



# Open Source Used In Cisco NX-OS Software 7.0(3)I7(5)

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Text Part Number: 78EE117C99-179866611

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## 1.7 attr/libattr 2.4.46 :12.el7

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```

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Name: base-passwd

Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/\*

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Files: passwd.master, group.master

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

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

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

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

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

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

That's great!

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"ksh scripts" (May 9, 1:36pm)

X-Www: <http://www.armory.com/~spcedt/>

X-Mailer: Mail User's Shell (7.2.5 10/14/92)

To: chet@po.cwru.edu

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Message-ID: <9505092233.aa13001@deepthought.armory.com>

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

John

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

```
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
```

```
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}
} --
} ``The lyf so short, the craft so long to lerne." - Chaucer
}
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
}-- End of excerpt from Chet Ramey
```

From friedman@cli.com Thu May 25 12:19:06 1995

Flags: 10

Return-Path: friedman@cli.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP  
(8.6.10+cwru/CWRU-2.1-ins)

id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)

Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)

id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)

Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)

id AA27213; Thu, 25 May 95 11:18:25 CDT

Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT

Message-Id: <9505251618.AA16031@tepui.cli.com>

From: friedman@gnu.ai.mit.edu (Noah Friedman)

To: chet@po.cwru.edu

Subject: Bash scripts

Reply-To: friedman@gnu.ai.mit.edu

In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400

References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>

Date: Thu, 25 May 95 11:18:21 CST

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

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

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

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```

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```
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```

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## 1.13 bash 4.2 :r8

### 1.13.1 Available under license :

From friedman@cli.com Thu May 25 12:19:06 1995

Flags: 10

Return-Path: friedman@cli.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)

id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)

Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)

id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)

Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)

id AA27213; Thu, 25 May 95 11:18:25 CDT

Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT

Message-Id: <9505251618.AA16031@tepui.cli.com>

From: friedman@gnu.ai.mit.edu (Noah Friedman)

To: chet@po.cwru.edu

Subject: Bash scripts

Reply-To: friedman@gnu.ai.mit.edu

In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400

References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>

Date: Thu, 25 May 95 11:18:21 CST

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

Sure. I think there's a later copy in

~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and  
es frobs in that file.

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

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

Flags: 10

Return-Path: mikel@ora.com

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

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

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

Received: by los.ora.com (4.1/Spike-2.1)

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

Date: Tue, 1 Aug 95 08:57:32 EDT  
From: mikel@ora.com (Michael Loukides)  
Message-Id: <9508011257.AA00672@los.ora.com>  
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]  
To: Chet Ramey <chet@odin.INS.CWRU.Edu>  
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com  
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

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

That's great!

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

-----

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

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

John

On May 9, 1:36pm, Chet Ramey wrote:  
} Subject: ksh scripts  
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995  
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;  
} 9 May 95 10:39 PDT  
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)



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

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Version 3, 29 June 2007

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## 1.15 binutils 2.23.52.0.1 :30.e17\_1.1

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Version 3, 29 June 2007

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@c Local Variables:

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

@c End:

(This file is under construction.) -\*- text -\*-

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

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++

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

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

input-file.c, write.c.

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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@end enumerate

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

```
@page
@appendixsubsec How to Apply These Terms to Your New Libraries
```

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That's all there is to it!

## 1.16 binutils 2.23.51.20120829+4.6a+127 :r5

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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](mailto:nickc@redhat.com) and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++

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

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

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a

sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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

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

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@appendixsubsec Preamble

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

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

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

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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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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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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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

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

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

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood

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```

```
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Ty Coon, President of Vice
@end smalllexample
```

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Julian Seward, Cambridge, UK.  
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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

## 1.19 bzip2 1.0.6 :12.e17

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## 1.20 bzip2 1.0.6 :r5

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## 1.21 ca-certificates 2014.1.98 :72.el7

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## 1.22 centos-release 7 :1.1503.el7.centos.2.8

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# -\*- coding: utf-8 -\*-

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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.

Contributors:

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

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
#!/bin/sh
# make sure `md5sum -c' works for alternate BSD format (md5 -r)

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. "${srcdir=.}/init.sh"; path_prepend_ ../src
print_ver_ md5sum

# Note we start this list with a name
# that's unambiguous in BSD format.
# I.E. one not starting with ' ' or '*'
for i in 'a' 'b' '*c' 'dd' ' '; do
  echo "$i" > "$i"
  md5sum "$i" >> check.md5sum
done
sed 's/ //' check.md5sum > check.md5
```

```
# Note only a single format is supported per run
md5sum --strict -c check.md5sum || fail=1
md5sum --strict -c check.md5 || fail=1

# If we skip the first entry in the BSD format checksums
# then it'll be detected as standard format and error.
# This unlikely caveat was thought better than mandating
# an option to avoid the ambiguity.
tail -n+2 check.md5 | md5sum --strict -c && fail=1

Exit $fail
```

## 1.30 coreutils 8.22 :11.e17

### 1.30.1 Available under license :

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## 1.31 cpio 2.11 :24.e17

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Version 3, 29 June 2007

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```

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## 1.32 cpio 2.11 :r3

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Version 3, 29 June 2007

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

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

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

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

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

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

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

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

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

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

That's all there is to it!

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

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

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

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-----  
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

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Re: [Cracklib-devel] cracklib license

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

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

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

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

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

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 191Gxtpr020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license



Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length: 585  
Lines: 21

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

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

Happy now? :-)

-a

```
#!/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

## 1.34 cracklib 2.8.18 :r6

### 1.34.1 Available under license :

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected  
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Discussion thread from mailing list archive, with approval from everyone actively  
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Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
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by scanin-ipvs.cc.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623  
for <nneul@umn.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
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by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
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Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length: 585  
Lines: 21

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



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Happy now? :-)

-a

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## 1.37 cronie 1.4.11 :13.el7

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 * Rob Earhart
 * Rob Siemborski
 */
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-->

<!-- \$Id: copyright.xml,v 1.8 2009-07-10 23:47:58 tbox Exp \$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '#10;'))"/>

<xsl:text>#10;</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '#10;')"/>

<xsl:if test="translate(\$rest, '#9;#32;', '')">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text" select="\$rest"/>

</xsl:call-template>

</xsl:if>

</xsl:template>

<xsl:variable name="isc.copyright.text">

<xsl:text>

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</xsl:text>

</xsl:variable>

<xsl:variable name="isc.copyright">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text">

<xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">

<xsl:text>Copyright (C) </xsl:text>

<xsl:call-template name="copyright.years">

<xsl:with-param name="years" select="year"/>

</xsl:call-template>

<xsl:text> </xsl:text>

<xsl:value-of select="holder"/>

<xsl:text> &#10;</xsl:text>

</xsl:for-each>

<xsl:value-of select="\$isc.copyright.text"/>

</xsl:with-param>

</xsl:call-template>

</xsl:variable>

</xsl:stylesheet>

<!--

- Local variables:

- mode: sgml

- End:

-->

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

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

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

```
=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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## 1.48 diffutils 3.2 :r7

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```

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```
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```

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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
+ Copyright (C) Jeremy Allison      2000-2006
+ Copyright (C) Paul `Rusty' Russell  2000

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

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

```
install-strip: install
```

```
install-shlibs-strip: install-shlibs
```

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

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

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```
#!/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 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/](http://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 package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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Theodore Ts'o  
23-June-2007

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```
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```

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```
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```

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

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

## 1.52 e2fsprogs 1.42.9 :7.e17

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#

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

#

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

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

```
@echo " MKDIR pic"
```

```
@mkdir -p pic
```

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

```
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
```

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

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

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

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

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

```
install-shlibs install:: $(BSD_LIB)
```

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

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

```
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
@-$(LDCONFIG)
```

```
install-strip: install
```

```
install-shlibs-strip: install-shlibs
```

```
uninstall-shlibs uninstall::
```

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

```
clean::
```

```
$(RM) -rf pic
```

```
$(RM) -f $(BSD_LIB)
```

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

```
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
```

```
+ Copyright (C) Jeremy Allison 2000-2006
```

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\*\* NOTE! The following LGPL license applies to the tdb  
\*\* library. This does NOT imply that all of Samba is released  
#!/bin/sh

