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Contents

1.1 Brian Gladman’s AES Implementation 11-01-11
   1.1.1 Available under license
1.2 busybox 1.15.1 :15.el6
   1.2.1 Available under license
1.3 Coreboot d9b5d897d7f05d0ee8f9411628b757beea990b4b
   1.3.1 Available under license
1.4 curl and libcurl 7.44.0 :7.44.0
   1.4.1 Available under license
1.5 dhcp 4.1.1-P1
   1.5.1 Available under license
1.6 expat 2.2.0
   1.6.1 Available under license
1.7 FatFS R0.05
   1.7.1 Available under license
1.8 freetype 2.5.3
   1.8.1 Available under license
1.9 fribidi 0.19.6 :1
   1.9.1 Available under license
1.10 G.722 2.00
   1.10.1 Available under license
1.11 HMAC n/a
   1.11.1 Available under license
1.12 icelib f50dffe9820bb7e32ac7b9b1b1d19aa3431227a2
   1.12.1 Available under license
1.13 lal-libpng 1.6.10
   1.13.1 Available under license
1.14 lal-npm-mime 1.2.11
   1.14.1 Available under license
1.15 ldns 1.6.17 :2.0
   1.15.1 Available under license
1.16 libarchive 3.2.1
   1.16.1 Available under license
1.17 libexecinfo-1.1 libexecinfo-1.1
   1.17.1 Available under license
1.18 libjpeg 6b
   1.18.1 Notifications
   1.18.2 Available under license
1.19 libunwind 1.1
   1.19.1 Available under license
1.20 linux 3.4.86
   1.20.1 Available under license
1.21 linux 2.6.26
   1.21.1 Available under license
1.22 lua 5.1.2
   1.22.1 Available under license
1.23 Lua 5.2.2
   1.23.1 Available under license
1.24 lwIP 1.4.0 :rc1
   1.24.1 Available under license
1.25 Multiparty Media 320-310 Linux Device Driver KLM d4d96680c288
   1.25.1 Available under license
1.26 nanopb 0.2.6
   1.26.1 Available under license
1.27 nat-tools f50dffe9820bb7e32ac7b9b1b1d19aa3431227a2
   1.27.1 Available under license
1.28 net-snmp 5.4.1
   1.28.1 Available under license
1.29 newlib 1.17.0
   1.29.1 Available under license
1.30 newlib/newlib-proper-except-linuxthreads 1.17.0
   1.30.1 Available under license
1.31 node 2014.09.16, Version 0.10.32 (Stable)
   1.31.1 Available under license
1.32 node/deps/http_parser 2014.09.16, Version 0.10.32 (Stable)
   1.32.1 Available under license
1.33 node/deps/npm/node_modules/block-stream 2014.09.16, Version 0.10.32 (Stable)
   1.33.1 Available under license

1.34 node/deps/npm/node_modules/chownr 2014.09.16, Version 0.10.32 (Stable)
   1.34.1 Available under license

1.35 node/deps/npm/node_modules/npmconf/node_modules/config-chain 2014.09.16, Version 0.10.32 (Stable)
   1.35.1 Available under license

1.36 node/deps/npm/node_modules/read 2014.09.16, Version 0.10.32 (Stable)
   1.36.1 Available under license

1.37 node/deps/npm/node_modules/tar 2014.09.16, Version 0.10.32 (Stable)
   1.37.1 Available under license

1.38 node/deps/openssl/openssl 2014.09.16, Version 0.10.32 (Stable)
   1.38.1 Notifications
   1.38.2 Available under license

1.39 node/deps/uv 2014.09.16, Version 0.10.32 (Stable)
   1.39.1 Available under license

1.40 node/deps/v8 2014.09.16, Version 0.10.32 (Stable)
   1.40.1 Available under license

1.41 node/deps/zlib 2014.09.16, Version 0.10.32 (Stable)
   1.41.1 Available under license

