));
errmsg("invalid first UUID datum argument");
if ((uuid_datum2 = (uuid_datum_t *)PG_GETARG_POINTER(1)) == NULL)
  ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
    errmsg("invalid second UUID datum argument");

/* load both UUIDs */
if ((rc = uuid_create(&uuid1)) != UUID_RC_OK)
  ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
    errmsg("failed to create UUID object: %s", uuid_error(rc)));
if ((rc = uuid_create(&uuid2)) != UUID_RC_OK) {
  uuid_destroy(uuid1);
  ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
    errmsg("failed to create UUID object: %s", uuid_error(rc)));
}
if ((rc = uuid_import(uuid1, UUID_FMT_BIN, uuid_datum1->uuid_bin, sizeof(uuid_datum1->uuid_bin))) !=
  UUID_RC_OK) {
  uuid_destroy(uuid1);
  uuid_destroy(uuid2);
  ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
    errmsg("failed to import UUID: %s", uuid_error(rc)));
}
if ((rc = uuid_import(uuid2, UUID_FMT_BIN, uuid_datum2->uuid_bin, sizeof(uuid_datum2->uuid_bin))) !=
  UUID_RC_OK) {
  uuid_destroy(uuid1);
  uuid_destroy(uuid2);
  ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
    errmsg("failed to import UUID: %s", uuid_error(rc)));
}
/* compare UUIDs */
if ((rc = uuid_compare(uuid1, uuid2, &result)) != UUID_RC_OK) {
  uuid_destroy(uuid1);
  uuid_destroy(uuid2);
  ereport(ERROR, (errcode(ERRCODE_DATA_EXCEPTION),
    errmsg("failed to compare UUID objects: %s", uuid_error(rc)));
}
/* cleanup */
uuid_destroy(uuid1);
uuid_destroy(uuid2);

/* return result */
return result;
}

/* API function: uuid_eq */
PG_FUNCTION_INFO_V1(pg_uuid_eq);
Datum pg_uuid_eq(PG_FUNCTION_ARGS)
int rc;
rc = _uuid_cmp(fcinfo);
PG_RETURN_BOOL(rc == 0);
}

/* API function: uuid_ne */
PG_FUNCTION_INFO_V1(pg_uuid_ne);
Datum pg_uuid_ne(PG_FUNCTION_ARGS)
{
  int rc;
  rc = _uuid_cmp(fcinfo);
  PG_RETURN_BOOL(rc != 0);
}

/* API function: uuid_lt */
PG_FUNCTION_INFO_V1(pg_uuid_lt);
Datum pg_uuid_lt(PG_FUNCTION_ARGS)
{
  int rc;
  rc = _uuid_cmp(fcinfo);
  PG_RETURN_BOOL(rc == -1);
}

/* API function: uuid_gt */
PG_FUNCTION_INFO_V1(pg_uuid_gt);
Datum pg_uuid_gt(PG_FUNCTION_ARGS)
{
  int rc;
  rc = _uuid_cmp(fcinfo);
  PG_RETURN_BOOL(rc == 1);
}

/* API function: uuid_le */
PG_FUNCTION_INFO_V1(pg_uuid_le);
Datum pg_uuid_le(PG_FUNCTION_ARGS)
{
  int rc;
  rc = _uuid_cmp(fcinfo);
  PG_RETURN_BOOL(rc < 1);
}

/* API function: uuid_ge */
PG_FUNCTION_INFO_V1(pg_uuid_ge);
Datum pg_uuid_ge(PG_FUNCTION_ARGS)
{
    int rc;

    rc = _uuid_cmp(fcinfo);
    PG_RETURN_BOOL(rc > -1);
}

/* API function: uuid_cmp */
PG_FUNCTION_INFO_V1(pg_uuid_cmp);
Datum pg_uuid_cmp(PG_FUNCTION_ARGS)
{
    int rc;

    rc = _uuid_cmp(fcinfo);
    PG_RETURN_INT32(rc);
}

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For example, on rare occasions, there may be a special need to
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case, there is little to gain by limiting the free library to free
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In other cases, permission to use a particular library in non-free
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free software. For example, permission to use the GNU C Library in
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

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

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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
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5. A program that contains no derivative of any portion of the
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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
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Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also combine or
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changes were used in the work (which must be distributed under
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with the Library, with the complete machine-readable "work that
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to use the modified definitions.)

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interface-compatible with the version that the work was made with.

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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.)

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**1.245 libsm 1.2.1 :r0**

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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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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a
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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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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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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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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.

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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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That's all there is to it!

1.260 libutempter 1.1.6 :4.el7

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Version 2.1, February 1999

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1.263 libx11 1.4.4 :r2

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*                                                                      *
*************************************************************************
* The ref pointer is an opaque type and should remain as such.
* Private data must only be accessible through the getter and
  * setter functions.

************************************************************************/

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1.270 libz1 1.2.8 :r0.0

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 */
/*
* regex.h -- regular expression definitions for lsof
*
* This header file is used only when the dialect has no POSIX-conformant
* regular expression function set. When that is the case, the dialect's
* machine.h will define USE_LIB_REGEX.
*
* When the dialect has a POSIX-conformant regular expression function set,
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*
* V. Abell <abe@purdue.edu>
* Purdue University
*/

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*/
#ifdef USE_LIB_REGEX

/*
 * This section comes from GLIBC 2.2. It is used only when the dialect
 * has no POSIX-conformant regular expression function set. When that is
 * the case, the dialect's machine.h will define USE_LIB_REGEX.
 */

/* Definitions for data structures and routines for the regular
 expression library, version 0.12.

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1.276 lsof 4.85 :r1

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Version 2, June 1991

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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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1.301 ncurses 5.9 :r15.1.0

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1.302 ncurses 5.9 :r13.1

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1.304 net-tools 2.0 :0.17.20131004git.el7

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17. [18] Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
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32. [35] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
33. [36] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
34. [37] Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
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discipline, authentication, precision kernel; clock drivers:
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    space on the stuff in the html/pic/ subdirectory
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49. [53]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock
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50. [54]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
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* $FreeBSD: src/tools/tools/crypto/cryptotest.c,v 1.9 2007/03/21 03:42:51 sam Exp $
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* version: Security.L.1.0.2-229

**************************************************************************
/*
	$OpenBSD: hifn7751.c,v 1.120 2002/05/17 00:33:34 deraadt Exp $*

/*.-
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*
__FBSDID("$FreeBSD: src/sys/dev/hifn/hifn7751.c,v 1.40 2007/03/21 03:42:49 sam Exp $");
*/
/*
* An OCF module that uses Intels IXP CryptACC API to do the crypto.
* This driver requires the IXP400 Access Library that is available
* from Intel in order to operate (or compile).
*
* Written by David McCullough <david_mccullough@mcafee.com>
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#include <linux/version.h>
#if LINUX_VERSION_CODE < KERNEL_VERSION(2,6,38) && !defined(AUTOCONF_INCLUDED)
#include <linux/config.h>
#endif
#include <linux/module.h>
#include <linux/init.h>
#include <linux/list.h>
#include <linux/slab.h>
#include <linux/sched.h>
#include <linux/wait.h>
#include <linux/crypto.h>
#include <linux/interrupt.h>
#include <asm/scatterlist.h>
#include <IxTypes.h>
#include <IxOsBuffMgt.h>
#include <IxNpeDl.h>
#include <IxCryptoAcc.h>
#include <IxQMgr.h>
#include <IxOsServices.h>
#include <IxOsCacheMMU.h>

#include <cryptodev.h>
#include <uio.h>

#ifndef IX_MBUF_PRIV
#define IX_MBUF_PRIV(x) ((x)->priv)
#endif

struct ixp_data;

struct ixp_q {
    struct list_head ixp_q_list;
    struct ixp_data* ixp_q_data;
    struct cryptop* ixp_q_crp;
    struct cryptodesc* ixp_q_ccrd;
    struct cryptodesc* ixp_q_acrd;
    IX_MBUF ixp_q_mbuf;
    UINT8* ixp_hash_dest; /* Location for hash in client buffer */
    UINT8* ixp_hash_src; /* Location of hash in internal buffer */
    unsigned char ixp_q_IV_data[IX_CRYPTO_ACC_MAX_CIPHER_IV_LENGTH];
unsigned char *ixp_q_iv;
};

struct ixp_data {
    int ixp_registered;/* is the context registered */
    int ixp_crd_flags;/* detect direction changes */

    int ixp_cipher_alg;
    int ixp_auth_alg;

    UINT32 ixp_ctx_id;
    UINT32 ixp_hash_key_id;/* used when hashing */
    IXCryptoAccCtx ixp_ctx;
    IX_MBUF ixp_pri_mbuf;
    IX_MBUF ixp_sec_mbuf;

    struct work_struct ixp_pending_work;
    struct work_struct ixp_registration_work;
    struct list_head ixp_q;/* unprocessed requests */
};

#ifdef __ixp46X

#define MAX_IOP_SIZE /* words */
#define MAX_OOP_SIZE 128
#define MAX_PARAMS3

struct ixp_pkq {
    struct list_head pkq_list;
    struct cryptkop *pkq_krp;

    IXCryptoAccPkeEauInOperands pkq_op;
    IXCryptoAccPkeEauOpResult pkq_result;

    UINT32 pkq_ibuf0[MAX_IOP_SIZE];
    UINT32 pkq_ibuf1[MAX_IOP_SIZE];
    UINT32 pkq_ibuf2[MAX_IOP_SIZE];
    UINT32 pkq_obuf[MAX_OOP_SIZE];
};

static LIST_HEAD(ixp_pkq); /* current PK wait list */
static struct ixp_pkq *ixp_pk_cur;
static spinlock_t ixp_pkq_lock;

#endif /* __ixp46X */

static int ixp_blocked = 0;

static int32_t ixp_id = -1;
static struct ixp_data **ixp_sessions = NULL;
static u_int32_t ixp_sesnum = 0;

static int ixp_process(device_t, struct cryptop *, int);
static int ixp_newsession(device_t, u_int32_t *, struct cryptoini *);
static int ixp_freesession(device_t, u_int64_t);
#ifdef __ixp46X
static int ixp_kprocess(device_t, struct cryptkop *krp, int hint);
#endif

#if LINUX_VERSION_CODE < KERNEL_VERSION(2,6,20)
static kmem_cache_t *qcache;
#else
static struct kmem_cache *qcache;
#endif
#define debug ixp_debug
static int ixp_debug = 0;
module_param(ixp_debug, int, 0644);
MODULE_PARM_DESC(ixp_debug, "Enable debug");

static int ixp_init_crypto = 1;
module_param(ixp_init_crypto, int, 0444); /* RO after load/boot */
MODULE_PARM_DESC(ixp_init_crypto, "Call ixCryptoAccInit (default is 1)");

static void ixp_process_pending(void *arg);
static void ixp_registration(void *arg);
#ifdef __ixp46X
static void ixp_process_pending_wq(struct work_struct *work);
static void ixp_registration_wq(struct work_struct *work);
#endif

/*
 * dummy device structure
 */

static struct {
    softc_device_declsc_dev;
} ixpdev;

static device_method_t ixp_methods = {
    /* crypto device methods */
    DEVMETHOD(cryptodev_newsession,ixp_newsession),
    DEVMETHOD(cryptodev_freesession,ixp_freesession),
    DEVMETHOD(cryptodev_process,ixp_process),
    #ifdef __ixp46X

DEVMETHOD(cryptodev_kprocess, ixp_kprocess),
#endif
;

/*
 * Generate a new software session.
 */
static int
ixp_newsession(device_t dev, u_int32_t *sid, struct cryptoini *cri)
{
struct ixp_data *ixp;
u_int32_t i;
#define AUTH_LEN(cri, def) 
(cri->cri_mlen ? cri->cri_mlen : (def))