```
find . -type f \! -name \*~ \! -exec grep -q Begin-Header \{\} \; -print \  
| grep -v ^./build
```

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Follows the GNU license.

Gadi Oxman, August 1995

-----  
  
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```

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Theodore Ts'o  
23-June-2007

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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.

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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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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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## 1.65 findutils 4.4.2 :r6

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Version 3, 29 June 2007

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## 1.66 fipscheck 1.4.1 :5.e17

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## 1.71 gawk 4.0.2 :4.e17

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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) 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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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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## 1.72 gcc 4.8.3 :9.e17

### 1.72.1 Available under license :

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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.

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\* m4/ax\_func\_which\_gethostbyname\_r.m4

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# 128 bit long double support was introduced with GCC 4.6.0 for FreeBSD.
# These lines make the symbols to get a @@GCC_4.6.0.
```

```
%exclude {
__addtf3
__copysigntf3
__divtc3
__divtf3
__eqtf2
__extenddftf2
__extendsftf2
__extendxftf2
__fabstf2
__fixtfdi
__fixtfsi
__fixtfti
__fixunstfdi
__fixunstfsi
__fixunstfti
__floatditf
__floatsitf
__floattitf
__floatunditf
__floatunsitf
__floatuntitf
__getf2
__gttf2
__letf2
__lttf2
__multc3
__multf3
__negtf2
__netf2
__powitf2
__subtf3
__trunctfdf2
__trunctfsf2
__trunctxf2
__unordtf2
}
```

```
GCC_4.6.0 {
  __addtf3
  %ifndef __x86_64__
    __copysigntf3
  %endif
  __divtc3
  __divtf3
  __eqtf2
  __extenddftf2
  __extendsftf2
  __extendxftf2
  %ifndef __x86_64__
    __fabstf2
  %endif
  __fixtfdi
  __fixtfsi
  %ifdef __x86_64__
    __fixtfti
  %endif
  __fixunstfdi
  __fixunstfsi
  %ifdef __x86_64__
    __fixunstfti
  %endif
  __floatditf
  __floatsitf
  %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 Dossier (dossier@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(agg@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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1998-05-11

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\* m4/ax\_func\_which\_gethostbyname\_r.m4

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Version 3, 29 June 2007

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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@cindex LGPL, Lesser General Public License

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`@iftex`

`@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION`

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Version 3, 29 June 2007

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Version 3, 29 June 2007

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## 1.77 glib 2.32.3 :r4

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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

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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.

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

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will lead to faster development of free libraries.

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

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

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify

that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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



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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,

the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- 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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#### Appendix: How to Apply These Terms to Your New Libraries

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

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

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Ty Coon, President of Vice

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@subheading Preamble

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

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

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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.

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

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

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

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

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

#### @subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License"). Each licensee is addressed as ``you".

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



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

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The modified work must itself be a software library.

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

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

@end enumerate

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

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

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

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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.

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

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

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

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

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

If such an object file uses only numerical parameters, data

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

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

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

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

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

@item

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

version that the work was made with.

@item

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

@item

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

@item

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

@end enumerate

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

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

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

@item

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

@end enumerate

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

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

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

```
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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.
```

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```

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:

```
<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.
```

The hypothetical commands `show w' and `show c' should show the appropriate

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Version 3, 29 June 2007

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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.

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

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```

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```
@iftex
@unnumberedsec TERMS AND CONDITIONS
@end iftex
@ifinfo
@center TERMS AND CONDITIONS
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```
@enumerate 0
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@example

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

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@end example

@noindent

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

@noindent

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

@smallexample

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

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# 1.84 gnutls 2.12.17 :r7.3

## 1.84.1 Available under license :

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@smallexample

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

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@c This file is intended to be included within another document,
@c hence no sectioning command or @node.
```

```
@display
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## 1.85 google-protobuf/C++ 3

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

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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.

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

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

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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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@end smallexample

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## 1.89 grep 2.9 :r3

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

## 1.90 grep 2.20 :2.e17

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## 1.96 hostname 3.13 :3.e17

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## 1.97 i2c-tools 3.1.0 :r0

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## 1.105 inotify-tools 3.14 :r0

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## 1.113 iw 3.6

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## 1.115 Java-WebSocket 1.3.0

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## 1.124 kernel-linux 3.4.10

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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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\* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.  
\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
\*/

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## 1.126 keyutils 1.5.8 :3.e17

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

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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## 1.127 kmod 14 :10.e17

### 1.127.1 Available under license :

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Version 2, June 1991

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```
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```
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```

```
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Ty Coon, President of Vice
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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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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
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lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
```

lib/libgss/g\_canon\_name.c  
lib/libgss/g\_compare\_name.c  
lib/libgss/g\_context\_time.c  
lib/libgss/g\_delete\_sec\_context.c  
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lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
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lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et

slave/kpropd\_rpc.c  
slave/kproplog.c

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

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@smallexample

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@cindex LGPL, Lesser General Public License

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@appendixsubsec Preamble

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

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@appendixsubsec How to Apply These Terms to Your New Libraries

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

@smallexample

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

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

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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., 59 Temple Place, Suite 330, Boston, MA 02110-1301, USA.

@end smallexample

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

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

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

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

That's all there is to it!

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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  
the version number 2.1.]

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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

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

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

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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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work



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

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

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

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

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

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

the Library into a program that is not a library.

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a

work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,

the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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

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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic

pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

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

## TERMS AND CONDITIONS

### 0. Definitions.

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

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#### 1. Source Code.

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

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

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

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

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

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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(agg@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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Ty Coon, President of Vice

That's all there is to it!

@node Library Copying

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

@display

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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.]

@end display

@appendixsubsec Preamble

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This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is

modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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

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

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

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

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

system.

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

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

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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@center GNU LESSER GENERAL PUBLIC LICENSE

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@item

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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.

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You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form

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

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

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

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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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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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@appendixsubsec How to Apply These Terms to Your New Libraries

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

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

@smallexample

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

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@end smallexample

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

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

@smallexample

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

@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

@end smallexample

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Version 3, 29 June 2007

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

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

## TERMS AND CONDITIONS

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### 1. Source Code.

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

A "Standard Interface" means an interface that either is an official

standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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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.

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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:

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

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

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

That's all there is to it!  
Jan 21, 2002

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## GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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This GCC Runtime Library Exception ("Exception") is an additional permission under section 7 of the GNU General Public License, version 3 ("GPLv3"). It applies to a given file (the "Runtime Library") that bears a notice placed by the copyright holder of the file stating that the file is governed by GPLv3 along with this Exception.

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

### 0. Definitions.

A file is an "Independent Module" if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without modifications, governed by version 3 (or a specified later version) of the GNU General Public License (GPL) with the option of using any subsequent versions published by the FSF.

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

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

part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

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

#### 1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by combining the Runtime Library with Independent Modules, even if such propagation would otherwise violate the terms of GPLv3, provided that all Target Code was generated by Eligible Compilation Processes. You may then convey such a combination under terms of your choice, consistent with the licensing of the Independent Modules.

#### 2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

```
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{ } 2007 Free Software Foundation, Inc.
```

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```
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
@center Version 3, 29 June 2007

@c This file is intended to be included in another file.
```

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

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@end display

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Some devices are designed to deny users access to install or run

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

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

@heading TERMS AND CONDITIONS

@enumerate 0

@item Definitions.

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

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

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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.

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

such as by intimate data communication or control flow between those subprograms and other parts of the work.

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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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@item

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

@item

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

@item

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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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@item

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

@item

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

@item

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

@item

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



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

@item

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

@end enumerate

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

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

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

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@smallexample

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

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

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```
@c man end
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 1989, 1991 Free Software Foundation, Inc.
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```

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@page  
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@smallexample

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

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@end smallexample

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@smallexample

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details

type `show w'.

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under certain conditions; type `show c' for details.

@end smallexample

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

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@c man end  
@ignore  
@c Set file name and title for man page.  
@setfilename gfdl  
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Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

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

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

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@heading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end iftex

@ifinfo

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program

is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

@item

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

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

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

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

@item

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

@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program,

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

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

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

@item

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

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

@item

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

@item

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

@end enumerate

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any

associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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@end enumerate

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@heading END OF TERMS AND CONDITIONS

@end iftex

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@center END OF TERMS AND CONDITIONS

@end ifinfo



@page

@heading How to Apply These Terms to Your New Programs

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

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

@smallexample

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

Copyright (C) 19@var{yy} @var{name of author}

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

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

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307, USA.

@end smallexample

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

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

@smallexample

Gnomovision version 69, Copyright (C) 19@var{yy} @var{name of author}

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details

type `show w'. This is free software, and you are welcome

to redistribute it under certain conditions; type `show c'

for details.

@end smallexample

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

suits your program.

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

```
@smallexample
```

```
@group
```

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

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

```
Ty Coon, President of Vice
```

```
@end group
```

```
@end smallexample
```

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

```
@node Library Copying
```

```
@unnumbered GNU Lesser General Public License
```

```
@cindex LGPL, GNU Lesser General Public License
```

```
@center Version 2.1, February 1999
```

```
@display
```

```
Copyright @copyright{ } 1991, 1999 Free Software Foundation, Inc.  
59 Temple Place -- Suite 330, Boston, MA 02111-1307, USA
```

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[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.]

```
@end display
```

```
@heading Preamble
```

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software---to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

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

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

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

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

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser

General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

We call this license the `@dfn{Lesser}` General Public License because it does `@emph{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.

@item

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

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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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The modified work must itself be a software library.

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

@item

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

@item

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

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

@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of

this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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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.

@item

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

@item

A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

linked with it, is called a ``work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

@item

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

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

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Accompany the work with the complete corresponding



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

@item

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

@item

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

@item

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

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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.