(dprintk("%s():alg %d\n", __FUNCTION__, cri->cri_alg);
if (sid == NULL || cri == NULL) {
    dprintk("%s,%d - EINVAL\n", __FILE__, __LINE__);
    return EINVAL;
}

if (ixp_sessions) {
    for (i = 1; i < ixp_sesnum; i++)
        if (ixp_sessions[i] == NULL)
            break;
} else
    i = 1;  /* NB: to silence compiler warning */

if (ixp_sessions == NULL || i == ixp_sesnum) {
    struct ixp_data **ixpd;

    if (ixp_sessions == NULL) {
        i = 1;  /* We leave ixp_sessions[0] empty */
        ixp_sesnum = CRYPTO_SW_SESSIONS;
    } else
        ixp_sesnum *= 2;

    ixpd = kmalloc(ixp_sesnum * sizeof(struct ixp_data *), SLAB_ATOMIC);
    if (ixpd == NULL) {
        /* Reset session number */
        if (ixp_sesnum == CRYPTO_SW_SESSIONS)
            ixp_sesnum = 0;
        else
            ixp_sesnum /= 2;
        dprintk("%s,%d: ENOBUFS\n", __FILE__, __LINE__);
        return ENOBUFS;
    }

    memset(ixpd, 0, ixp_sesnum * sizeof(struct ixp_data *));
/* Copy existing sessions */
if (ixp_sessions) {
    memcpy(ixpd, ixp_sessions,
           (ixp_sesnum / 2) * sizeof(struct ixp_data *));
kfree(ixp_sessions);
}

ixp_sessions = ixpd;

ixp_sessions[i] = (struct ixp_data *) kmalloc(sizeof(struct ixp_data), SLAB_ATOMIC);
if (ixp_sessions[i] == NULL) {
    ixp_freesession(NULL, i);
dprintf("%s,%d: EINVAL
", __FILE__, __LINE__);
    return ENOBUFS;
}

*sid = i;

ixp = ixp_sessions[i];
memset(ixp, 0, sizeof(*ixp));

ixp->ixp_cipher_alg = -1;
ixp->ixp_auth_alg = -1;
ixp->ixp_ctx_id = -1;
INIT_LIST_HEAD(&ixp->ixp_q);

ixp->ixp_ctx.useDifferentSrcAndDestMbufs = 0;

while (cri) {
    switch (cri->cri_alg) {
    case CRYPTO_DES_CBC:
        ixp->ixp_cipher_alg = cri->cri_alg;
        ixp->ixp_ctx.cipherCtx.cipherAlgo = IX_CRYPTO_ACC_CIPHER_DES;
        ixp->ixp_ctx.cipherCtx.cipherMode = IX_CRYPTO_ACC_MODE_CBC;
        ixp->ixp_ctx.cipherCtx.cipherKeyLen = (cri->cri_klen + 7) / 8;
        ixp->ixp_ctx.cipherCtx.cipherBlockLen = IX_CRYPTO_ACC_DES_BLOCK_64;
        ixp->ixp_ctx.cipherCtx.cipherInitialVectorLen = IX_CRYPTO_ACC_DES_IV_64;
        memcpy(ixp->ixp_ctx.cipherCtx.key.cipherKey, cri->cri_key, (cri->cri_klen + 7) / 8);
        break;
    case CRYPTO_3DES_CBC:
        ixp->ixp_cipher_alg = cri->cri_alg;
        ixp->ixp_ctx.cipherCtx.cipherAlgo = IX_CRYPTO_ACC_CIPHER_3DES;
ixp->ixp_ctx.cipherCtx.cipherMode = IX_CRYPTO_ACC_MODE_CBC;
ixp->ixp_ctx.cipherCtx.cipherKeyLen = (cri->cri_klen + 7) / 8;
ixp->ixp_ctx.cipherCtx.cipherBlockLen = IX_CRYPTO_ACC_DES_BLOCK_64;
ixp->ixp_ctx.cipherCtx.cipherInitialVectorLen =
    IX_CRYPTO_ACC_DES_IV_64;
memcpy(ixp->ixp_ctx.cipherCtx.key.cipherKey,
        cri->cri_key, (cri->cri_klen + 7) / 8);
bear;

    case CRYPTO_RIJNDAEL128_CBC:
        ixp->ixp_cipher_alg = cri->cri_alg;
        ixp->ixp_ctx.cipherCtx.cipherBlockLen = IX_CRYPTO_ACC_DES_BLOCK_64;
        ixp->ixp_ctx.cipherCtx.cipherInitialVectorLen = 16;
        memcpy(ixp->ixp_ctx.cipherCtx.key.cipherKey,
            cri->cri_key, (cri->cri_klen + 7) / 8);
bear;

    case CRYPTO_MD5:
    case CRYPTO_MD5_HMAC:
        ixp->ixp_auth_alg = cri->cri_alg;
        ixp->ixp_ctx.authCtx.authAlgo = IX_CRYPTO_ACC_AUTH_MD5;
        ixp->ixp_ctx.authCtx.authDigestLen = AUTH_LEN(cri, MD5_HASH_LEN);
        ixp->ixp_ctx.authCtx.aadLen = 0;
        /* Only MD5_HMAC needs a key */
        if (cri->cri_alg == CRYPTO_MD5_HMAC) {
            ixp->ixp_ctx.authCtx.authKeyLen = (cri->cri_klen + 7) / 8;
            if (ixp->ixp_ctx.authCtx.authKeyLen >
                sizeof(ixp->ixp_ctx.authCtx.key.authKey)) {
                printk(
                    "ixp4xx: Invalid key length for MD5_HMAC - %d bits\n",
                    cri->cri_klen);
                ixp_freesession(NULL, i);
                return EINVAL;
            }
            memcpy(ixp->ixp_ctx.authCtx.key.authKey,
                cri->cri_key, (cri->cri_klen + 7) / 8);
        }
bear;

    case CRYPTO_SHA1:
    case CRYPTO_SHA1_HMAC:
        ixp->ixp_auth_alg = cri->cri_alg;
        ixp->ixp_ctx.authCtx.authAlgo = IX_CRYPTO_ACC_AUTH_SHA1;
        ixp->ixp_ctx.authCtx.authDigestLen = AUTH_LEN(cri, SHA1_HASH_LEN);
        ixp->ixp_ctx.authCtx.aadLen = 0;
/* Only SHA1_HMAC needs a key */
if (cri->cri_alg == CRYPTO_SHA1_HMAC) {
    ixp->ixp_ctx.authCtx.authKeyLen = (cri->cri_klen + 7) / 8;
    if (ixp->ixp_ctx.authCtx.authKeyLen >
        sizeof(ixp->ixp_ctx.authCtx.key.authKey)) {
        printk(
            "ixp4xx: Invalid key length for SHA1_HMAC - %d bits\n",
            cri->cri_klen);
        ixp_freesession(NULL, i);
        return EINVAL;
    }
    memcpy(ixp->ixp_ctx.authCtx.key.authKey,
        cri->cri_key, (cri->cri_klen + 7) / 8);
    break;
}
break;

default:
    printk("ixp: unknown algo 0x%x\n", cri->cri_alg);
    ixp_freesession(NULL, i);
    return EINVAL;
    }
    cri = cri->cri_next;
}

#if LINUX_VERSION_CODE >= KERNEL_VERSION(2,6,20)
INIT_WORK(&ixp->ixp_pending_work, ixp_process_pending_wq);
INIT_WORK(&ixp->ixp_registration_work, ixp_registration_wq);
#else
INIT_WORK(&ixp->ixp_pending_work, ixp_process_pending, ixp);
INIT_WORK(&ixp->ixp_registration_work, ixp_registration, ixp);
#endif

return 0;

/*
 * Free a session.
 */
static int
ixp_freesession(device_t dev, u_int64_t tid)
{
    u_int32_t sid = CRYPTO_SESID2LID(tid);
    dprintk("%s()\n", __FUNCTION__);
    if (sid > ixp_sesnum || ixp_sessions == NULL ||
        ixp_sessions[sid] == NULL) {
        printk("%s,%d: EINVAL\n", __FILE__, __LINE__);
    }
    return 0;
}
return EINVAL;
}

/* Silently accept and return */
if (sid == 0)
    return 0;

if (ixp_sessions[sid]) {
    if (ixp_sessions[sid]->ixp_ctx_id != -1) {
        ixCryptoAccCtxUnregister(ixp_sessions[sid]->ixp_ctx_id);
        ixp_sessions[sid]->ixp_ctx_id = -1;
    }
    kfree(ixp_sessions[sid]);
}
ixp_sessions[sid] = NULL;
if (ixp_blocked) {
    ixp_blocked = 0;
    crypto_unblock(ixp_id, CRYPTO_SYMQ);
}
return 0;

/*
 * callback for when hash processing is complete
 */

static void
ixp_hash_perform_cb(
    UINT32 hash_key_id,
    IX_MBUF *bufp,
    IX_CryptoAccStatus status)
{
    struct ixp_q *q;

dprintk("%s(%u, %p, 0x%x)n", __FUNCTION__, hash_key_id, bufp, status);

    if (bufp == NULL) {
        printk("ixp: NULL buf in %s\n", __FUNCTION__);}
    return;
}

q = IX_MBUF_PRIV(bufp);
if (q == NULL) {
    printk("ixp: NULL priv in %s\n", __FUNCTION__);}
    return;
}
if (status == IX_CRYPTO_ACC_STATUS_SUCCESS) {
    /* On success, need to copy hash back into original client buffer */
    memcpy(q->ixp_hash_dest, q->ixp_hash_src,
           (q->ixp_q_data->ixp_auth_alg == CRYPTO_SHA1) ? SHA1_HASH_LEN : MD5_HASH_LEN);
} else {
    printk("ixp: hash perform failed status=%d\n", status);
    q->ixp_q_crp->crp_etype = EINVAL;
}

/* Free internal buffer used for hashing */
kfree(IX_MBUF_MDATA(&q->ixp_q_mbuf));
crypto_done(q->ixp_q_crp);
kmem_cache_free(qcache, q);
}

/*
 * setup a request and perform it
 */
static void
ixp_q_process(struct ixp_q *q)
{
    IxCryptoAccStatus status;
    struct ixp_data *ixp = q->ixp_q_data;
    int auth_off = 0;
    int auth_len = 0;
    int crypt_off = 0;
    int crypt_len = 0;
    int icv_off = 0;
    char *crypt_func;

dprintf("%s(%p)\n", __FUNCTION__, q);

    if (q->ixp_q_ccrd) {
        if (q->ixp_q_ccrd->crd_flags & CRD_F_ENCRYPT) {
            if (q->ixp_q_ccrd->crd_flags & CRD_F_IV_EXPLICIT) {
                q->ixp_q_iv = q->ixp_q_ccrd->crd_iv;
            } else {
                q->ixp_q_iv = q->ixp_q_iv_data;
                read_random(q->ixp_q_iv, ixp->ixp_ctx.cipherCtx.cipherInitialVectorLen);
            }
            if ((q->ixp_q_ccrd->crd_flags & CRD_F_IV_PRESENT) == 0)
                crypto_copyback(q->ixp_q_crp->crp_flags, q->ixp_q_crp->crp_buf,
                                q->ixp_q_crd->crd_inject,
                                ixp->ixp_ctx.cipherCtx.cipherInitialVectorLen,
                                (caddr_t) q->ixp_q_iv);
        } else
else {
        if (q->ixp_q_crd->crd_flags & CRD_F_IV_EXPLICIT)
            q->ixp_q_iv = q->ixp_q_crd->crd_iv;
        else {
            q->ixp_q_iv = q->ixp_q_iv_data;
            crypto_copydata(q->ixp_q_cr->crp_flags, q->ixp_q_cr->crp_buf,
                            q->ixp_q_crd->crd_inject,
                            iXP_ctx.cipherCtx.cipherInitialVectorLen,
                            (caddr_t) q->ixp_q_iv);
        }
    }

    if (q->ixp_q_acrd) {
        auth_off = q->ixp_q_acrd->crd_skip;
        auth_len = q->ixp_q_acrd->crd_len;
        icv_off  = q->ixp_q_acrd->crd_inject;
    }

    crypt_off = q->ixp_q_crd->crd_skip;
    crypt_len = q->ixp_q_crd->crd_len;
} else { /* if (q->ixp_q_acrd) */
    auth_off = q->ixp_q_acrd->crd_skip;
    auth_len = q->ixp_q_acrd->crd_len;
    icv_off  = q->ixp_q_acrd->crd_inject;
}

if (q->ixp_q_cr->crp_flags & CRYPTO_F_SKBUF) {
    struct sk_buff *skb = (struct sk_buff *) q->ixp_q_cr->crp_buf;
    if (skb_shinfo(skb)->nr_frags) {
    /*
    * DAVIDM fix this limitation one day by using
    * a buffer pool and chaining, it is not currently
    * needed for current user/kernel space acceleration
    */
        printk("ixp: Cannot handle fragmented skb's yet !n");
        q->ixp_q_cr->crp_type = ENOENT;
        goto done;
    }