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

@item

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

@end enumerate

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It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

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## 1.146 libgpg-error 1.12 :3.e17

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## 1.147 libgpg-error0 1.10 :r1

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If you develop a new program, and you want it to be of the greatest

possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

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

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

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

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

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

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

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

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

Ty Coon, President of Vice

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Version 3, 29 June 2007

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Version 2.1, February 1999

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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 such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

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

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## 1.150 liblzma5 5.1.1alpha :r0

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```

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## 1.154 libnfsidmap 0.24 :r0

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## 1.155 libnl 3.2.8 :r1

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\*  
\* \$FreeBSD: src/sys/net80211/ieee80211.h,v 1.10 2005/07/22 16:55:27 sam Exp \$  
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# 1.159 libpcre 8.21 :r1

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### THE BASIC LIBRARY FUNCTIONS

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

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# 1.162 libsemanage 2.1.10 :16.el7

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## 1.163 libsepol 2.1.9 :3.el7

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## 1.164 libsm 1.2.1 :r0

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# 1.167 libtasn1 3.8 :2.el7

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

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

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

```
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MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.
```

```
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```

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

```
<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.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands



might be different; for a GUI interface, you would use an "about box".

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# 1.169 libtasn1 3.3 :r0

## 1.169.1 Available under license :

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Version 3, 29 June 2007

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## 1.170 libtasn1/gplv3 3.3 :r0

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Version 3, 29 June 2007

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## 1.171 libtirpc 0.2.2 :r0

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## 1.172 libusb 1.0.8 :r4

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Version 2.1, February 1999

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# 1.174 libusb1 1.0.8 :r5

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

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

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- 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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## 1.176 libutempter 1.1.6 :4.el7

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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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## 1.177 libverto 0.2.5 :4.e17

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## 1.182 libxdmcp 1.1.1 :r0

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\*\*\*\*\*

\*

\* Private functions, types, etc. used for callback functions.

\*

\* The ref pointer is an opaque type and should remain as such.

```

* Private data must only be accessible through the getter and
* setter functions.
*
*****/
# libtool (GNU libtool) 2.4.2
# Written by Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996

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## 1.184 libxml2 2.7.8 :r8.8

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```
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```

```
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Ty Coon, President of Vice
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```

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## 1.189 Is of 4.85 :r1

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```
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# sort_res.perl5 - Script to group & sort lsof output by resource
#
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## 1.194 make 3.82 :21.e17

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Modemu Version 0.0.1

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# This is a sorted list of awesome people who have contributed in some

# way or the other to the Monit project over the years

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Version 3, 19 November 2007

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jpg "Clone me," says Dolly sheepishly.

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3. [3]Viraj Bais <vbais@mailman1.intel.com> and [4]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
4. [5]Michael Barone <michael,barone@lmco.com> GPSVME fixes
5. [6]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
6. [7]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
7. [8]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
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14. [15]Sven Dietrich <sven\_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
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\* Effort sponsored in part by the Defense Advanced Research Projects

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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 Intel's 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 <IxNpeDI.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_CRYPTACC_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 64 /* words */

```



```

#define MAX_OOP_SIZE 128

#define MAX_PARAMS 3

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;

#ifdef __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

#ifdef 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);
#if LINUX_VERSION_CODE >= KERNEL_VERSION(2,6,20)
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_decl sc_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);
    dprintk("%s,%d: EINVAL\n", __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_CRYPTACC_CIPHER_DES;
ixp->ixp_ctx.cipherCtx.cipherMode = IX_CRYPTACC_MODE_CBC;
ixp->ixp_ctx.cipherCtx.cipherKeyLen = (cri->cri_klen + 7) / 8;
ixp->ixp_ctx.cipherCtx.cipherBlockLen = IX_CRYPTACC_DES_BLOCK_64;
ixp->ixp_ctx.cipherCtx.cipherInitialVectorLen =
IX_CRYPTACC_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_CRYPTACC_CIPHER_3DES;
ixp->ixp_ctx.cipherCtx.cipherMode = IX_CRYPTACC_MODE_CBC;
ixp->ixp_ctx.cipherCtx.cipherKeyLen = (cri->cri_klen + 7) / 8;
ixp->ixp_ctx.cipherCtx.cipherBlockLen = IX_CRYPTACC_DES_BLOCK_64;
ixp->ixp_ctx.cipherCtx.cipherInitialVectorLen =
IX_CRYPTACC_DES_IV_64;
memcpy(ixp->ixp_ctx.cipherCtx.key.cipherKey,
cri->cri_key, (cri->cri_klen + 7) / 8);
break;

case CRYPTO_RIJNDAEL128_CBC:
ixp->ixp_cipher_alg = cri->cri_alg;
ixp->ixp_ctx.cipherCtx.cipherAlgo = IX_CRYPTACC_CIPHER_AES;
ixp->ixp_ctx.cipherCtx.cipherMode = IX_CRYPTACC_MODE_CBC;
ixp->ixp_ctx.cipherCtx.cipherKeyLen = (cri->cri_klen + 7) / 8;
ixp->ixp_ctx.cipherCtx.cipherBlockLen = 16;
ixp->ixp_ctx.cipherCtx.cipherInitialVectorLen = 16;
memcpy(ixp->ixp_ctx.cipherCtx.key.cipherKey,
cri->cri_key, (cri->cri_klen + 7) / 8);
break;

case CRYPTO_MD5:
case CRYPTO_MD5_HMAC:
ixp->ixp_auth_alg = cri->cri_alg;
ixp->ixp_ctx.authCtx.authAlgo = IX_CRYPTACC_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);
}
break;

case CRYPTO_SHA1:
case CRYPTO_SHA1_HMAC:
ixp->ixp_auth_alg = cri->cri_alg;
ixp->ixp_ctx.authCtx.authAlgo = IX_CRYPTACC_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;

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) {
        dprintk("%s,%d: EINVAL\n", __FILE__, __LINE__);
        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,
    IxCryptoAccStatus 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;

dprintk("%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_ccrd->crd_inject,
                ixp->ixp_ctx.cipherCtx.cipherInitialVectorLen,
                (caddr_t) q->ixp_q_iv);
        } else {
            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;
                crypto_copydata(q->ixp_q_crp->crp_flags, q->ixp_q_crp->crp_buf,
                    q->ixp_q_ccrd->crd_inject,
                    ixp->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_ccrd->crd_skip;
    crypt_len = q->ixp_q_ccrd->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_crp->crp_flags & CRYPTO_F_SKBUF) {
    struct sk_buff *skb = (struct sk_buff *) q->ixp_q_crp->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_crp->crp_etype = 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_crp->crp_flags & CRYPTO_F_IOV) {
    struct uio *uiop = (struct uio *) q->ixp_q_crp->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
         */
        printk("ixp: Cannot handle more than 1 iovec yet !\n");
        q->ixp_q_crp->crp_etype = ENOENT;
        goto done;
    }
    IX_MBUF_MLEN(&q->ixp_q_mbuf) =
        IX_MBUF_PKT_LEN(&q->ixp_q_mbuf) = uiop->uio_iov[0].iov_len;
    IX_MBUF_MDATA(&q->ixp_q_mbuf) = uiop->uio_iov[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_CRYPT_ACC_STATUS_SUCCESS == status)
    return;

if (IX_CRYPT_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;

    dprintk("%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_CRYPTACC_STATUS_WAIT == status) {
    /* this is normal to free the first of two buffers */
    dprintk("ixp: register not finished yet.\n");
    return;
}

if (IX_CRYPTACC_STATUS_SUCCESS != status) {
    printk("ixp: register failed 0x%x\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 = EINVAL;
        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,
    IxCryptoAccStatus 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_CRYPTOPROV_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);
}

/*
 * registration is not callable at IRQ time, so we defer
 * to a task queue, this routine completes the registration for us
 * when the task queue runs
 *
 * Unfortunately this means we cannot tell OCF that the driver is blocked,
 * we do that on the next request.
 */

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_CRYPTOP_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);
}
}

#ifdef 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;

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

    /* Sanity check */
    if (crp == NULL) {

```

```

dprintk("%s,%d: EINVAL\n", __FILE__, __LINE__);
return EINVAL;
}

crp->crp_etype = 0;

if (ixp_blocked)
return ERESTART;

if (crp->crp_desc == NULL || crp->crp_buf == NULL) {
dprintk("%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;
dprintk("%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)) {
    dprintk("%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) and 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()\n", __FUNCTION__);

```

```

if (bits > MAX_IOP_SIZE * sizeof(UINT32) * 8) {
    dprintk("%s - ibuf too big (%d > %d)\n", __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++;
    bits -= 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) {
    dprintf("%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,
    IxCryptoAccStatus status)
{
    struct ixp_pkq *q, *tmp;
    unsigned long flags;

```

```

dprintk("%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) {
            dprintk("%s() - op failed 0x%x\n", __FUNCTION__, status);
            q->pkq_krp->krp_status = ERANGE; /* could do better */
        } 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;
        }
        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;

    dprintk("%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_CRYPT0_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;

    dprintk("%s(%p, %d)\n", __FUNCTION__, buf, maxwords);
    memset(buf, 0, maxwords * sizeof(*buf));
    status = ixCryptoAccPkePseudoRandomNumberGet(maxwords, buf);
    if (status != IX_CRYPT0_ACC_STATUS_SUCCESS) {
        dprintk("%s: ixCryptoAccPkePseudoRandomNumberGet failed %d\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_CRYPT0_ACC_AUTH_SHA1,
            (UINT8 *) &buf[i], n, ixp_hash_cb, sha_digest);
        if (status != IX_CRYPT0_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_CRYPTOCAP_F_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
);
if (!qcache) {
printk("failed to create Qcache\n");
return -ENOENT;
}

memset(&ixpdev, 0, sizeof(ixpdev));
softc_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;
}

static void
ixp_exit(void)
{
dprintk("%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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```

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\* Driver for the PA Semi PWRficient DMA Crypto Engine

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\*/

/\* \$KAME: md5.c,v 1.5 2000/11/08 06:13:08 itojun Exp \$ \*/

/\*

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- \* Effort sponsored in part by the Defense Advanced Research Projects
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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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## 1.223 openldap 2.4.16

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Motorolla 68020 20mhz, NetBSD

SSLey 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.

type	8 bytes	64 bytes	256 bytes	1024 bytes	8192 bytes
md2	2176.00	5994.67	8079.73	8845.18	9077.01
mdc2	5730.67	6122.67	6167.66	6176.51	6174.87
md5	29.10k	127.31k	209.66k	250.50k	263.99k
hmac(md5)	12.33k	73.02k	160.17k	228.04k	261.15k
sha1	11.27k	49.37k	84.31k	102.40k	109.23k
rmd160	11.69k	48.62k	78.76k	93.15k	98.41k
rc4	117.96k	148.94k	152.57k	153.09k	152.92k
des cbc	27.13k	30.06k	30.38k	30.38k	30.53k

des ede3	10.51k	10.94k	11.01k	11.01k	11.01k
idea cbc	26.74k	29.23k	29.45k	29.60k	29.74k
rc2 cbc	34.27k	39.39k	40.03k	40.07k	40.16k
rc5-32/12 cbc	64.31k	83.18k	85.70k	86.70k	87.09k
blowfish cbc	48.86k	59.18k	60.07k	60.42k	60.78k
cast cbc	42.67k	50.01k	50.86k	51.20k	51.37k

sign verify sign/s verify/s

rsa 512 bits	0.7738s	0.0774s	1.3	12.9
rsa 1024 bits	4.3967s	0.2615s	0.2	3.8
rsa 2048 bits	29.5200s	0.9664s	0.0	1.0

sign verify sign/s verify/s

dsa 512 bits	0.7862s	0.9709s	1.3	1.0
dsa 1024 bits	2.5375s	3.1625s	0.4	0.3
dsa 2048 bits	9.2150s	11.8200s	0.1	0.1

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,risc 1,16,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.

type	8 bytes	64 bytes	256 bytes	1024 bytes	8192 bytes
md2	130.99k	367.68k	499.09k	547.04k	566.50k
md5	1924.98k	8293.50k	13464.41k	16010.39k	16820.68k
sha	1250.75k	5330.43k	8636.88k	10227.36k	10779.14k
sha1	1071.55k	4572.50k	7459.98k	8791.96k	9341.61k
rc4	10724.22k	14546.25k	15240.18k	15259.50k	15265.63k
des cbc	3309.11k	3883.01k	3968.25k	3971.86k	3979.14k
des ede3	1442.98k	1548.33k	1562.48k	1562.00k	1563.33k
idea cbc	2195.69k	2506.39k	2529.59k	2545.66k	2546.54k
rc2 cbc	806.00k	833.52k	837.58k	838.52k	836.69k
blowfish cbc	4687.34k	5949.97k	6182.43k	6248.11k	6226.09k
rsa 512 bits	0.010s				
rsa 1024 bits	0.045s				
rsa 2048 bits	0.260s				
rsa 4096 bits	1.690s				

## 1.230 openssl 1.0.1e :60.e17\_3.1

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## 1.231 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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```

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/* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL
* project.
* Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any
* size keys (Implemented RFC5649)
*/
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```

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```

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

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## 1.238 Paste 1.7.5.1 :0.0

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## 1.239 patch 2.6.1 :r1

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Version 3, 29 June 2007

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## 1.241 pcre 8.32 :14.e17

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THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

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## 1.243 Perl 5.14.2 :r9.4

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
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Copyright (C) 19yy <name of author>
```

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```

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

```
Gnomovision version 69, Copyright (C) 19xx name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program `Gnomovision' (a program to direct compilers to make passes  
at assemblers) written by James Hacker.
```

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

That's all there is to it!

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@page

@unnumberedsec How to Apply These Terms to Your New Programs

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

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

@smallexample

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

Copyright (C) 19@var{yy} @var{name of author}

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

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

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307, USA.

@end smallexample

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

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

```
@smallexample
Gnomovision version 69, Copyright (C) 19@var{yy} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
type `show w'. This is free software, and you are welcome
to redistribute it under certain conditions; type `show c'
for details.
@end smallexample
```

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

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

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

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

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

## 1.245 pkgconfig 0.27.1 :4.e17

### 1.245.1 Available under license :

GNU GENERAL PUBLIC LICENSE  
Version 2, June 1991

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## Preamble

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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 this service 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 make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. 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.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

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

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

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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

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- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively

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

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

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

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

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

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

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you



received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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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#### How to Apply These Terms to Your New Programs

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

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

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

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

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

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

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

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

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

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

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

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

```
GNU LIBRARY GENERAL PUBLIC LICENSE
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.]

#### Preamble

The licenses for most software are designed to take away your  
freedom to share and change it. By contrast, the GNU General Public  
Licenses are intended to guarantee your freedom to share and change  
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your libraries, 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  
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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 make restrictions that forbid  
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These restrictions translate to certain responsibilities for you if  
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For example, if you distribute copies of the library, whether gratis  
or for a fee, you must give the recipients all the rights that we gave  
you. You must make sure that they, too, receive or can get the source  
code. If you link a program with the library, you must provide  
complete object files to the recipients so that they can relink them  
with the library, after making changes to the library and recompiling  
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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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

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

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

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

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

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

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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



3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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## 1.250 ppp 2.4.5

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```
/*
```

```
* ccp.c - PPP Compression Control Protocol.
```

```
*
```

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*
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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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/\*

\* passprompt.c - pppd plugin to invoke an external PAP password prompter

\*

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Unix SMB/CIFS implementation.

trivial database library

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/* pppoatm.c - pppd plugin to implement PPPoATM protocol.
```

```
*
```

```
* Copyright 2000 Mitchell Blank Jr.
```

```
* Based in part on work from Jens Axboe and Paul Mackerras.
```

```
* 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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Version 2.1, February 1999

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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 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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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.

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

That's all there is to it!

# 1.251 prettytable 0.7.2

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```

# 1.252 procps 3.2.8 :r12

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```

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```

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# 1.253 procps-ng 3.3.10 :3.el7

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## 1.254 psmisc 22.16 :r2

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```

```
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it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
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```

```
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Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
```

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```
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```

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

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## 1.255 pth 2.0.7

### 1.255.1 Available under license :

```
-----  
| _\|||_|   ``Ian Fleming was a UNIX fan!  
| | )|_|' _\   How do I know? Well, James Bond  
| _/||| |    had the (license to kill) number 007,  
| | \_|_|_|   i.e., he could execute anyone!"
```

GNU Pth - The GNU Portable Threads

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=====

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---

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# 1.256 pugixml 1.4

## 1.256.1 Available under license :

pugixml 1.4 - an XML processing library

Copyright (C) 2006-2014, by Arseny Kapoulkine (arseny.kapoulkine@gmail.com)

Report bugs and download new versions at <http://pugixml.org/>

This is the distribution of pugixml, which is a C++ XML processing library, which consists of a DOM-like interface with rich traversal/modification capabilities, an extremely fast XML parser which constructs the DOM tree from an XML file/buffer, and an XPath 1.0 implementation for complex data-driven tree queries. Full Unicode support is also available, with Unicode interface variants and conversions between different Unicode encodings (which happen automatically during parsing/saving).

The distribution contains the following folders:

contrib/ - various contributions to pugixml

docs/ - documentation

docs/samples - pugixml usage examples

docs/quickstart.html - quick start guide

docs/manual.html - complete manual

scripts/ - project files for IDE/build systems

src/ - header and source files

readme.txt - this file.