    IX_MBUF_MLEN(&q->ixp_q_mbuf) =
    IX_MBUF_PKT_LEN(&q->ixp_q_mbuf) = skb->len;
    IX_MBUF_MDATA(&q->ixp_q_mbuf) = skb->data;
} else if (q->ixp_q_cr->crp_flags & CRYPTO_F_IOV) {
    struct uio *uiop = (struct uio *) q->ixp_q_cr->crp_buf;
    if (uiop->uio_iovcnt != 1) {
    /*
    * DAVIDM fix this limitation one day by using
    * a buffer pool and chaining, it is not currently
    * needed for current user/kernel space acceleration
    */
        return -EINVAL;
    }

    if (uiop->uio_looffset) {
        /*
        * DAVIDM fix this limitation one day by using
        * a buffer pool and chaining, it is not currently
        * needed for current user/kernel space acceleration
        */
        return -EINVAL;
    }

    IX_MBUF_MLEN(&q->ixp_q_mbuf) =
    IX_MBUF_PKT_LEN(&q->ixp_q_mbuf) = skb->len;
    IX_MBUF_MDATA(&q->ixp_q_mbuf) = skb->data;
}
*/
printk("ixp: Cannot handle more than 1 iovec yet !\n");
q->ixp_q_crp->crp_etyp e = ENOENT;
goto done;
}
IX_MBUF_MLEN(&q->ixp_q_mbuf) =
IX_MBUF_PKT_LEN(&q->ixp_q_mbuf) = uio->uio_iolv[0].iov_len;
IX_MBUF_MDATA(&q->ixp_q_mbuf) = uio->uio_iolv[0].iov_base;
} else /* contig buffer */ {
IX_MBUF_MLEN(&q->ixp_q_mbuf) =
IX_MBUF_PKT_LEN(&q->ixp_q_mbuf) = q->ixp_q_crp->crp_ilen;
IX_MBUF_MDATA(&q->ixp_q_mbuf) = q->ixp_q_crp->crp_buf;
}

IX_MBUF_PRIV(&q->ixp_q_mbuf) = q;

if (ixp->ixp_auth_alg == CRYPTO_SHA1 || ixp->ixp_auth_alg == CRYPTO_MD5) {

/*
 * For SHA1 and MD5 hash, need to create an internal buffer that is big
 * enough to hold the original data + the appropriate padding for the
 * hash algorithm.
 */
UINT8 *tbuf = NULL;

IX_MBUF_MLEN(&q->ixp_q_mbuf) = IX_MBUF_PKT_LEN(&q->ixp_q_mbuf) =
((IX_MBUF_MLEN(&q->ixp_q_mbuf) * 8) + 72 + 511) / 8;
tbuf = kmalloc(IX_MBUF_MLEN(&q->ixp_q_mbuf), SLAB_ATOMIC);
if (IX_MBUF_MDATA(&q->ixp_q_mbuf) == NULL) {
printk("ixp: kmalloc(%u, SLAB_ATOMIC) failed\n",
IX_MBUF_MLEN(&q->ixp_q_mbuf));
q->ixp_q_crp->crp_etype = ENOMEM;
goto done;
}
memcpy(tbuf, &(IX_MBUF_MDATA(&q->ixp_q_mbuf))[auth_off], auth_len);
/* Set location in client buffer to copy hash into */
q->ixp_hash_dest =
&(IX_MBUF_MDATA(&q->ixp_q_mbuf))[auth_off + auth_len];

IX_MBUF_MDATA(&q->ixp_q_mbuf) = tbuf;

/* Set location in internal buffer for where hash starts */
q->ixp_hash_src = &(IX_MBUF_MDATA(&q->ixp_q_mbuf))[auth_len];
crypt_func = "ixCryptoAccHashPerform";
status = ixCryptoAccHashPerform(ixp->ixp_ctx.authCtx.authAlgo,
&q->ixp_q_mbuf, ixp_hash_perform_cb, 0, auth_len, auth_len,
/*
&ixp->ixp_hash_key_id);
else {
crypt_func = "ixCryptoAccAuthCryptPerform";
status = ixCryptoAccAuthCryptPerform(ixp->ixp_ctx_id, &q->ixp_q_mbuf,
NULL, auth_off, auth_len, crypt_off, crypt_len, icv_off,
q->ixp_q_iv);
}

if (IX_CRYPTO_ACC_STATUS_SUCCESS == status)
return;

if (IX_CRYPTO_ACC_STATUS_QUEUE_FULL == status) {
q->ixp_q_crp->crp_etype = ENOMEM;
goto done;
}

printk("ixp: %s failed %u\n", crypt_func, status);
q->ixp_q_crp->crp_etype = EINVAL;

done:
crypto_done(q->ixp_q_crp);
kmem_cache_free(qcache, q);
}

/*
 * because we cannot process the Q from the Register callback
 * we do it here on a task Q.
 */

static void
ixp_process_pending(void *arg)
{
struct ixp_data *ixp = arg;
struct ixp_q *q = NULL;

dprintf("\%s(%p)\n", __FUNCTION__, arg);

if (!ixp)
return;

while (!list_empty(&ixp->ixp_q)) {
q = list_entry(ixp->ixp_q.next, struct ixp_q, ixp_q_list);
list_del(&q->ixp_q_list);
ixp_q_process(q);
}
}
#if LINUX_VERSION_CODE >= KERNEL_VERSION(2,6,20)
static void
ixp_process_pending_wq(struct work_struct *work)
{
    struct ixp_data *ixp = container_of(work, struct ixp_data, ixp_pending_work);
    ixp_process_pending(ixp);
}
#endif

/*
 * callback for when context registration is complete
 */

static void
ixp_register_cb(UINT32 ctx_id, IX_MBUF *bufp, IxCryptoAccStatus status)
{
    int i;
    struct ixp_data *ixp;
    struct ixp_q *q;

    dprintk("%s(%d, %p, %d)\n", __FUNCTION__, ctx_id, bufp, status);

    /*
    * free any buffer passed in to this routine
    */
    if (bufp) {
        IX_MBUF_MLEN(bufp) = IX_MBUF_PKT_LEN(bufp) = 0;
        kfree(IX_MBUF_MDATA(bufp));
        IX_MBUF_MDATA(bufp) = NULL;
    }

    for (i = 0; i < ixp_sesnum; i++) {
        ixp = ixp_sessions[i];
        if (ixp && ixp->ixp_ctx_id == ctx_id)
            break;
    }

    if (i >= ixp_sesnum) {
        printk("ixp: invalid context id %d\n", ctx_id);
        return;
    }

    if (IX_CRYPTO_ACC_STATUS_WAIT == status) {
        /* this is normal to free the first of two buffers */
        dprintk("ixp: register not finished yet.\n");
        return;
    }
}
if (IX_CRYPTO_ACC_STATUS_SUCCESS != status) {
    printk("ixp: register failed 0x%lx\n", status);
    while (!list_empty(&ixp->ixp_q)) {
        q = list_entry(ixp->ixp_q.next, struct ixp_q, ixp_q_list);
        list_del(&q->ixp_q_list);
        q->ixp_q_crp->crp_etype = EINVVAL;
        crypto_done(q->ixp_q_crp);
        kmem_cache_free(qcache, q);
    }
    return;
}

/*
 * we are now registered, we cannot start processing the Q here
 * or we get strange errors with AES (DES/3DES seem to be ok).
 */
ixp->ixp_registered = 1;
schedule_work(&ixp->ixp_pending_work);
}

/*
 * callback for when data processing is complete
 */
static void
ixp_perform_cb(
    UINT32 ctx_id,
    IX_MBUF *sbufp,
    IX_MBUF *dbufp,
    IX_CRYPTOACCSTATUS status)
{
    struct ixp_q *q;

dprintk("%s(%d, %p, %p, 0x%x)\n", __FUNCTION__, ctx_id, sbufp, dbufp, status);

    if (sbufp == NULL) {
        printk("ixp: NULL sbuf in ixp_perform_cb\n");
        return;
    }

    q = IX_MBUF_PRIV(sbufp);
    if (q == NULL) {
        printk("ixp: NULL priv in ixp_perform_cb\n");
        return;
    }
if (status != IX_CRYPTO_ACC_STATUS_SUCCESS) {
    printk("ixp: perform failed status=%d\n", status);
    q->ixp_q_crp->crp_etype = EINVAL;
}

crypto_done(q->ixp_q_crp);
kmem_cache_free(qcache, q);
}

static void
ixp_registration(void *arg)
{
    struct ixp_data *ixp = arg;
    struct ixp_q *q = NULL;
    IX_MBUF *pri = NULL, *sec = NULL;
    int status = IX_CRYPTO_ACC_STATUS_SUCCESS;
    if (!ixp) {
        printk("ixp: ixp_registration with no arg\n");
        return;
    }
    if (ixp->ixp_ctx_id != -1) {
        ixCryptoAccCtxUnregister(ixp->ixp_ctx_id);
        ixp->ixp_ctx_id = -1;
    }
    if (list_empty(&ixp->ixp_q)) {
        printk("ixp: ixp_registration with no Q\n");
        return;
    }
    /*
     * setup the primary and secondary buffers
     */
    q = list_entry(ixp->ixp_q.next, struct ixp_q, ixp_q_list);
    if (q->ixp_q_acrd) {
        pri = &ixp->ixp_pri_mbuf;
sec = &ixp->ixp_sec_mbuf;
IX_MBUF_MLEN(pri) = IX_MBUF_PKT_LEN(pri) = 128;
IX_MBUF_MDATA(pri) = (unsigned char *) kmalloc(128, SLAB_ATOMIC);
IX_MBUF_MLEN(sec) = IX_MBUF_PKT_LEN(sec) = 128;
IX_MBUF_MDATA(sec) = (unsigned char *) kmalloc(128, SLAB_ATOMIC);
}

/* Only need to register if a crypt op or HMAC op */
if (!(ixp->ixp_auth_alg == CRYPTO_SHA1 ||
    ixp->ixp_auth_alg == CRYPTO_MD5)) {
    status = ixCryptoAccCtxRegister(
        &ixp->ixp_ctx,
        pri, sec,
        ixp_register_cb,
        ixp_perform_cb,
        &ixp->ixp_ctx_id);
}
else {
/* Otherwise we start processing pending q */
schedule_work(&ixp->ixp_pending_work);
}

if (IX_CRYPTO_ACC_STATUS_SUCCESS == status)
    return;

if (IX_CRYPTO_ACC_STATUS_EXCEED_MAX_TUNNELS == status) {
    printk("ixp: ixCryptoAccCtxRegister failed (out of tunnels)\n");
    ixp_blocked = 1;
    /* perhaps we should return EGAIN on queued ops ? */
    return;
}

printk("ixp: ixCryptoAccCtxRegister failed %d\n", status);
ixp->ixp_ctx_id = -1;

/*
 * everything waiting is toasted
 */
while (!list_empty(&ixp->ixp_q)) {
    q = list_entry(ixp->ixp_q.next, struct ixp_q, ixp_q_list);
    list_del(&q->ixp_q_list);
    q->ixp_q_crp->crp_etype = ENOENT;
    crypto_done(q->ixp_q_crp);
    kmem_cache_free(qcache, q);
}

#if LINUX_VERSION_CODE >= KERNEL_VERSION(2,6,20)
static void
ixp_registration_wq(struct work_struct *work)
{
struct ixp_data *ixp = container_of(work, struct ixp_data,
ixp_registration_work);
ixp_registration(ixp);
}
#endif

/*
 * Process a request.
 */
static int
ixp_process(device_t dev, struct cryptop *crp, int hint)
{
struct ixp_data *ixp;
unsigned int lid;
struct ixp_q *q = NULL;
int status;

dprintf("%s\n", __FUNCTION__);