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## 1.257 pygpgme 0.3 :9.el7

### 1.257.1 Available under license :

From RPM File Metadata: LGPLv2+

## 1.258 pyliblzma 0.5.3 :11.el7

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Version 3, 29 June 2007

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

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes

2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
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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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2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes

2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.3, July 18th, 2005

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Jean-loup Gailly      Mark Adler  
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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

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## 1.261 python-argparse 1.2.1 :r1

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#### History

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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

#### A. HISTORY OF THE SOFTWARE

=====

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

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

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

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

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

2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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## 1.262 python-async 0.6.1 :r0

### 1.262.1 Available under license :

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](mailto: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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2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
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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# 1.264 python-iniparse 0.4 :9.e17

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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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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes

2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes

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

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes

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## 1.271 python-pip 1.5.6 :r0

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# 1.272 python-pycurl 7.19.0 :r3

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## 1.273 python-pycurl 7.19.0 :17.el7

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## 1.274 python-pycurl 7.19.0 :r2

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## 1.275 python-setuptools 0.6c11 :ml3.1

## 1.276 python-setuptools 0.6c11 :ml5

### 1.276.1 Available under license :

Metadata-Version: 1.0

Name: setuptools

Version: 0.6c11

Summary: Download, build, install, upgrade, and uninstall Python packages -- easily!

Home-page: <http://pypi.python.org/pypi/setuptools>

Author: Phillip J. Eby

Author-email: [distutils-sig@python.org](mailto:distutils-sig@python.org)

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# 1.277 python-smartpm 1.4.1 :r12

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## 1.278 python-urlgrabber 3.9.1 :r1

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

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

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

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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

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## 1.280 python\_GPLv3 2.7.5 :16.e17

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Version 3, 29 June 2007

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## 1.281 pyxattr 0.5.1 :5.e17

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

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

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

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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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## 1.283 readline 6.2 :r2

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```

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

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

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

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

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

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

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

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#### END OF TERMS AND CONDITIONS

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```
<one line to give the library's name and a brief idea of what it does.>  
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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

## 1.289 rsh 0.17 :0.0

### 1.289.1 Available under license :

/\*

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\*

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\*/



This package was split from netstd by Herbert Xu herbert@debian.org on Sun, 5 Sep 1999 19:10:07 +1000.

netstd was created by Peter Tobias tobias@et-inf.fho-emden.de on Wed, 20 Jul 1994 17:23:21 +0200.

It was downloaded from ftp://ftp.uk.linux.org/pub/linux/Networking/netkit/.

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# 1.290 rsyslog 7.4.7 :7.el7\_0

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Version 3, 29 June 2007

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

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

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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.

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## 1.291 run-postinsts 1.0 :r9

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## 1.292 sed 4.2.1 :r5

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## 1.293 sed 4.2.2 :5.e17

### 1.293.1 Available under license :

=====

Test 1.1:101

=====

Testing argument parsing

First type

e1\_11\_1

e1\_11\_1

e1\_11\_2

e1\_11\_2

e1\_11\_3

e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5  
e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
e1\_11\_7  
e1\_11\_8  
e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10  
e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14

=====

Test 1.2:102

=====

e1\_11\_1  
e1\_11\_2  
e1\_11\_3  
e1\_11\_4  
e1\_11\_5  
e1\_11\_6  
e1\_11\_7  
e1\_11\_8  
e1\_11\_9  
e1\_11\_10  
e1\_11\_11  
e1\_11\_12  
e1\_11\_13  
e1\_11\_14

=====

Test 1.3:103

=====

e1\_11\_1  
e1\_11\_1  
e1\_11\_2

e1\_11\_2  
e1\_11\_3  
e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5  
e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
e1\_11\_7  
e1\_11\_8  
e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10  
e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14

=====

Test 1.4:104

=====

e1\_11\_1  
e1\_11\_2  
e1\_11\_3  
e1\_11\_4  
e1\_11\_5  
e1\_11\_6  
e1\_11\_7  
e1\_11\_8  
e1\_11\_9  
e1\_11\_10  
e1\_11\_11  
e1\_11\_12  
e1\_11\_13  
e1\_11\_14

Second type

=====

Test 1.4.1:105

=====

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 1.5:106

=====

s1\_l1\_1  
s1\_l1\_1  
s1\_l1\_2  
s1\_l1\_2  
s1\_l1\_3  
s1\_l1\_3  
s1\_l1\_4  
s1\_l1\_4  
s1\_l1\_5  
s1\_l1\_5  
s1\_l1\_6  
s1\_l1\_6  
s1\_l1\_7  
s1\_l1\_7  
s1\_l1\_8  
s1\_l1\_8  
s1\_l1\_9  
s1\_l1\_9  
s1\_l1\_10  
s1\_l1\_10  
s1\_l1\_11  
s1\_l1\_11  
s1\_l1\_12  
s1\_l1\_12  
s1\_l1\_13  
s1\_l1\_13  
s1\_l1\_14  
s1\_l1\_14

=====

Test 1.6:107

=====

s1\_11\_1  
s1\_11\_1  
s1\_11\_2  
s1\_11\_2  
s1\_11\_3  
s1\_11\_3  
s1\_11\_4  
s1\_11\_4  
s1\_11\_5  
s1\_11\_5  
s1\_11\_6  
s1\_11\_6  
s1\_11\_7  
s1\_11\_7  
s1\_11\_8  
s1\_11\_8  
s1\_11\_9  
s1\_11\_9  
s1\_11\_10  
s1\_11\_10  
s1\_11\_11  
s1\_11\_11  
s1\_11\_12  
s1\_11\_12  
s1\_11\_13  
s1\_11\_13  
s1\_11\_14  
s1\_11\_14

=====

Test 1.7:108

=====

e1\_11\_1  
e1\_11\_1  
e1\_11\_2  
e1\_11\_2  
e1\_11\_3  
e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5  
e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
e1\_11\_7

e1\_11\_8  
e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10  
e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14

=====

Test 1.8:109

=====

e1\_11\_1  
e1\_11\_1  
e1\_11\_2  
e1\_11\_2  
e1\_11\_3  
e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5  
e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
e1\_11\_7  
e1\_11\_8  
e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10  
e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14

=====



Test 1.9:110

=====

s1\_11\_1  
s1\_11\_2  
s1\_11\_3  
s1\_11\_4  
s1\_11\_5  
s1\_11\_6  
s1\_11\_7  
s1\_11\_8  
s1\_11\_9  
s1\_11\_10  
s1\_11\_11  
s1\_11\_12  
s1\_11\_13  
s1\_11\_14

=====

Test 1.10:111

=====

s1\_11\_1  
s1\_11\_2  
s1\_11\_3  
s1\_11\_4  
s1\_11\_5  
s1\_11\_6  
s1\_11\_7  
s1\_11\_8  
s1\_11\_9  
s1\_11\_10  
s1\_11\_11  
s1\_11\_12  
s1\_11\_13  
s1\_11\_14

=====

Test 1.11:112

=====

e1\_11\_1  
e1\_11\_2  
e1\_11\_3  
e1\_11\_4  
e1\_11\_5  
e1\_11\_6  
e1\_11\_7  
e1\_11\_8  
e1\_11\_9  
e1\_11\_10

e1\_11\_11  
e1\_11\_12  
e1\_11\_13  
e1\_11\_14

=====

Test 1.12:113

=====

e1\_11\_1  
e1\_11\_2  
e1\_11\_3  
e1\_11\_4  
e1\_11\_5  
e1\_11\_6  
e1\_11\_7  
e1\_11\_8  
e1\_11\_9  
e1\_11\_10  
e1\_11\_11  
e1\_11\_12  
e1\_11\_13  
e1\_11\_14

=====

Test 1.13:114

=====

e1\_11\_1  
e2\_e1\_11\_1  
e2\_e1\_11\_1  
e1\_11\_2  
e2\_e1\_11\_2  
e2\_e1\_11\_2  
e1\_11\_3  
e2\_e1\_11\_3  
e2\_e1\_11\_3  
e1\_11\_4  
e2\_e1\_11\_4  
e2\_e1\_11\_4  
e1\_11\_5  
e2\_e1\_11\_5  
e2\_e1\_11\_5  
e1\_11\_6  
e2\_e1\_11\_6  
e2\_e1\_11\_6  
e1\_11\_7  
e2\_e1\_11\_7  
e2\_e1\_11\_7  
e1\_11\_8

e2\_e1\_11\_8  
e2\_e1\_11\_8  
e1\_11\_9  
e2\_e1\_11\_9  
e2\_e1\_11\_9  
e1\_11\_10  
e2\_e1\_11\_10  
e2\_e1\_11\_10  
e1\_11\_11  
e2\_e1\_11\_11  
e2\_e1\_11\_11  
e1\_11\_12  
e2\_e1\_11\_12  
e2\_e1\_11\_12  
e1\_11\_13  
e2\_e1\_11\_13  
e2\_e1\_11\_13  
e1\_11\_14  
e2\_e1\_11\_14  
e2\_e1\_11\_14