/* Sanity check */
if (crp == NULL) {
    dprintf("%s,%d: EINVAL\n", __FILE__, __LINE__);
    return EINVAL;
}

if (ixp_blocked) return ERESTART;

if (crp->crp_desc == NULL || crp->crp_buf == NULL) {
    dprintf("%s,%d: EINVAL\n", __FILE__, __LINE__);
    crp->crp_etype = EINVAL;
    goto done;
}

/*
 * find the session we are using
 */

lid = crp->crp_sid & 0xffffffff;
if (lid >= ixp_sesnum || lid == 0 || ixp_sessions == NULL ||
    ixp_sessions[lid] == NULL) {
    crp->crp_etype = ENOENT;
    dprintf("%s,%d: ENOENT\n", __FILE__, __LINE__);
}

/*
 * Process a request.
 */

/* Sanity check */
if (crp == NULL) {
    dprintf("%s,%d: EINVAL\n", __FILE__, __LINE__);
    return EINVAL;
}

if (ixp_blocked) return ERESTART;

if (crp->crp_desc == NULL || crp->crp_buf == NULL) {
    dprintf("%s,%d: EINVAL\n", __FILE__, __LINE__);
    crp->crp_etype = EINVAL;
    goto done;
}

/*
 * find the session we are using
 */

lid = crp->crp_sid & 0xffffffff;
if (lid >= ixp_sesnum || lid == 0 || ixp_sessions == NULL ||
    ixp_sessions[lid] == NULL) {
    crp->crp_etype = ENOENT;
    dprintf("%s,%d: ENOENT\n", __FILE__, __LINE__);
}
goto done;
}
ixp = ixp_sessions[lid];

/*
 * setup a new request ready for queuing
 */
q = kmem_cache_alloc(qcache, SLAB_ATOMIC);
if (q == NULL) {
    dprintk("%s,%d: ENOMEM\n", __FILE__, __LINE__); 
    crp->crp_etype = ENOMEM;
goto done;
}

/*
 * save some cycles by only zeroing the important bits
 */
memset(&q->ixp_q_mbuf, 0, sizeof(q->ixp_q_mbuf));
q->ixp_q_ccrd = NULL;
q->ixp_q_acrd = NULL;
q->ixp_q_crp = crp;
q->ixp_q_data = ixp;

/*
 * point the cipher and auth descriptors appropriately
 * check that we have something to do
 */
if (crp->crp_desc->crd_alg == ixp->ixp_cipher_alg)
    q->ixp_q_ccrd = crp->crp_desc;
else if (crp->crp_desc->crd_alg == ixp->ixp_auth_alg)
    q->ixp_q_acrd = crp->crp_desc;
else {
    crp->crp_etype = ENOENT;
    dprintk("%s,%d: bad desc match: ENOENT\n", __FILE__, __LINE__); 
    goto done;
}
if (crp->crp_desc->crd_next) {
    if (crp->crp_desc->crd_next->crd_alg == ixp->ixp_cipher_alg)
        q->ixp_q_ccrd = crp->crp_desc->crd_next;
    else if (crp->crp_desc->crd_next->crd_alg == ixp->ixp_auth_alg)
        q->ixp_q_acrd = crp->crp_desc->crd_next;
    else {
        crp->crp_etype = ENOENT;
        dprintk("%s,%d: bad desc match: ENOENT\n", __FILE__, __LINE__); 
        goto done;
    }
}
* If there is a direction change for this context then we mark it as
* unregistered and re-register is for the new direction. This is not
* a very expensive operation and currently only tends to happen when
* user-space application are doing benchmarks
*
* DM - we should be checking for pending requests before unregistering.
*/
if (q->ixp_q_ccrd && ixp->ixp_registered &&
ixp->ixp_crd_flags != (q->ixp_q_ccrd->crd_flags & CRD_F_ENCRYPT)) {
    dprintf("%s - detected direction change on session\n", __FUNCTION__);
    ixp->ixp_registered = 0;
}

/*
 * if we are registered, call straight into the perform code
 */
if (ixp->ixp_registered) {
    ixp_q_process(q);
    return 0;
}

/*
 * the only part of the context not set in newsession is the direction
 * dependent parts
 */
if (q->ixp_q_ccrd) {
    ixp->ixp_crd_flags = (q->ixp_q_ccrd->crd_flags & CRD_F_ENCRYPT);
    if (q->ixp_q_ccrd->crd_flags & CRD_F_ENCRYPT) {
        ixp->ixp_ctx.operation = q->ixp_q_acrd ?
        IX_CRYPTO_ACC_OP_ENCRYPT_AUTH : IX_CRYPTO_ACC_OP_ENCRYPT;
    } else {
        ixp->ixp_ctx.operation = q->ixp_q_acrd ?
        IX_CRYPTO_ACC_OP_AUTH_DECRYPT : IX_CRYPTO_ACC_OP_DECRYPT;
    }
} else {
    /* q->ixp_q_acrd must be set if we are here */
    ixp->ixp_ctx.operation = IX_CRYPTO_ACC_OP_AUTH_CALC;
}

status = list_empty(&ixp->ixp_q);
list_add_tail(&q->ixp_q_list, &ixp->ixp_q);
if (status)
    schedule_work(&ixp->ixp_registration_work);
return 0;

done:
if (q)
    kmem_cache_free(qcache, q);
crypto_done(crp);
return 0;
}

#ifdef __ixp46X
/*
 * key processing support for the ixp465
 */

/*
 * copy a BN (LE) into a buffer (BE) an fill out the op appropriately
 * assume zeroed and only copy bits that are significant
 */

static int
ixp_copy_ibuf(struct crparam *p, IxCryptoAccPkeEauOperand *op, UINT32 *buf)
{
unsigned char *src = (unsigned char *) p->crp_p;
unsigned char *dst;
int len, bits = p->crp_nbits;
dprintk("%s()
", __FUNCTION__);

if (bits > MAX_IOP_SIZE * sizeof(UINT32) * 8) {
dprintk("%s - ibuf too big (%d > %d)
", __FUNCTION__,
bits, MAX_IOP_SIZE * sizeof(UINT32) * 8);
return -1;
}

len = (bits + 31) / 32; /* the number UINT32's needed */
dst = (unsigned char *) &buf[len];
dst--;

while (bits > 0) {
*dst-- = *src++;
bites -= 8;
}

#if 0 /* no need to zero remaining bits as it is done during request alloc */
while (dst > (unsigned char *) buf)
*dst-- = '0';
#endif

op->pData = buf;
op->dataLen = len;
return 0;
}

/*
 * copy out the result, be as forgiving as we can about small output buffers
 */
static int
ixp_copy_obuf(struct crparam *p, IxCryptoAccPkeEauOpResult *op, UINT32 *buf)
{
unsigned char *dst = (unsigned char *) p->crp_p;
unsigned char *src = (unsigned char *) buf;
int len, z, bits = p->crp_nbits;

dprintk("\%s\n", __FUNCTION__); 

len = op->dataLen * sizeof(UINT32);

/* skip leading zeroes to be small buffer friendly */
z = 0;
while (z < len && src[z] == '\0')
z++;

src += len;
src--;
len -= z;

while (len > 0 && bits > 0) {
*dst++ = *src--;
len--;
bits -= 8;
}

while (bits > 0) {
*dst++ = '\0';
bits -= 8;
}

if (len > 0) {
dprintk("\%s - obuf is %d (z=%d, ob=%d) bytes too small\n", 
__FUNCTION__, len, z, p->crp_nbits / 8);
return -1;
}

return 0;
}
/*
 * the parameter offsets for exp_mod
 */

#define IXP_PARAM_BASE 0
#define IXP_PARAM_EXP  1
#define IXP_PARAM_MOD  2
#define IXP_PARAM_RES  3

/*
 * key processing complete callback, is also used to start processing
 * by passing a NULL for pResult
 */

static void
ixp_kperform_cb(
    IXCryptoAccPkeEauOperation operation,
    IXCryptoAccPkeEauOpResult *pResult,
    BOOL carryOrBorrow,
    IX CryptoAccStatus status)
{
    struct ixp_pkq *q, *tmp;
    unsigned long flags;

    printk("%s(0x%x, %p, %d, 0x%x)\n", __FUNCTION__, operation, pResult, 
carryOrBorrow, status);

    /* handle a completed request */
    if (pResult) {
        if (ixp_pk_cur && &ixp_pk_cur->pkq_result == pResult) {
            q = ixp_pk_cur;
            if (status != IX_CRYPTO_ACC_STATUS_SUCCESS) {
                printk("%s() - op failed 0x%x\n", __FUNCTION__, status);
            } else {
                /* copy out the result */
                if (ixp_copy_obuf(&q->pkq_krp->krp_param[IXP_PARAM_RES], 
                    &q->pkq_result, q->pkq_obuf))
                    q->pkq_krp->krp_status = ERANGE; /* could do better */
            }
        } else {
            printk("%s - callback with invalid result pointer\n", __FUNCTION__);
        }
        crypto_kdone(q->pkq_krp);
        kfree(q);
        ixp_pk_cur = NULL;
    } else {
        printk("%s - callback with invalid result pointer\n", __FUNCTION__);
    }

    spin_lock_irqsave(&ixp_pkq_lock, flags);
if (ixp_pk_cur || list_empty(&ixp_pkq)) {
spin_unlock_irqrestore(&ixp_pkq_lock, flags);  
return;
}

list_for_each_entry_safe(q, tmp, &ixp_pkq, pkq_list) {

list_del(&q->pkq_list);
ixp_pk_cur = q;
spin_unlock_irqrestore(&ixp_pkq_lock, flags);

status = ixCryptoAccPkeEauPerform( 
IX_CRYPTO_ACC_OP_EAU_MOD_EXP, 
&q->pkq_op, 
ixp_kperform_cb, 
&q->pkq_result);

if (status == IX_CRYPTO_ACC_STATUS_SUCCESS) {
dprintk("%s() - ixCryptoAccPkeEauPerform SUCCESS\n", __FUNCTION__);  
return; /* callback will return here for callback */
} else if (status == IX_CRYPTO_ACC_STATUS_RETRY) {
printk("%s() - ixCryptoAccPkeEauPerform RETRY\n", __FUNCTION__);  
} else {
printk("%s() - ixCryptoAccPkeEauPerform failed %d\n", 
__FUNCTION__, status);
}
q->pkq_krp->krp_status = ERANGE; /* could do better */
crypto_kdone(q->pkq_krp);
kfree(q);
spin_lock_irqsave(&ixp_pkq_lock, flags);
}
spin_unlock_irqrestore(&ixp_pkq_lock, flags);
}

static int
ixp_kprocess(device_t dev, struct cryptkop *krp, int hint)
{
struct ixp_pkq *q;
int rc = 0;
unsigned long flags;

dprintf("%s l1=%d l2=%d l3=%d l4=%d\n", __FUNCTION__, 
krp->krp_param[IXP_PARAM_BASE].crp_nbits, 
krp->krp_param[IXP_PARAM_EXP].crp_nbits, 
krp->krp_param[IXP_PARAM_MOD].crp_nbits, 
krp->krp_param[IXP_PARAM_RES].crp_nbits);
if (krp->krp_op != CRK_MOD_EXP) {
    krp->krp_status = EOPNOTSUPP;
    goto err;
}

q = (struct ixp_pkq *) kmalloc(sizeof(*q), GFP_KERNEL);
if (q == NULL) {
    krp->krp_status = ENOMEM;
    goto err;
}

/*
 * The PKE engine does not appear to zero the output buffer
 * appropriately, so we need to do it all here.
 */
memset(q, 0, sizeof(*q));

q->pkq_krp = krp;
INIT_LIST_HEAD(&q->pkq_list);

if (ixp_copy_ibuf(&krp->krp_param[IXP_PARAM_BASE], &q->pkq_op.modExpOpr.M, q->pkq_ibuf0))
    rc = 1;
if (!rc && ixp_copy_ibuf(&krp->krp_param[IXP_PARAM_EXP], &q->pkq_op.modExpOpr.e, q->pkq_ibuf1))
    rc = 2;
if (!rc && ixp_copy_ibuf(&krp->krp_param[IXP_PARAM_MOD], &q->pkq_op.modExpOpr.N, q->pkq_ibuf2))
    rc = 3;

if (rc) {
    kfree(q);
    krp->krp_status = ERANGE;
    goto err;
}

q->pkq_result.pData = q->pkq_obuf;
q->pkq_result.dataLen = (krp->krp_param[IXP_PARAM_RES].crp_nbits + 31) / 32;

spin_lock_irqsave(&ixp_pkq_lock, flags);
list_add_tail(&q->pkq_list, &ixp_pkq);
spin_unlock_irqrestore(&ixp_pkq_lock, flags);

if (!ixp_pk_cur)
    ixp_kperform_cb(0, NULL, 0, 0);
return (0);

err:
crypto_kdone(krp);
return (0);
}

#ifdef CONFIG_OCF_RANDOMHARVEST
/*
 * We run the random number generator output through SHA so that it
 * is FIPS compliant.
 */

static volatile int sha_done = 0;
static unsigned char sha_digest[20];

static void
ixp_hash_cb(UINT8 *digest, IxCryptoAccStatus status)
{
    dprintk("%s(%p, %d)\n", __FUNCTION__, digest, status);
    if (sha_digest != digest)
        printk("digest error\n");
    if (IX_CRYPTO_ACC_STATUS_SUCCESS == status)
        sha_done = 1;
    else
        sha_done = -status;
}

static int
ixp_read_random(void *arg, u_int32_t *buf, int maxwords)
{
    IxCryptoAccStatus status;
    int i, n, rc;

dprintf("%s(%p, %d)\n", __FUNCTION__, buf, maxwords);
    memset(buf, 0, maxwords * sizeof(*buf));
    status = ixCryptoAccPkePseudoRandomNumberGet(maxwords, buf);
    if (status != IX_CRYPTO_ACC_STATUS_SUCCESS) {
        dprintf("%s: ixCryptoAccPkePseudoRandomNumberGet failed \n", __FUNCTION__, status);
        return 0;
    }

    /*
     * run the random data through SHA to make it look more random
     */
n = sizeof(sha_digest); /* process digest bytes at a time */

rc = 0;
for (i = 0; i < maxwords; i += n / sizeof(*buf)) {
    if ((maxwords - i) * sizeof(*buf) < n)
        n = (maxwords - i) * sizeof(*buf);
    sha_done = 0;
    status = ixCryptoAccPkeHashPerform(IX_CRYPTO_ACC_AUTH_SHA1,
            (UINT8 *) &buf[i], n, ixp_hash_cb, sha_digest);
    if (status != IX_CRYPTO_ACC_STATUS_SUCCESS) {
        dprintk("ixCryptoAccPkeHashPerform failed %d\n", status);
        return -EIO;
    }
    while (!sha_done) schedule();
    if (sha_done < 0) {
        dprintk("ixCryptoAccPkeHashPerform failed CB %d\n", -sha_done);
        return 0;
    }
    memcpy(&buf[i], sha_digest, n);
    rc += n / sizeof(*buf);
}

return rc;
}
#endif /* CONFIG_OCF_RANDOMHARVEST */

#endif /* __ixp46X */

/*
* our driver startup and shutdown routines
*/

static int
ixp_init(void)
{
    dprintk("%s(%p)\n", __FUNCTION__, ixp_init);

    if (ixp_init_crypto && ixCryptoAccInit() != IX_CRYPTO_ACC_STATUS_SUCCESS)
        printk("ixCryptoAccInit failed, assuming already initialised!\n");

    qcache = kmem_cache_create("ixp4xx_q", sizeof(struct ixp_q), 0,
            SLAB_HWCACHE_ALIGN, NULL
            #if LINUX_VERSION_CODE < KERNEL_VERSION(2,6,23)
                , NULL
            #endif
            );
#ifndef
#endif

if (!qcache) {
    printk("failed to create Qcache\n");
    return -ENOENT;
}

memset(&ixpdev, 0, sizeof(ixpdev));
softe_device_init(&ixpdev, "ixp4xx", 0, ixp_methods);

ixp_id = crypto_get_driverid(softc_get_device(&ixpdev),
CRYPTOCAP_F_HARDWARE);
if (ixp_id < 0)
    panic("IXP/OCF crypto device cannot initialize!");

#define REGISTER(alg) \\
    crypto_register(ixp_id, alg, 0, 0)
REGISTER(CRYPTO_DES_CBC);
REGISTER(CRYPTO_3DES_CBC);
REGISTER(CRYPTO_RIJNDAEL128_CBC);
#ifdef CONFIG_OCF_IXP4XX_SHA1_MD5
REGISTER(CRYPTO_MD5);
REGISTER(CRYPTO_SHA1);
#endif
REGISTER(CRYPTO_MD5_HMAC);
REGISTER(CRYPTO_SHA1_HMAC);
#undef REGISTER

#ifdef __ixp46X
spin_lock_init(&ixp_pkq_lock);
/*
 * we do not enable the go fast options here as they can potentially
 * allow timing based attacks
 *
 * http://www.openssl.org/news/secadv_20030219.txt
 */
ixCryptoAccPkeEauExpConfig(0, 0);
crypto_kregister(ixp_id, CRK_MOD_EXP, 0);
#ifdef CONFIG_OCF_RANDOMHARVEST
crypto_rregister(ixp_id, ixp_read_random, NULL);
#endif
#endif

return 0;
}
ixp_exit(void)
{
    printk("%s\n", __FUNCTION__);
    crypto_unregister_all(ixp_id);
    ixp_id = -1;
    kmem_cache_destroy(qcache);
    qcache = NULL;
}

module_init(ixp_init);
module_exit(ixp_exit);

MODULE_LICENSE("Dual BSD/GPL");
MODULE_AUTHOR("David McCullough <dmccullough@cyberguard.com>");
MODULE_DESCRIPTION("ixp (OCF module for IXP4xx crypto)"");

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* */

/*
* Register definitions for 5601 BlueSteel Networks Ubiquitous Broadband
* Security “uBSec” chip. Definitions from revision 2.8 of the product
* datasheet.
*/

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/* $Id: bsd-setres_id.h,v 1.1 2012/11/05 06:04:37 dtucker Exp $ */

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 */

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

#Open Source Used In NX-OS System Software 9.2(2v) 4977
/* OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_
#endif

typedef struct pollfd {
  int fd;
  short events;
  short revents;
} pollfd_t;

typedef unsigned intnfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLRER0x0008
#if 0
/* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLHUP0x0010

#define POLLNVAL 0x0020
#define POLLRDNORM 0x0040
#define POLLNORMPOLLRDNORM
#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 mourning Exp $ */

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 *
 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED
#endif
#endif

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#endif
#endif

Open Source Used In NX-OS System Software 9.2(2v)
/* 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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* 
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* 
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $*/

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#if !defined(HAVE_POLL) && !defined(HAVE_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

#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#define POLLRDND 0x0040
#define POLLNORM 0x8000
#define POLLWRNORM 0x8000
#define POLLOUT 0x8000
#endif

#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
#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))

#endif
#endif

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4989
```c
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
```

### 1.327 openssh 6.0p1

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1.331 openssl 1.0.0i

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Motorola 68020 20mhz, NetBSD
SSLeay 0.9.0t 29-May-1998
built on Fri Jun  5 12:42:23 EST 1998
options:bn(64,32) md2(char) rc4(idx,int) des(idx,cisc,16,long) idea(int) blowfish(idx)
C flags:gcc -DTERMIOS -O3 -fomit-frame-pointer -Wall -DB_ENDIAN
The 'numbers' are in 1000s of bytes per second processed.

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<th></th>
<th>8 bytes</th>
<th>64 bytes</th>
<th>256 bytes</th>
<th>1024 bytes</th>
<th>8192 bytes</th>
</tr>
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<td>5994.67</td>
<td>8079.73</td>
<td>8845.18</td>
<td>9077.01</td>
</tr>
<tr>
<td>mdc2</td>
<td>5730.67</td>
<td>6122.67</td>
<td>6167.66</td>
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<td>127.31k</td>
<td>209.66k</td>
<td>250.50k</td>
<td>263.99k</td>
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<td>hmac(md5)</td>
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<tr>
<td>des cbc</td>
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<td>30.06k</td>
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<tr>
<td>des ede3</td>
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<td>39.39k</td>
<td>40.03k</td>
<td>40.07k</td>
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<td>85.70k</td>
<td>86.70k</td>
<td>87.09k</td>
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<td>60.42k</td>
<td>60.78k</td>
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<tr>
<td>cast cbc</td>
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<td>50.01k</td>
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<table>
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<th>verify</th>
<th>sign/s</th>
<th>verify/s</th>
</tr>
</thead>
<tbody>
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<td>rsa</td>
<td>512 bits</td>
<td>0.7738s</td>
<td>0.0774s</td>
</tr>
<tr>
<td>rsa</td>
<td>1024 bits</td>
<td>4.3967s</td>
<td>0.2615s</td>
</tr>
<tr>
<td>rsa</td>
<td>2048 bits</td>
<td>29.5200s</td>
<td>0.9664s</td>
</tr>
<tr>
<td>dsa</td>
<td>512 bits</td>
<td>0.7862s</td>
<td>0.9709s</td>
</tr>
<tr>
<td>dsa</td>
<td>1024 bits</td>
<td>2.5375s</td>
<td>3.1625s</td>
</tr>
<tr>
<td>dsa</td>
<td>2048 bits</td>
<td>9.2150s</td>
<td>11.8200s</td>
</tr>
</tbody>
</table>

Pentium Pro 200mhz
FreeBSD 2.1.5
gcc 2.7.2.2

SSLeay 0.7.0 30-Jan-1997
built on Tue Apr 22 12:14:36 EST 1997
options:bn(64,32) md2(int) rc4(idx,int) des(ptr,risc1,16,long) idea(int) blowfish(ptr2)
C flags:gcc -DTERMIOS -D_ANSI_SOURCE -fomit-frame-pointer -O3 -m486 -Wall
The 'numbers' are in 1000s of bytes per second processed.

<table>
<thead>
<tr>
<th></th>
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<th>64 bytes</th>
<th>256 bytes</th>
<th>1024 bytes</th>
<th>8192 bytes</th>
</tr>
</thead>
<tbody>
<tr>
<td>md2</td>
<td>130.99k</td>
<td>367.68k</td>
<td>499.09k</td>
<td>547.04k</td>
<td>566.50k</td>
</tr>
<tr>
<td>mdc2</td>
<td>1924.98k</td>
<td>8393.50k</td>
<td>13464.41k</td>
<td>16010.39k</td>
<td>16820.68k</td>
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<td>5330.43k</td>
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<td>10227.36k</td>
<td>10779.14k</td>
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<td>4572.50k</td>
<td>7459.98k</td>
<td>8791.96k</td>
<td>9341.61k</td>
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<td>rc4</td>
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<td>14546.25k</td>
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<td>3979.14k</td>
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<tr>
<td>des ede3</td>
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<td>1548.33k</td>
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<td>1562.00k</td>
<td>1563.33k</td>
</tr>
<tr>
<td>idea cbc</td>
<td>2195.69k</td>
<td>2506.39k</td>
<td>2529.59k</td>
<td>2545.66k</td>
<td>2546.54k</td>
</tr>
<tr>
<td>rc2 cbc</td>
<td>806.00k</td>
<td>833.52k</td>
<td>837.58k</td>
<td>838.52k</td>
<td>836.69k</td>
</tr>
<tr>
<td>blowfish cbc</td>
<td>4687.34k</td>
<td>5949.97k</td>
<td>6182.43k</td>
<td>6248.11k</td>
<td>6226.09k</td>
</tr>
</tbody>
</table>
rsa  512 bits   0.010s
rsa 1024 bits   0.045s
rsa 2048 bits   0.260s
rsa 4096 bits   1.690s

1.333 OpenSSL 1.0.2d :r0.0

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1.337 ossp-uuid 1.6.2 :r1

1.338 p11-kit 0.20.7 :3.el7

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1.347 pcre 8.32 :14.el7
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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 Module-Build mailing list at <module-build@perl.org>.'
builtRequires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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

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

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.
If the test fails, update at least one of README and perl.c so that they match reality.