=====

Test 1.14:115

=====

s1\_11\_1  
s2\_s1\_11\_1  
s2\_s1\_11\_1  
s1\_11\_2  
s2\_s1\_11\_2  
s2\_s1\_11\_2  
s1\_11\_3  
s2\_s1\_11\_3  
s2\_s1\_11\_3  
s1\_11\_4  
s2\_s1\_11\_4  
s2\_s1\_11\_4  
s1\_11\_5  
s2\_s1\_11\_5  
s2\_s1\_11\_5  
s1\_11\_6  
s2\_s1\_11\_6  
s2\_s1\_11\_6  
s1\_11\_7  
s2\_s1\_11\_7  
s2\_s1\_11\_7  
s1\_11\_8  
s2\_s1\_11\_8  
s2\_s1\_11\_8

s1\_11\_9  
s2\_s1\_11\_9  
s2\_s1\_11\_9  
s1\_11\_10  
s2\_s1\_11\_10  
s2\_s1\_11\_10  
s1\_11\_11  
s2\_s1\_11\_11  
s2\_s1\_11\_11  
s1\_11\_12  
s2\_s1\_11\_12  
s2\_s1\_11\_12  
s1\_11\_13  
s2\_s1\_11\_13  
s2\_s1\_11\_13  
s1\_11\_14  
s2\_s1\_11\_14  
s2\_s1\_11\_14

=====

Test 1.15:116

=====

e1\_11\_1  
s1\_e1\_11\_1  
s1\_e1\_11\_1  
e1\_11\_2  
s1\_e1\_11\_2  
s1\_e1\_11\_2  
e1\_11\_3  
s1\_e1\_11\_3  
s1\_e1\_11\_3  
e1\_11\_4  
s1\_e1\_11\_4  
s1\_e1\_11\_4  
e1\_11\_5  
s1\_e1\_11\_5  
s1\_e1\_11\_5  
e1\_11\_6  
s1\_e1\_11\_6  
s1\_e1\_11\_6  
e1\_11\_7  
s1\_e1\_11\_7  
s1\_e1\_11\_7  
e1\_11\_8  
s1\_e1\_11\_8  
s1\_e1\_11\_8  
e1\_11\_9  
s1\_e1\_11\_9

s1\_e1\_11\_9  
e1\_11\_10  
s1\_e1\_11\_10  
s1\_e1\_11\_10  
e1\_11\_11  
s1\_e1\_11\_11  
s1\_e1\_11\_11  
e1\_11\_12  
s1\_e1\_11\_12  
s1\_e1\_11\_12  
e1\_11\_13  
s1\_e1\_11\_13  
s1\_e1\_11\_13  
e1\_11\_14  
s1\_e1\_11\_14  
s1\_e1\_11\_14

=====

Test 1.16:117

=====

e1\_11\_1  
e1\_11\_1  
e1\_11\_2  
e1\_11\_2  
e1\_11\_3  
e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5  
e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
e1\_11\_7  
e1\_11\_8  
e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10  
e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14

e1\_11\_1  
e1\_11\_1  
e1\_11\_2  
e1\_11\_2  
e1\_11\_3  
e1\_11\_3  
e1\_11\_4  
e1\_11\_4  
e1\_11\_5  
e1\_11\_5  
e1\_11\_6  
e1\_11\_6  
e1\_11\_7  
e1\_11\_7  
e1\_11\_8  
e1\_11\_8  
e1\_11\_9  
e1\_11\_9  
e1\_11\_10  
e1\_11\_10  
e1\_11\_11  
e1\_11\_11  
e1\_11\_12  
e1\_11\_12  
e1\_11\_13  
e1\_11\_13  
e1\_11\_14  
e1\_11\_14

=====

Test 1.17:118

=====

11\_1  
11\_1  
11\_2  
11\_2  
11\_3  
11\_3  
11\_4  
11\_4  
11\_5  
11\_5  
11\_6  
11\_6  
11\_7  
11\_7  
11\_8  
11\_8

11\_9  
11\_9  
11\_10  
11\_10  
11\_11  
11\_11  
11\_12  
11\_12  
11\_13  
11\_13  
11\_14  
11\_14

=====

Test 1.18:119

=====

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

Testing address ranges

=====

Test 2.1:120

=====

11\_4

=====

Test 2.2:121

=====

12\_6

=====

Test 2.3:122

=====

11\_14

=====

Test 2.4:123

=====

12\_9

=====

Test 2.5:124

=====

=====

Test 2.6:125

=====

12\_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  
12\_1  
12\_2  
12\_3  
12\_4  
12\_5  
12\_6  
12\_7  
12\_8  
12\_9

=====

Test 2.14:132

=====

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  
12\_1  
12\_2  
12\_3  
12\_4  
12\_5  
12\_6  
12\_7  
12\_8  
12\_9

=====

Test 2.15:133

=====

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  
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  
12\_6  
12\_7  
12\_8  
12\_9

=====  
Test 2.18:136

=====  
12\_3  
12\_4  
12\_5  
12\_6  
12\_7  
12\_8  
12\_9

=====  
Test 2.19:137

=====  
11\_12

=====  
Test 2.20:138

=====  
11\_7  
Brace and other grouping

=====  
Test 3.1:139

=====  
11\_1  
11\_2  
11\_3  
^11T4\$  
^11T5\$  
^11T6\$  
^11T7\$

^11T8\$  
^11T9\$  
^11T10\$  
^11T11\$  
^11T12\$  
11\_13  
11\_14

=====  
Test 3.2:140  
=====

11\_1  
11\_2  
11\_3  
^11\_4  
^11\_5  
^11\_6\$  
^11\_7\$  
^11T8\$  
^11\_9\$  
^11\_10\$  
^11\_11  
^11\_12  
11\_13  
11\_14

=====  
Test 3.3:141  
=====

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

=====  
Test 3.4:142  
=====

^11\_1

^i1\_2  
^i1\_3  
i1\_4  
i1\_5  
i1\_6  
i1\_7  
i1\_8  
i1\_9  
i1\_10  
i1\_11  
i1\_12  
^i1\_13  
^i1\_14

Testing a c d and i commands

=====

Test 4.1:143

=====

before\_i1\_1  
after\_ibefore\_i1\_1  
before\_i1\_2  
after\_ibefore\_i1\_2  
before\_i1\_3  
after\_ibefore\_i1\_3  
before\_i1\_4  
after\_ibefore\_i1\_4  
before\_i1\_5  
after\_ibefore\_i1\_5  
before\_i1\_6  
after\_ibefore\_i1\_6  
before\_i1\_7  
after\_ibefore\_i1\_7  
before\_i1\_8  
after\_ibefore\_i1\_8  
before\_i1\_9  
after\_ibefore\_i1\_9  
before\_i1\_10  
after\_ibefore\_i1\_10  
before\_i1\_11  
after\_ibefore\_i1\_11  
before\_i1\_12  
after\_ibefore\_i1\_12  
before\_i1\_13  
after\_ibefore\_i1\_13  
before\_i1\_14  
after\_ibefore\_i1\_14  
before\_i2\_1  
after\_ibefore\_i2\_1

before\_il2\_2  
after\_ibefore\_il2\_2  
before\_il2\_3  
after\_ibefore\_il2\_3  
before\_il2\_4  
after\_ibefore\_il2\_4  
before\_il2\_5  
after\_ibefore\_il2\_5  
before\_il2\_6  
inserted  
after\_ibefore\_il2\_6  
before\_il2\_7  
after\_ibefore\_il2\_7  
before\_il2\_8  
after\_ibefore\_il2\_8  
before\_il2\_9  
after\_ibefore\_il2\_9

=====

Test 4.2:144

=====

before\_al1\_1  
after\_abefore\_al1\_1  
before\_al1\_2  
after\_abefore\_al1\_2  
before\_al1\_3  
after\_abefore\_al1\_3  
before\_al1\_4  
after\_abefore\_al1\_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\_al1\_13  
after\_abefore\_al1\_13  
before\_al1\_14  
after\_abefore\_al1\_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

=====

^11\_1  
^11\_1\$  
appended  
^11\_2  
^11\_2\$  
appended  
^11\_3  
^11\_3\$  
appended  
^11\_4  
^11\_4\$  
appended  
^11\_5  
^11\_5\$  
appended  
^11\_6  
^11\_6\$

appended

^11\_7

^11\_7\$

appended

^11\_8

appended

^11\_8

11\_9\$

^11\_10

appended

^11\_10

11\_11\$

^11\_12

^11\_12\$

appended

^11\_13

^11\_13\$

appended

^11\_14

^11\_14\$

appended

^12\_1

^12\_1\$

^12\_2

^12\_2\$

^12\_3

^12\_3\$

^12\_4

^12\_4\$

^12\_5

^12\_5\$

^12\_6

^12\_6\$

^12\_7

^12\_7\$

^12\_8

^12\_8\$

^12\_9

^12\_9\$

=====

Test 4.4:146

=====

hello

hello

hello

hello

hello



hello  
hello  
hello  
hello  
hello  
hello  
hello  
hello  
hello

=====  
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\_6\$  
l1\_7\$  
l1\_8\$