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

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) {
  skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

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

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";
# The copyright message is the first paragraph:
local $/ = "";
my $copyright_msg = <$readme>;

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

$year;
}

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

    $year;
}

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1.350 Perl 5.14.2 :r9.4
1.350.1 Available under license :

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

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\end{verbatim}
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@example
\begin{verbatim}
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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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1.358 portmap 6.0 :r9.0

1.359 ppp 2.4.5

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*/

/*
Chat -- a program for automatic session establishment (i.e. dial
*the phone and log in).
*
* Standard termination codes:
* 0 - successful completion of the script
* 1 - invalid argument, expect string too large, etc.
* 2 - error on an I/O operation or fatal error condition.
* 3 - timeout waiting for a simple string.
* 4 - the first string declared as "ABORT"
* 5 - the second string declared as "ABORT"
* 6 - ... and so on for successive ABORT strings.
*
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*/
/*
Unix SMB/CIFS implementation.

trivial database library

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* Updated to ppp-2.4.1 by Bernhard Kaindl
* Updated to ppp-2.4.2 by David Woodhouse 2004.
* - disconnect method added
* - remove_options() abuse removed.
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1.367 pugixml 1.4

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pugixml 1.4 - an XML processing library

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src/ - header and source files

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1.370 python 2.7.5 :16.el7

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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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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.. highlightlang:: none

.. _history-and-license:

*******************
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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.

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Mersenne Twister

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

The `mod:` `random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::
A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

The `socket` module uses the functions, `getaddrinfo`, and
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The source for the :mod:`fpectl` module includes the following notice:

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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

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The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

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

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

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

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

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test_epoll
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1.374 python-async 0.6.1 :r0

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Metadata-Version: 1.0
Name: async
Version: 0.6.1
Summary: Async Framework
Home-page: http://gitorious.org/git-python/async
Author: Sebastian Thiel
Author-email: byronimo@gmail.com
License: BSD License
Description: Async is a framework to process interdependent tasks in a pool of workers
Platform: UNKNOWN
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2.6.3  2.6.2  2009  PSF  yes 
2.6.4  2.6.3  2009  PSF  yes 
2.6.5  2.6.4  2010  PSF  yes 
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3.1.3  3.1.2  2010  PSF  yes 
3.1.4  3.1.3  2011  PSF  yes 
3.2  3.1  2011  PSF  yes 
3.2.1  3.2  2011  PSF  yes 
3.2.2  3.2.1  2011  PSF  yes 
3.3  3.2  2012  PSF  yes 

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1.377 python-iniparse 0.3.2 :r0.0

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1.378 python-iniparse 0.3.2 :r0

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1.380 python-ipaddress 1.0 :r0

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1.381 python-nsenter 0.1.6 :r0
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1.383 python-pathlib 1.0.1 :r0.0
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1.388 python-pip 1.3.1 :r0

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1.389 python-pycurl 7.19.0 :r2

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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.

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

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

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

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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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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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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
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1.397 python-urlgrabber 3.9.1 :r1
1.397.1 Available under license :

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

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

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

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

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

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

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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.

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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1.398 python-urlgrabber 3.9.1 :r1.0

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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.

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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.

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.

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.)

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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
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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.

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

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

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

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

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the
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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:

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END OF TERMS AND CONDITIONS

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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.

"This License" refers to version 3 of the GNU General Public License.

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

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

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

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

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

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


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

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

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

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

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

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

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

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

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

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

6. Conveying Non-Source Forms.

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

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

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

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

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

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

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

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

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).
The requirement to provide Installation Information does not include a
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for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

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**1.409 rpm 5.4.14 :r0.0**

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End

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THE BASIC LIBRARY FUNCTIONS
-----------------------------

Written by: Philip Hazel
Email local part: ph10
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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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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.

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(which use some of those functions and data) to form executables.

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which has been distributed under these terms. A "work based on the
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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
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d) If a facility in the modified Library refers to a function or a
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the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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

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

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

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

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

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

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

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.)
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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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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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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
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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 the 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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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
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creates an executable that is a derivative of the Library (because it
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- FSF France, for providing me with access to the GCC Compile Farm.
- SourceForge, for their excellent open source development platform.

Last but not least: thanks to everyone who provided bits of information,
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Gocheck - A rich testing framework for Go

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1.417 sed 4.2.2 :5.el7

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Test 1.1:101

Testing argument parsing
First type
e1_l1_1
e1_l1_1
e1_l1_2
e1_l1_2
e1_l1_3
e1_l1_3
e1_l1_4
e1_l1_4
e1_l1_5
e1_l1_5
e1_l1_6
e1_l1_6
e1_l1_7
e1_l1_7
Test 1.2:102

Test 1.3:103

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Test 1.4:104

Second type

Test 1.4.1:105
Test 1.5:106

Test 1.6:107
Test 1.8:109

Test 1.9:110
Test 1.10:111
==============
s_l_l_1
s_l_l_2
s_l_l_3
s_l_l_4
s_l_l_5
s_l_l_6
s_l_l_7
s_l_l_8
s_l_l_9
s_l_l_10
s_l_l_11
s_l_l_12
s_l_l_13
s_l_l_14

Test 1.11:112
==============
e_l_l_1
e_l_l_2
e_l_l_3
e_l_l_4
e_l_l_5
e_l_l_6
e_l_l_7
e_l_l_8
e_l_l_9
e_l_l_10
e_l_l_11
e_l_l_12
e_l_l_13
e_l_l_14

Test 1.12:113
==============
e_l_l_1
Test 1.13:114
s1_l1_12
s2_s1_l1_12
s2_s1_l1_12
s1_l1_13
s2_s1_l1_13
s2_s1_l1_13
s1_l1_14
s2_s1_l1_14
s2_s1_l1_14

============= Test 1.15:116 ==============
e1_l1_1
s1_e1_l1_1
s1_e1_l1_1
e1_l1_2
s1_e1_l1_2
s1_e1_l1_2
e1_l1_3
s1_e1_l1_3
s1_e1_l1_3
e1_l1_4
s1_e1_l1_4
s1_e1_l1_4
e1_l1_5
s1_e1_l1_5
s1_e1_l1_5
e1_l1_6
s1_e1_l1_6
s1_e1_l1_6
e1_l1_7
s1_e1_l1_7
s1_e1_l1_7
e1_l1_8
s1_e1_l1_8
s1_e1_l1_8
e1_l1_9
s1_e1_l1_9
s1_e1_l1_9
e1_l1_10
s1_e1_l1_10
s1_e1_l1_10
e1_l1_11
s1_e1_l1_11
s1_e1_l1_11
e1_l1_12
s1_e1_l1_12
s1_e1_l1_12
s1_e1_l1_12
el_l1_13
s1_e1_l1_13
s1_e1_l1_13
el_l1_14
s1_e1_l1_14
s1_e1_l1_14

===================
Test 1.16:117
===================
el_l1_1
el_l1_1
el_l1_2
el_l1_2
el_l1_3
el_l1_3
el_l1_4
el_l1_4
el_l1_5
el_l1_5
el_l1_6
el_l1_6
el_l1_7
el_l1_7
el_l1_8
el_l1_8
el_l1_9
el_l1_9
el_l1_10
el_l1_10
el_l1_11
el_l1_11
el_l1_12
el_l1_12
el_l1_13
el_l1_13
el_l1_14
el_l1_14
el_l1_1
el_l1_1
el_l1_2
el_l1_2
el_l1_3
el_l1_3
el_l1_4
el_l1_4
el_l1_5
el_l1_5
e1_l1_5
e1_l1_6
e1_l1_6
e1_l1_7
e1_l1_7
e1_l1_8
e1_l1_8
e1_l1_9
e1_l1_9
e1_l1_10
e1_l1_10
e1_l1_11
e1_l1_11
e1_l1_12
e1_l1_12
e1_l1_13
e1_l1_13
e1_l1_14
e1_l1_14

=============
Test 1.17:118
==============
li_1
li_1
li_2
li_2
li_3
li_3
li_4
li_4
li_5
li_5
li_6
li_6
li_7
li_7
li_8
li_8
li_9
li_9
li_10
li_10
li_11
li_11
li_12
li_12
li_13
Testing address ranges

Test 1.18:119

Test 2.1:120

Test 2.2:121

Test 2.3:122

Test 2.4:123

Test 2.5:124
Test 2.6:125
============
l2_9
============
Test 2.7:126
============

Test 2.9:127
============
11_7

Test 2.10:128
============
11_7

Test 2.11:129
============
11_7

Test 2.12:130
============
11_1
11_2
11_3
11_4

Test 2.13:131
============
11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

=============  
Test 2.16:134  
=============  
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6

=============  
Test 2.17:135  
=============  
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_14
12_1
12_2
12_3
12_4
12_5
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Test 2.18:136
---

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Test 2.19:137
---

---

Test 2.20:138
---

---

Brace and other grouping

---

Test 3.1:139
---

---
Test 3.2:140

-------------
1_1
1_2
1_3
^11_4
^11_5
^11_6$
^11_7$
^11T8$
^11_9$
^11T10$
^11_11
^11_12
1_13
1_14

-------------
Test 3.3:141

-------------
^11T1$
^11T2$
^11T3$
1_4
1_5
1_6
1_7
1_8
1_9
1_10
1_11
1_12
^11T13$
^11T14$

-------------
Test 3.4:142

-------------
^11_1
^11_2
^11_3
1_4
1_5
1_6
1_7
1_8
1_9
1_10
Testing a c d and i commands

============
Test 4.1:143
============
before_il1_1
after_i
before_il1_2
after_i
before_il1_3
after_i
before_il1_4
after_i
before_il1_5
after_i
before_il1_6
after_i
before_il1_7
after_i
before_il1_8
after_i
before_il1_9
after_i
before_il1_10
after_i
before_il1_11
after_i
before_il1_12
after_i
before_il1_13
after_i
before_il1_14
after_i
before_il2_1
after_i
before_il2_2
after_i
before_il2_3
after_i
before_il2_4
after_i
before_il2_5
after_i
before_il2_6
inserted
after_ibe_6
before_i2_7
after_ibe_7
before_i2_8
after_ibe_8
before_i2_9
after_ibe_9

=-=-=-=-=-=
Test 4.2:144
=-=-=-=-=-=
before_a11_1
after_abefore_a11_1
before_a11_2
after_abefore_a11_2
before_a11_3
after_abefore_a11_3
before_a11_4
after_abefore_a11_4
before_a5-1211_5
after_abefore_a5-1211_5
appended
before_a5-1211_6
after_abefore_a5-1211_6
appended
before_a5-1211_7
after_abefore_a5-1211_7
appended
before_a5-1211_8
after_abefore_a5-1211_8
appended
before_a5-1211_9
after_abefore_a5-1211_9
appended
before_a5-1211_10
after_abefore_a5-1211_10
appended
before_a5-1211_11
after_abefore_a5-1211_11
appended
before_a5-1211_12
after_abefore_a5-1211_12
appended
before_a11_13
after_abefore_a11_13
before_a11_14
after_abefore_a11_14
before_al2_1
after_abefore_al2_1
before_al2_2
after_abefore_al2_2
before_al2_3
after_abefore_al2_3
before_al2_4
after_abefore_al2_4
before_al2_5
after_abefore_al2_5
before_al2_6
after_abefore_al2_6
before_al2_7
after_abefore_al2_7
before_al2_8
after_abefore_al2_8
before_al2_9
after_abefore_al2_9

==============
Test 4.3:145
==============
^l1_1
^l1_1$
apended
^l1_2
^l1_2$
apended
^l1_3
^l1_3$
apended
^l1_4
^l1_4$
apended
^l1_5
^l1_5$
apended
^l1_6
^l1_6$
apended
^l1_7
^l1_7$
apended
^l1_8
^l1_8
append
^l1_9
^l1_9$
apended
^l1_10
Test 4.4:146

hello

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Test 4.5:147

hello

Test 4.6:148

hello

Test 4.7:149

hello

Test 4.8:150

Testing labels and branching

Test 5.1:151

label2_11_1
label3_label2_11_1
label1_11_2
label1_11_3
label1_11_4
label1_11_5
label1_11_6
label1_11_7
label1_11_8
label1_11_9
label1_11_10
label1_11_11
label1_11_12
label2_11_13
label3_label2_11_13
label2_11_14
label3_label2_11_14

Test 5.2:152

tested l2_1
tested l2_2
tested l2_3
tested l2_4
tested l2_5
tested l2_6
tested l2_7
tested l2_8
tested l2_9
tested l2_10
tested l2_11
tested l2_12
tested l2_13
tested l2_14

================
Test 5.3:153
================
^l1_1
^l1_1$
^l1_2
^l1_2$
^l1_3
^l1_3$
^l1_4
^l1_4$
l1_5$
l1_5$
l1_6$
l1_6$
l1_7$
l1_7$
l1_8$
l1_8$

================
Test 5.4:154
================
^l1_1$
^l1_2$
^l1_3$
^l1_4$
^l1_5$
^l1_6$
^l1_7$
^l1_8$
l1_9$
l1_9$
l1_10$
l1_10$
l1_11$
l1_11$
l1_12$
l1_12$
l1_13$
l1_13$
l1_14$
l1_14$

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Test 5.5:155
changed
canceled
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Test 6.5:163

Test 6.6:164

Testing print and file routines

Test 7.1:165
Test 7.2:166

11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
15
12_1
16
12_2
17
12_3
18
12_4
19
12_5
20
12_6
21
12_7
22
12_8
23
Test 7.3: 167

Test 7.4: 168
Test 7.5:169

Test 7.6:170

Test 7.8:171
Testing substitution commands

Test 8.1:172

Test 8.2:173

Test 8.3:174
Test 8.4:175

l1_1
l1_2
l1_3
l1_4
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14

Test 8.5:176

l1X1
l1X2
l1X3
l1X4
l1X5
l1X6
l1X7
l1X8
l1X9
l1X10
l1X11
l1X12
l1X13
l1X14

Test 8.6:177
Test 8.7:178

Test 8.8:179

x_x1xl4
x_x1xl5
x_x1xl6
x_x1xl7
x_x1xl8
x_x1xl9
x_x1xl10
x_x1xl11
x_x1xl12
x_x1xl13
x_x1xl14
x_x1xl15
x_x1xl16
x_x1xl17
x_x1xl18
x_x1xl19
x_x1xl110
x_x1xl111
Test 8.9:180

l1u0
u1
u21
l1u0
u1
u22
l1u0
u1
u23
l1u0
u1
u24
l1u0
u1
u25
l1u0
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u26
l1u0
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u27
l1u0
u1
u28
l1u0
u1
u29
l1u0
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u210
l1u0
u1
u211
l1u0
u1
u212
l1u0
u1
u213
l1u0
u1
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Test 8.10:181

Test 8.11:182

s wfile results
18_4
18_3
18_2
18_1
18_0
18_89
18_88
18_87
18_86
18_85

================
Test 8.15:186
================
11_1X11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

================
Test 8.16:187
================
eeefff
Xeeefff
XYeefff
XYeYff
XYeYYf
XYeYYY
XYeYYY

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Test 8.17:188
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Version 3, 29 June 2007

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Richards, Matt
Rossum, Guido van
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Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
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The following people have worked to translate sudo into other languages:

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Casagrande, Milo
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The of the start-stop-daemon

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  size: 8.5in 11.0in;
  margin: 0.25in 0.5in 0.25in 0.5in;
  tab-interval: 0.5in;
}
p {
  margin-left: auto;
  margin-top: 0.5em;
  margin-bottom: 0.5em;
}
p.list {
  margin-left: 0.5in;
  margin-top: 0.05em;
  margin-bottom: 0.05em;
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</style>
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# define TARGET_VXWORKS 0
# define TARGET_UNIX 0
# if defined(_MSC_VER)
# define TARGET_MSBVC 1
#else
# define TARGET_MSBVC 0
#endif
# define TARGET_BSD 0
# define TARGET_SYMBIAN 0
#endif
defined(_WRS_KERNEL)
# define TARGET_WINDOWS 0
# define TARGET_VXWORKS 1
# define TARGET_UNIX 0
# define TARGET_MSBVC 0
# define TARGET_BSD 0
# define TARGET_SYMBIAN 0
#endif
defined(__SYMBIAN32__)
# define TARGET_WINDOWS 0
# define TARGET_VXWORKS 0
# define TARGET_UNIX 0
# define TARGET_MSBVC 0
# define TARGET_BSD 0
# define TARGET_SYMBIAN 1
#else
# define TARGET_WINDOWS 0
# define TARGET_VXWORKS 0
# define TARGET_UNIX 1
# define TARGET_MSBVC 0
#endif
defined(__FreeBSD__) || defined(__NetBSD__)
# define TARGET_BSD 1
#else
# define TARGET_BSD 0
#endif
#endif
#endif
#endif
ifndef(SERVICE_Locator)
#define SERVICE_Locator (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS ||
TARGET_SYMBIAN)
#endif
ifndef(SERVICE_RunControl)
#define SERVICE_RunControl (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS)
#endif
ifndef(SERVICE_Breakpoints)
#define SERVICE_Breakpoints (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS)
#endif
ifndef(SERVICE_Memory)
#define SERVICE_Memory (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS)
#endif
#if !defined(SERVICE_Expressions)
#define SERVICE_Expressions   (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS)
#endif
#if !defined(SERVICE_Streams)
#define SERVICE_Streams       (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS ||
TARGET_SYMBIAN)
#endif
#if !defined(SERVICE_PathMap)
#define SERVICE_PathMap       ENABLE_ELF
#endif
#if !defined(SERVICE_Terminals)
#define SERVICE_Terminals     TARGET_UNIX
#endif

#if !defined(ENABLE_Plugins)
  # if TARGET_UNIX && defined(PATH_Plugins)
    # define ENABLE_Plugins   1
  # else
    # define ENABLE_Plugins   0
  # endif
#endif

#if !defined(ENABLE_ZeroCopy)
```c
#define ENABLE_ZeroCopy         1
#endif

#if !defined(ENABLE_Splice)
    # if ENABLE_ZeroCopy
        # include <fcntl.h>
        # if defined(SPLICE_F_MOVE)
            # define ENABLE_Splice       1
        # else
            # define ENABLE_Splice       0
        # endif
    # else
        # define ENABLE_Splice       0
    # endif
#endif

#if !defined(ENABLE_Trace)
    # define ENABLE_Trace          1
#endif

#if !defined(ENABLE_Discovery)
    # define ENABLE_Discovery      1
#endif

#if !defined(ENABLE_Cmdline)
    # define ENABLE_Cmdline        1
#endif

#if !defined(ENABLE_ContextProxy)
    # define ENABLE_ContextProxy   0
#endif

#if !defined(ENABLE_DebugContext)
    # define ENABLE_DebugContext   (ENABLE_ContextProxy || SERVICE_RunControl || SERVICE_Breakpoints || SERVICE_Memory || SERVICE_Registers || SERVICE_StackTrace)
#endif

#if !defined(ENABLE_SymbolsProxy)
    # define ENABLE_SymbolsProxy   (ENABLE_DebugContext && TARGET_VXWORKS)
#endif

#if !defined(ENABLE_LineNumbersProxy)
    # define ENABLE_LineNumbersProxy (ENABLE_DebugContext && TARGET_VXWORKS)
#endif

#if ENABLE_SymbolsProxy || !ENABLE_DebugContext
    #undef SERVICE_Symbols
    #define SERVICE_Symbols       0
```
#endif

#ifndef ENABLE_LineNumbersProxy || !ENABLE_DebugContext
# undef SERVICE_LineNumbers
# define SERVICE_LineNumbers 0
#endif

#ifndef ENABLE_Symbols
# define ENABLE_Symbols (ENABLE_SymbolsProxy || SERVICE_Symbols)
#endif

#ifndef ENABLE_LineNumbers
# define ENABLE_LineNumbers (ENABLE_LineNumbersProxy || SERVICE_LineNumbers)
#endif

#ifndef ENABLE_ELF
# define ENABLE_ELF (TARGET_UNIX && (SERVICE_Symbols || SERVICE_LineNumbers))
#endif

#ifndef ENABLE_SSL
# if (TARGET_UNIX) && !defined(__APPLE__)
# define ENABLE_SSL 1
# else
# define ENABLE_SSL 0
# endif
#endif

#ifndef ENABLE_RCBP_TEST
# if defined(__FreeBSD__) || defined(__NetBSD__) || defined(__APPLE__)
/* TODO: debug services are not fully implemented on BSD */
# define ENABLE_RCBP_TEST 0
# else
# define ENABLE_RCBP_TEST (!ENABLE_ContextProxy && (SERVICE_RunControl &&
SERVICE_Breakpoints))
# endif
#endif

#ifndef ENABLE_AIO
# if !defined(_POSIXASYNCHRONOUS IO)
# define ENABLE_AIO 0
# elif defined(__FreeBSD__) || defined(__NetBSD__) || defined(__APPLE__)
/* On BSD AIO sends signal SIGSYS - bad system call */
# define ENABLE_AIO 0
# else
/* Linux implementation of POSIX AIO found to be inefficient */
# define ENABLE_AIO 0
# elif defined(__linux__)
/* Symbian impl (OpenC) not desired either */
#endif

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# define ENABLE_AIO 0
#else
# define ENABLE_AIO 1
#endif
#endif
#if !defined(ENABLE_STREAM_MACROS)
/* Enabling stream macros increases code size about 5%, and increases speed about 7% */
# define ENABLE_STREAM_MACROS 0
#endif
#if !defined(ENABLE_LUA)
# if defined(PATH_LUA)
# define ENABLE_LUA 1
#else
# define ENABLE_LUA 0
#endif
#endif
#if !defined(ENABLE_Unix_Domain)
/* Using UNIX:/path/to/socket for local TCP communication */
# define ENABLE_Unix_Domain (TARGET_UNIX || TARGET_SYMBIAN)
#endif
#if !defined(ENABLE_ContextStateProperties)
# define ENABLE_ContextStateProperties 0
#endif
#endif /* D_config */

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1.457 tcl 8.5.11 :r11

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It was originally cobbled together by Sean Bastille <hightide@ginch.org>
based in part on the May of 1998 version of the shadow utilities, which

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

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It was originally cobbled together by Sean Bastille <hightide@ginch.org>
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The build system, and the way in which TinyLogin invokes its component
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used for BusyBox. The code has also been majorly reworked to make it
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1.476 udev 164 :r23

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1.478  udev-extraconf 0.0 :r3

1.479  unzip 6.0 :r4
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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.
The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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  *
* A collection of File Manager and related routines
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  *
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  *
* Basic encoding and decoding of Macintosh files to the
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  * .................................................................
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflates, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflates.[ch], explode.c) was originally written by Mark Adler who submitted it
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1.480 unzip 6.0 :r5.0

1.481 update-alternatives-opkg

0.1.8+git0+53274f0875 :r0.0

1.481.1 Available under license :

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

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

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
Device  Boot  Start  End  Sectors  Size Id  Type
<removed>1   2048  4095   2048  1M  83 Linux

Create 2st primary partition
1beb8724ae05d6e4e62b749d65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73f6e bsd.img

---layout----------
Device  Boot  Start  End  Sectors  Size Id  Type

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---layout---------

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

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

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

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

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

---layout---------

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

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

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

Slice Start  End Sectors  Size Type     Fsize Bsize Cpg
a        4096 6144    2049    1M 4.2BSD       0     0   0
c        4096 20479   16384    8M unused       0     0   0
d         0 16064   16065  7.9M unused       0     0   0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

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

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

Command (m for help):
0 unused      5 4.1BSD      9 4.4LFS     d boot
1 swap       6 Eighth Edition  a unknown     e ADOS
2 Version 6   7 4.2BSD      b HPFS       f HFS
3 Version 7   8 MS-DOS     c ISO-9660    10 AdvFS
4 System V

Command (m for help):

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Version 2, June 1991

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#
#
TS_TOPDIR="$(dirname $0)/../
"  
TS_DESC="nested BSD"

. $TS_TOPDIR/functions.sh  
ts_init "$*"