=====  
Test 5.4:154

=====  
^l1\_1\$  
^l1\_2\$  
^l1\_3\$  
^l1\_4\$  
^l1\_5\$  
^l1\_6\$  
^l1\_7\$  
^l1\_8\$

11\_9\$  
11\_10\$  
11\_11\$  
11\_12\$  
11\_13\$  
11\_14\$

=====  
Test 5.5:155

=====  
^11\_1  
^11\_2  
^11\_4  
^11\_6  
^11\_8

=====  
Test 5.6:156

=====  
11\_1  
11\_2  
11\_3  
11\_4  
11\_5

=====  
Test 5.7:157

=====  
11\_1  
11\_2  
11\_3  
11\_4  
hello  
11\_5

=====  
Test 5.8:158

=====  
m1\_1  
m1\_2  
m1\_3  
m1\_4  
m1\_5  
m1\_6  
m1\_7  
m1\_8  
m1\_9  
m1\_10

m1\_11

m1\_12

m1\_13

m1\_14

Pattern space commands

=====

Test 6.1:159

=====

changed

changed

changed

changed

changed

changed

changed

changed

changed

changed

changed

changed

changed

changed

=====

Test 6.2:160

=====

l1\_1

l1\_2

l1\_3

l1\_5

l1\_6

l1\_7

l1\_8

l1\_9

l1\_10

l1\_11

l1\_12

l1\_13

l1\_14

=====

Test 6.3:161

=====

l1\_5

l1\_6

l1\_7

l1\_8

11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====

Test 6.4:162

=====

11\_1  
11\_2  
11\_3  
11\_2  
11\_3  
11\_5  
11\_2  
11\_3  
11\_2  
11\_3  
11\_6  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====

Test 6.5:163

=====

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

=====

Test 6.6:164

=====

Testing print and file routines

=====

Test 7.1:165

=====

```

\001\002\003\004\005\006\a\b\t$
\v\fr\016\017\020\021\022\023\024\025\026\027\030\031\032\033\034\
\035\036\037 !"#$$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNQRSTUUVWX\
YZ[\]^_`abcdefghijklmnopqrstuvwxy{|}~\177\200\201\202\203\204\205\
\206\207\210\211\212\213\214\215\216\217\220\221\222\223\224\225\226\
\227\230\231\232\233\234\235\236\237\240\241\242\243\244\245\246\247\
\250\251\252\253\254\255\256\257\260\261\262\263\264\265\266\267\270\
\271\272\273\274\275\276\277\300\301\302\303\304\305\306\307\310\311\
\312\313\314\315\316\317\320\321\322\323\324\325\326\327\330\331\332\
\333\334\335\336\337\340\341\342\343\344\345\346\347\350\351\352\353\
\354\355\356\357\360\361\362\363\364\365\366\367\370\371\372\373\374\
\375\376\377$
$

```

=====

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  
12\_9

=====  
Test 7.3:167

=====  
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

w results

11\_3  
11\_4  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12

=====  
Test 7.4:168

=====  
11\_1  
11\_2  
11\_3  
11\_4  
12\_1

12\_2  
12\_3  
12\_4  
12\_5  
12\_6  
12\_7  
12\_8  
12\_9  
11\_5  
11\_6  
11\_7  
11\_8  
11\_9  
11\_10  
11\_11  
11\_12  
11\_13  
11\_14

=====

Test 7.5:169

=====

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

=====

Test 7.6:170

=====

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

=====  
Test 7.8:171  
=====

Testing substitution commands

=====  
Test 8.1:172  
=====

XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXXX  
XXXXX  
XXXXX  
XXXXX  
XXXXX

=====  
Test 8.2:173  
=====

XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXXX  
XXXXX  
XXXXX  
XXXXX  
XXXXX

=====  
Test 8.3:174

=====  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXX  
XXXXX  
XXXXX  
XXXXX  
XXXXX  
XXXXX

=====  
Test 8.4:175

=====  
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

=====  
Test 8.5:176

=====  
11X1  
11X2  
11X3  
11X4  
11X5  
11X6  
11X7  
11X8

11X9  
11X10  
11X11  
11X12  
11X13  
11X14

=====

Test 8.6:177

=====

(1)(1)(\_(1)  
(1)(1)(\_(2)  
(1)(1)(\_(3)  
(1)(1)(\_(4)  
(1)(1)(\_(5)  
(1)(1)(\_(6)  
(1)(1)(\_(7)  
(1)(1)(\_(8)  
(1)(1)(\_(9)  
(1)(1)(\_(1)(0)  
(1)(1)(\_(1)(1)  
(1)(1)(\_(1)(2)  
(1)(1)(\_(1)(3)  
(1)(1)(\_(1)(4)

=====

Test 8.7:178

=====

(&)(&)(&)(&  
(&)(&)(&)(&  
(&)(&)(&)(&  
(&)(&)(&)(&  
(&)(&)(&)(&  
(&)(&)(&)(&  
(&)(&)(&)(&  
(&)(&)(&)(&  
(&)(&)(&)(&  
(&)(&)(&)(&)(&  
(&)(&)(&)(&)(&  
(&)(&)(&)(&)(&  
(&)(&)(&)(&)(&  
(&)(&)(&)(&)(&  
(&)(&)(&)(&)(&

=====

Test 8.8:179

=====

x\_x1x11  
x\_x1x12

x\_x1x13  
x\_x1x14  
x\_x1x15  
x\_x1x16  
x\_x1x17  
x\_x1x18  
x\_x1x19  
x\_x1x110  
x\_x1x111  
x\_x1x112  
x\_x1x113  
x\_x1x114

=====

Test 8.9:180

=====

11u0

u1

u21

11u0

u1

u22

11u0

u1

u23

11u0

u1

u24

11u0

u1

u25

11u0

u1

u26

11u0

u1

u27

11u0

u1

u28

11u0

u1

u29

11u0

u1

u210

11u0

u1

u211  
l1u0  
u1  
u212  
l1u0  
u1  
u213  
l1u0  
u1  
u214

=====

Test 8.10:181

=====

l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X  
l1\_X0  
l1\_X1  
l1\_X2  
l1\_X3  
l1\_X4

=====

Test 8.11:182

=====

lX\_1  
lX\_2  
lX\_3  
lX\_4  
lX\_5  
lX\_6  
lX\_7  
lX\_8  
lX\_9  
lX\_10  
lX\_11  
lX\_12  
lX\_13  
lX\_14  
s wfile results  
lX\_1

IX\_2  
IX\_3  
IX\_4  
IX\_5  
IX\_6  
IX\_7  
IX\_8  
IX\_9  
IX\_10  
IX\_11  
IX\_12  
IX\_13  
IX\_14

=====  
Test 8.12:183

=====  
IX\_X  
IX\_X  
IX\_X  
IX\_4  
IX\_5  
IX\_6  
IX\_7  
IX\_8  
IX\_9  
IX\_X0  
IX\_XX  
IX\_XX  
IX\_XX  
IX\_X4

=====  
Test 8.13:184

=====  
18\_8  
18\_7  
18\_6  
18\_5  
18\_4  
18\_3  
18\_2  
18\_1  
18\_0  
18\_89  
18\_88  
18\_87  
18\_86

18\_85

=====  
Test 8.14:185

=====  
18\_8  
18\_7  
18\_6  
18\_5  
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

=====  
eefff  
Xefff  
XYeff  
XYeYff  
XYeYYf  
XYeYYY  
XYeYYY

=====  
Test 8.17:188  
=====

&&&&  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&  
&&&&&  
&&&&&  
&&&&&  
&&&&&  
&&&&&

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Version 3, 29 June 2007

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```
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```

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#define SETSERIAL_DATE "27-Jan-2000"
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## 1.303 simple-jsonrpc 0.3.4

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## 1.313 sysklogd 1.5 :r13

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```

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Send patches to `sysvinit-devel@nongnu.org`

The of the start-stop-daemon

- \* A rewrite of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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## 1.316 sysvinit 2.88dsf

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The of the start-stop-daemon

- \* A rewrite of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <[marekm@i17linuxb.ists.pwr.wroc.pl](mailto:marekm@i17linuxb.ists.pwr.wroc.pl)>,
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# 1.317 sysvinit-inittab 2.88dsf :r14

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```
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under certain conditions; type `show c' for details.
```

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## 1.320 tcf-agent 0.4.0 :r1

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\* Wind River Systems - initial API and implementation

\*\*\*\*\*/

/\*

\* This file contains "define" statements that control agent configuration.

\* SERVICE\_\* definitions control which service implementations are included into the agent.

\*/

#ifndef D\_config

#define D\_config

#include <framework/mdep.h>

#if defined(WIN32)

# define TARGET\_WINDOWS 1

# define TARGET\_VXWORKS 0

# define TARGET\_UNIX 0

# if defined(\_MSC\_VER)

# define TARGET\_MSVC 1

# else

# define TARGET\_MSVC 0

# endif

# define TARGET\_BSD 0

# define TARGET\_SYMBIAN 0

#elif defined(\_WRS\_KERNEL)

# define TARGET\_WINDOWS 0

# define TARGET\_VXWORKS 1

# define TARGET\_UNIX 0

# define TARGET\_MSVC 0

# define TARGET\_BSD 0

# define TARGET\_SYMBIAN 0

#elif defined(\_\_SYMBIAN32\_\_)

# define TARGET\_WINDOWS 0

# define TARGET\_VXWORKS 0

# define TARGET\_UNIX 0

# define TARGET\_MSVC 0

# define TARGET\_BSD 0

# define TARGET\_SYMBIAN 1

#else

# define TARGET\_WINDOWS 0

# define TARGET\_VXWORKS 0

# define TARGET\_UNIX 1

# define TARGET\_MSVC 0

# if defined(\_\_FreeBSD\_\_) || defined(\_\_NetBSD\_\_)

# define TARGET\_BSD 1

# else

# define TARGET\_BSD 0

# endif

```

# define TARGET_SYMBIAN 0
#endif

#if !defined(SERVICE_Locator)
#define SERVICE_Locator (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS ||
TARGET_SYMBIAN)
#endif
#if !defined(SERVICE_RunControl)
#define SERVICE_RunControl (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS)
#endif
#if !defined(SERVICE_Breakpoints)
#define SERVICE_Breakpoints (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS)
#endif
#if !defined(SERVICE_Memory)
#define SERVICE_Memory (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS)
#endif
#if !defined(SERVICE_Registers)
#define SERVICE_Registers (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS)
#endif
#if !defined(SERVICE_Processes)
#define SERVICE_Processes (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS)
#endif
#if !defined(SERVICE_MemoryMap)
#define SERVICE_MemoryMap (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS)
#endif
#if !defined(SERVICE_StackTrace)
#define SERVICE_StackTrace (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS)
#endif
#if !defined(SERVICE_Symbols)
#define SERVICE_Symbols (TARGET_UNIX || TARGET_MSVC)
#endif
#if !defined(SERVICE_LineNumbers)
#define SERVICE_LineNumbers (TARGET_UNIX || TARGET_MSVC)
#endif
#if !defined(SERVICE_FileSystem)
#define SERVICE_FileSystem (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS)
#endif
#if !defined(SERVICE_SysMonitor)
#define SERVICE_SysMonitor ((TARGET_UNIX && !TARGET_BSD) || 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)
#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

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

#if !defined(ENABLE_Symbols)
# define ENABLE_Symbols (ENABLE_SymbolsProxy || SERVICE_Symbols)
#endif

#if !defined(ENABLE_LineNumbers)
# define ENABLE_LineNumbers (ENABLE_LineNumbersProxy || SERVICE_LineNumbers)
#endif

#if !defined(ENABLE_ELF)
# define ENABLE_ELF (TARGET_UNIX && (SERVICE_Symbols || SERVICE_LineNumbers))
#endif

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

#if !defined(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

#if !defined(ENABLE_AIO)
# if !defined(_POSIX_ASYNCHRONOUS_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
# elif defined(__linux__)
/* Linux implementation of POSIX AIO found to be inefficient */
#   define ENABLE_AIO    0
# elif TARGET_SYMBIAN
/* Symbian impl (OpenC) not desired either */
#   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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# 1.321 tcl 8.5.11 :r11

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# 1.322 tcp-wrappers 7.6 :r10

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## 1.326 telnet 0.17 :59.el7

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## 1.328 time 1.7 :r2

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## 1.329 tinylogin 1.4 :r10

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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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---

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.

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*
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\*  
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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."

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

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```
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#
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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\ni\n0x1\nr\n"        # set non-random ID
FDISK_CMD_WRITE_CLOSE="w\nq\n"         # write to image
FDISK_CMD_CREATE_PRIMARY1="n\np\n1\n\n+1M\n" # 1st primary partition of size 1MiB
FDISK_CMD_CREATE_PRIMARY2="n\np\n2\n\n\n" # 2nd primary partition for whole of the disk
FDISK_CMD_CHANGE_PART2TYPE="t\n2\na5\n"  # change partition type FreeBSD

FDISK_CMD_BSD_CREATE="b\ny\n"          # create nested BSD PT
FDISK_CMD_BSD_LIST="b\np\nr\nq\n"      # list nested BSD PT and quit
FDISK_CMD_BSD_CREATE_PART="b\nn\na\n\n+1M\n" # add BSD partition 'a', size 1MiB
FDISK_CMD_BSD_PARTTYPE="b\nt\na\n7\n"  # set partition 'a' to type 4.2BSD
FDISK_CMD_BSD_LIST_TYPES="b\nl\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\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\n" >> $TS_OUTPUT
}

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

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
```

```
ts_log "Set 2nd partition type"  
echo -e "${FDISK_CMD_CHANGE_PART2TYPE}${FDISK_CMD_WRITE_CLOSE}" |\ \  
$TS_CMD_FDISK ${TEST_IMAGE_NAME} &> /dev/null  
ts_image_md5sum >> $TS_OUTPUT 2>&1
```

```
print_layout
```

```
ts_log "Create default BSD"  
echo -e "${FDISK_CMD_BSD_CREATE}${FDISK_CMD_WRITE_CLOSE}" |\ \  
$TS_CMD_FDISK ${TEST_IMAGE_NAME} &> /dev/null  
ts_image_md5sum >> $TS_OUTPUT 2>&1
```

```
print_bsd_layout
```

```
echo -e "${FDISK_CMD_BSD_CREATE_PART}${FDISK_CMD_WRITE_CLOSE}" |\ \  
$TS_CMD_FDISK ${TEST_IMAGE_NAME} &> /dev/null
```

```
echo -e "${FDISK_CMD_BSD_PARTTYPE}${FDISK_CMD_WRITE_CLOSE}" |\ \  
$TS_CMD_FDISK ${TEST_IMAGE_NAME} &> /dev/null  
ts_image_md5sum >> $TS_OUTPUT 2>&1
```

```
print_bsd_layout
```

```
echo -e "${FDISK_CMD_BSD_LIST_TYPES}" |\ \  
$TS_CMD_FDISK ${TEST_IMAGE_NAME} |\ \  
sed 's/Reading .*/g; s/Welcome to fdisk .*/' >> $TS_OUTPUT 2>&1
```

```
ts_finalize
```

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

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```
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This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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

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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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# 1.343 v86d 0.1.10 :r1

## 1.343.1 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. Suported 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 a x86 system, run `./configure --with-x86emu`.

## 4. Installation & Usage

-----

To configure, build and install v86d with the default settings, run:

```
# ./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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one line to give the program's name and an idea of what it does.

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You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA. Also add information on how to contact you by electronic and paper mail.

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

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

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

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

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

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

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

## 1.344 vim 7.4.160 :1.el7

### 1.344.1 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

\*iccf\* \*ICCF\*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see [|kcc|](#) below or visit the ICCF web site, available at these URLs:

<http://iccf-holland.org/>

<http://www.vim.org/iccf/>

<http://www.iccf.nl/>

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

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

==== begin of license ====

VIM LICENSE

D) 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.

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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.
- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.
- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

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

---

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

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

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

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

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

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

There is a small clinic at the project, which provides children and their



family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

\*donate\*

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

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

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

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. 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](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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Arnaud LE HORS    BULL Research FRANCE -- Koala Project

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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

# 1.345 vim 7.3.429

## 1.345.1 Available under license :

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

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### SUMMARY

\*iccf\* \*ICCF\*

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<http://www.vim.org/iccf/>

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=====  
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\*donate\*

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p.o. box 1658  
Masaka, Uganda, East Africa

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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.

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Kibaale Children's Fund c/o Pacific Academy  
10238-168 Street  
Surrey, B.C. V4N 1Z4  
Canada



Phone: 604-581-5353

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Postbank, nr. 4548774

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<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.

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The e-mail address for sending the money to is:

[Bram@iccf-holland.org](mailto: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

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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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stichting ICCF Holland

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Finsterruetihof 1  
8134 Adliswil  
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## 1.347 wget 1.14 :13.e17

## 1.347.1 Available under license :

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Version 3, 29 June 2007

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# 1.348 which 2.20 :r3

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Version 3, 29 June 2007

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# 1.349 which 2.20

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Version 3, 29 June 2007

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/\* Skeleton implementation for Bison's Yacc-like parsers in C

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```

```
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Ty Coon, President of Vice
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Carriage\_Control carriage\_return  
Format stream\_if

## 1.362 zlib 1.2.7 :r1

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# 1.363 zlib 1.2.7 :13.e17

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.7, May 2nd, 2012

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

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```
-----
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-----
```

```
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 * match.S -- optimized version of longest_match()
 * based on the similar work by Gilles Vollant, and Brian Raiter, written 1998
 *
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## 1.364 zlib/contrib-ada 1.2.7 :13.el7

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```

# 1.365 zlib/DotZLib 1.2.7 :13.e17

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