FDISK_CMD_CREATE_DOSLABEL="o\n"  
    # create dos label
FDISK_CMD_SETID="x\n0\x1\n\n"  
    # set non-random ID
FDISK_CMD_WRITE_CLOSE="w\n\n"  
    # write to image
FDISK_CMD_CREATE_PRIMARY1="n\nap\n1\nu\n+1MiB" # 1st primary partition of size 1MiB
FDISK_CMD_CREATE_PRIMARY2="n\nap\n2\nu\n+1MiB" # 2nd primary partition for whole of the disk
FDISK_CMD_CHANGE_PART2TYPE="n\nap\n5\u"  # change partition type FreeBSD

FDISK_CMD_BSD_CREATE="b\nu\n"                # create nested BSD PT
FDISK_CMD_BSD_LIST="b\nu\nq\n"            # list nested BSD PT and quit
FDISK_CMD_BSD_CREATE_PART="b\nu\n\n+1MiB" # add BSD partition 'a', size 1MiB
FDISK_CMD_BSD_PARTTYPE="b\nu\n\u7\u"        # set partition 'a' to type 4.2BSD
FDISK_CMD_BSD_LIST_TYPES="b\nu\nq\n"        # list supported PT types and quit

#set -x

function print_layout {
    echo -ne "\n---layout----------" >> $TS_OUTPUT
    $TS_CMD_FDISK -l ${TEST_IMAGE_NAME} | \
    sed 's/^.*\.img/__ts_dev__/g; \
        s/^[[:blank:]]*Device Boot/ Device Boot/g' >> $TS_OUTPUT 2>&1
    echo -ne "-------------------\n
" >> $TS_OUTPUT
}

function print_bsd_layout {
    echo -ne "\n---layout----------" >> $TS_OUTPUT
    echo -e "${FDISK_CMD_BSD_LIST}" | $TS_CMD_FDISK ${TEST_IMAGE_NAME} | \
    sed 's/Reading .*//g; \
        s/Welcome to fdisk .*//' >> $TS_OUTPUT 2>&1
    echo -ne "-------------------\n
" >> $TS_OUTPUT
}

ts_log "Initialize empty image"
TEST_IMAGE_NAME=$(ts_image_init 10)
ts_image_md5sum >> $TS_OUTPUT 2>&1

print_layout

ts_log "Create new DOS partition table"
echo -e "${FDISK_CMD_CREATE_DOSLABEL}${FDISK_CMD_SETID}${FDISK_CMD_WRITE_CLOSE}" \
| $TS_CMD_FDISK ${TEST_IMAGE_NAME} &> /dev/null
ts_image_md5sum >> $TS_OUTPUT 2>&1

print_layout

ts_log "Create 1st primary partition"
echo -e "${FDISK_CMD_CREATE_PRIMARY1}${FDISK_CMD_WRITE_CLOSE}" | \
$TS_CMD_FDISK ${TEST_IMAGE_NAME} &> /dev/null

ts_image_md5sum >> $TS_OUTPUT 2>&1

print_layout

ts_log "Create 2st primary partition"
echo -e "${FDISK_CMD_CREATE_PRIMARY2}${FDISK_CMD_WRITE_CLOSE}" | \
$TS_CMD_FDISK ${TEST_IMAGE_NAME} &> /dev/null

ts_image_md5sum >> $TS_OUTPUT 2>&1

print_layout
$TS_CMD_FDISK $(TEST_IMAGE_NAME) &> /dev/null

$TS_CMD_FDISK $(TEST_IMAGE_NAME) &> /dev/null

print_layout

ts_log "Create default BSD"

$TS_CMD_FDISK $(TEST_IMAGE_NAME) &> /dev/null

print_bsd_layout

echo -e "$(FDISK_CMD_BSD_CREATE)$(FDISK_CMD_WRITE_CLOSE)" | \n$TS_CMD_FDISK $(TEST_IMAGE_NAME) &> /dev/null

echo -e "$(FDISK_CMD_BSD_CREATE_PART)$(FDISK_CMD_WRITE_CLOSE)" | \n$TS_CMD_FDISK $(TEST_IMAGE_NAME) &> /dev/null

print_bsd_layout

echo -e "$(FDISK_CMD_BSD_LIST_TYPES)" | \n$TS_CMD_FDISK $(TEST_IMAGE_NAME) | \n
sed 's/Reading .*//g; s/Welcome to fdisk .*/!/ >> $TS_OUTPUT 2>&1


ts_finalize

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# 1:  7936-  12799 (  4864 sectors,  2 MB)
# 2: 12544-  16127 (  3584 sectors,  1 MB)
# 1:   32-   7679 (  7648 sectors,  3 MB)
# 2:  7680-  16383 (  8704 sectors,  4 MB)
# 5:  7936-  12799 (  4864 sectors,  2 MB)
# 6: 12544-  16127 (  3584 sectors,  1 MB)
size: 4456448, sector size: 512, PT: bsd, offset: 512
---
#1:   7936   4864  0x7
#2: 12544   3584  0x7
size: 8388608, sector size: 512, PT: dos, offset: 446
---
#1:   32   7648  0x83
#2:  7680  8704  0xa5
#5:  7936  4864  0x7 (freebsd)
#6: 12544  3584  0x7 (freebsd)
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1.490 v86d 0.1.10 :r1

1.490.1 Available under license :

v86d -- A x86 Emulation Daemon

1. Purpose

v86d provides a backend for kernel drivers that need to execute x86 BIOS code. The code is executed in a controlled environment and the results are passed back to the kernel via the netlink interface.

2. Supported architectures

This version of v86d supports the following architectures:
x86, x86-64 (amd64).

3. Configuration

3.1. The C library

v86d can be compiled against two different C libraries: glibc and klibc, glibc being the default.

Compiling against glibc will result in a dynamically linked executable that is not suitable for inclusion in initrds.
Compiling against klibc will result in a relatively small, statically linked binary, which can be included in an initrd.

To compile v86d against klibc, run ./configure --with-klibc after making sure that a recent (1.4 or newer) version of klibc is installed on your system.

3.2. The emulator backend
-------------------------
On x86, the code executed by v86d can be run either in a fully software-emulated environment (x86emu) or a virtualized environment (vm86) supported by the CPU. On other arches or 64-bit systems, the code is always run by x86emu.

To choose the x86emu backend on an x86 system, run ./configure --with-x86emu.

4. Installation & Usage
-----------------------
To configure, build and install v86d with the default settings, run:

```bash
# ./configure --default
# make
# make install
```

If the kernel that you're currently running doesn't provide uvesafb, you can use the KDIR variable to point make to a different kernel tree (e.g. 'make KDIR=/usr/src/linux').

v86d isn't meant to be used in an interactive way. It should be started and called by the kernel. If you want to see it in action, build and load the uvesafb kernel module.

If you want to include v86d into an initramfs image, misc/initramfs provides a minimal config file parsable by gen_init_cpio.

5. Licensing
-------------
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--
Michal Januszewski <spock@gentoo.org>

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Version 2, June 1991

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1.491 vim 7.4.769 :r0.0
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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
" 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-Z0-9 a- z]+\)+\)" contained

syn match  psfNumber "\d+" contained
syn match  psfFloat "\d+\.\d+" contained
syn match  psfLongDate "\d+\d\d\d+\d\d\d\d\d+\d\d\." 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=--~ keepend

" These regions are defined in attempt to do syntax checking for some
" of the attributes.
syn region psfAttTag matchgroup=psfAttrib start="^\s*tag\s\+" contains=psfObjTag,psfComment end="$" keepend oneline

syn region psfAttSpec matchgroup=psfAttrib start="^\s*(ancestor|applied_patches|applied_to|contents|corequisites|exrequisites|prerequisites|software_spec|supersedes|superseded_by)\s\+" contains=psfObjTag,psfAttAbbrev,psfComment end="$" keepend

syn region psfAttTags matchgroup=psfAttrib start="^\s*all_filesets\s\+" contains=psfObjTags,psfComment end="$" keepend

syn region psfAttNumber matchgroup=psfAttrib start="^\s*(compressed_size|instance_id|media_sequence_number|sequence_number|size)\s\+" contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttTime matchgroup=psfAttrib start="^\s*(create_time|ctime|mod_time|mtime|timestamp)\s\+" contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttFloat matchgroup=psfAttrib start="^\s*(data_model_revision|layout_version)\s\+" contains=psfFloat,psfComment end="$" keepend oneline

syn region psfAttLongDate matchgroup=psfAttrib start="^\s*install_date\s\+" contains=psfLongDate,psfComment end="$" keepend oneline

syn region psfAttState matchgroup=psfAttrib start="^\s*(state)\s\+" contains=psfState,psfComment end="$" keepend oneline

syn region psfAttPState matchgroup=psfAttrib start="^\s*(patch_state)\s\+" contains=psfPState,psfComment end="$" keepend oneline

syn region psfAttBoolean matchgroup=psfAttrib start="^\s*(is_kernel|is_locatable|is_patch|is_protected|is_reboot|is_reference|is_secure|is_sparse)\s\+" contains=psfBoolean,psfComment end="$" keepend oneline

syn match  psfComment ".#.$"

" Define the default highlighting.
" For version 5.7 and earlier: only when not done already
" For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
    if version < 508
        let did_psf_syntax_inits = 1
        command -nargs=+ HiLink hi link <args>
    else
        command -nargs=+ HiLink hi def link <args>
    endif
delcommand HiLink
endif

" Long descriptions and copyrights confuse the syntax highlighting, so
" force vim to backup at least 100 lines before the top visible line
" looking for a sync location.
syn sync lines=100

let b:current_syntax = "psf"
*uganda.txt*  For Vim version 7.4.  Last change: 2013 Jul 06

VIM REFERENCE MANUAL  by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*
SUMMARY
*iccf* *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are
couraged 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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   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.
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=== end of license ===

Note:

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

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

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

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

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

- If you distribute a modified version of Vim, you can include your name and
Kibaale Children's Centre 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
Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

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

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

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

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

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

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

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.
Canada: Contact Kibaale Children’s Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children’s Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children’s Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

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

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

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

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

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

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
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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)

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8134 Adliswil
Switzerland

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

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

1.492 vim 7.4.160 :1.el7

1.492.1 Available under license :
*uganda.txt* For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*
SUMMARY
*iicf* *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are
couraged to make a donation for needy children in Uganda. Please see [kcc]
below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

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

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

=== begin of license ===
VIM LICENSE

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 with, at your option.

=== end of license ===

Note:

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

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

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

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- 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: https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q
The e-mail address for sending the money to is: Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.
Others: Transfer to one of these accounts if possible:
   Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
   If that doesn't work:
   Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

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

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

vim:tw=78:ts=8:ft=help:norl:
/*
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 */
1.493 vim 7.3.429

1.493.1 Available under license:

*uganda.txt*  For Vim version 7.3. Last change: 2010 Aug 07

VIM REFERENCE MANUAL  by Bram Moolenaar

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

SUMMARY

*iccf*  *ICCF*

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

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Masaka, Uganda, East Africa

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Kibaale Children's Fund c/o Pacific Academy

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

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

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

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

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

Others: Transfer to one of these accounts if possible:
   Postbank, account 4548774
   Swift code: INGB NL 2A
   IBAN: NL47 PSTB 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:
stichting ICCF Holland
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

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

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

1.494 wget 1.16.3 :r0.0

1.494.1 Available under license:

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Version 3, 29 June 2007

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Preamble

The GNU General Public License is a free, copyleft license for
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The licenses for most software and other practical works are designed
to take away your freedom to share and change the works.  By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users.  We, the Free Software Foundation, use the
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any other work released this way by its authors.  You can apply it to
your programs, too.

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

To protect your rights, we need to prevent others from denying you
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certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.
For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

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

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

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

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

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

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

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

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

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

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1.498 which 2.20 :r3

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1.499 which 2.20

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1.502 wrl-glibc-rebuild 2.15-4.6a-127 :r16

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1.503 wrl-toolchain-prebuilt 4.6a :r2

1.504 xinetd 2.3.15 :r2.1

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**1.505 xinetd 2.3.15 :r2.0**

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2013-11-06

1.507 xz 5.1.1alpha :r1

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