1.42 npm-buffer-crc32 0.2.1
   1.42.1 Available under license

1.43 npm-cookie 0.1.0
   1.43.1 Available under license

1.44 npm-cookie-signature 1.0.3
   1.44.1 Available under license

1.45 npm-debug 0.8.1
   1.45.1 Available under license

1.46 npm-escape-html 1.0.1
   1.46.1 Available under license

1.47 npm-express 4.0.0
   1.47.1 Available under license

1.48 npm-fresh 0.2.2
   1.48.1 Available under license

1.49 npm-merge-descriptors 0.0.2
   1.49.1 Available under license

1.50 npm-methods 0.1.0
   1.50.1 Available under license
1.51 npm-negotiator 0.3.0
  1.51.1 Available under license
1.52 npm-node-slip 0.0.2
  1.52.1 Available under license
1.53 npm-qs 0.6.6
  1.53.1 Available under license
1.54 npm-range-parser 1.0.0
  1.54.1 Available under license
1.55 npm-regexp 0.1.2
  1.55.1 Available under license
1.56 npm-send 0.2.0
  1.56.1 Available under license
1.57 npm-serve-static 1.0.1
  1.57.1 Available under license
1.58 npm-type-is 1.0.0
  1.58.1 Available under license
1.59 npm-utils-merge 1.0.0
  1.59.1 Available under license
1.60 OpenSSL 1.0.2p
  1.60.1 Available under license
1.61 opus 1.1
  1.61.1 Available under license
1.62 picoOS 1.0.0
  1.62.1 Available under license
1.63 Prototype 1.6.0.2.
  1.63.1 Available under license
1.64 scriptaculous 1.8.1
  1.64.1 Available under license
1.65 seabios 1.7.2.1
  1.65.1 Available under license
1.66 sha1 01/08/2005
  1.66.1 Available under license
1.67 sockaddrutil f50dffe9820bb7e32ac7b9b1b1d19aa3431227a2
  1.67.1 Available under license
1.68 src/common/net/lwip 1.4.1
  1.68.1 Available under license
1.69 stunlib f50dffe9820bb7e32ac7b9b1b1d19aa3431227a2
  1.69.1 Available under license
1.70 unbound 1.5.9
1.70.1 Available under license
1.71 usbd 0.1.2
   1.71.1 Available under license
1.72 yajl 2.1.0
   1.72.1 Available under license
1.73 zlib 1.2.8
   1.73.1 Available under license

FreeBSD 8.4 waterloo MR4
2.1 beadm 1.2.2
   2.1.1 Available under license
2.2 freebsd-bind9 9.8.4
   2.2.1 Available under license
2.3 freebsd-src 8.4
   2.3.1 Available under license
2.4 src-cddl 8.4
   2.4.1 Available under license
2.5 src-nocopyleft 8.4
   2.5.1 Available under license
2.6 src-sys-cddl 8.4
   2.6.1 Available under license
2.7 src/contrib/amd 6.1.5
   2.7.1 Available under license
2.8 src/contrib/cvs 8.4
   2.8.1 Available under license
2.9 src/contrib/file 8.4
   2.9.1 Available under license
2.10 src/contrib/gcclibs/libiberty 8.4
   2.10.1 Available under license
2.11 src/contrib/gdb 8.4
   2.11.1 Available under license
2.12 src/contrib/gdb/gdb 8.4
   2.12.1 Available under license
2.13 src/contrib/gdb/include 8.4
   2.13.1 Available under license
2.14 src/contrib/gnu-sort 8.4
   2.14.1 Available under license
2.15 src/contrib/gperf 8.4
   2.15.1 Available under license
2.16 src/contrib/groff 8.4
   2.16.1 Available under license
2.17 src/contrib/libf2c/libU77 8.4
   2.17.1 Available under license
2.18 src/contrib/libreadline 8.4
   2.18.1 Available under license
2.19 src/contrib/lukemftp 8.4
   2.19.1 Available under license
2.20 src/contrib/lukemftpd 8.4
   2.20.1 Available under license
2.21 src/contrib/ntp 4.2.4p5
   2.21.1 Available under license
2.22 src/contrib/ntp/arlib 4.2.4p5
   2.22.1 Available under license
2.23 src/contrib/ntp/libopts 4.2.4p5
   2.23.1 Available under license
2.24 src/contrib/ntp/sntp 4.2.4p5
   2.24.1 Available under license
2.25 src/contrib/ntp/sntp/libopts 4.2.4p5
   2.25.1 Available under license
2.26 src/contrib/one-true-awk 20121220
   2.26.1 Available under license
2.27 src/contrib/opie 8.4
   2.27.1 Available under license
2.28 src/contrib/pam_modules/pam_passwdqc 8.4
   2.28.1 Available under license
2.29 src/contrib/sendmail 8.4
   2.29.1 Available under license
2.30 src/contrib/smbfs 8.4
   2.30.1 Available under license
2.31 src/contrib/texinfo 8.4
   2.31.1 Available under license
2.32 src/contrib/wpa 8.4
   2.32.1 Available under license
2.33 src/crypto/openssh 8.4
   2.33.1 Available under license
2.34 src/crypto.openssl 8.4
   2.34.1 Available under license
2.35 src/crypto/openssl/crypto/bf 8.4
2.35.1 Available under license
2.36 src/crypto.openssl/crypto/des 8.4
  2.36.1 Available under license
2.37 src-gnu 8.4
  2.37.1 Available under license
2.38 src-gnu/lib/libdialog 8.4
  2.38.1 Available under license
2.39 src-gnu/usr.bin/dialog 8.4
  2.39.1 Available under license
2.40 src-gnu/usr.bin/man 8.4
  2.40.1 Available under license
2.41 src-gnu/usr.bin/send-pr 8.4
  2.41.1 Available under license
2.42 src/lib/libc/regex alpha3.4
  2.42.1 Available under license
2.43 src/lib/libc/rpc 8.4
  2.43.1 Available under license
2.44 src/lib/libcompat/regexp 8.4
  2.44.1 Available under license
2.45 src/sys/contrib/dev/mwl 8.4
  2.45.1 Available under license
2.46 src/sys/contrib/dev/npe 8.4
  2.46.1 Available under license
2.47 src/sys/contrib/dev/ral 8.4
  2.47.1 Available under license
2.48 src/sys/contrib/dev/run 8.4
  2.48.1 Available under license
2.49 src/sys/contrib/dev/wpi 8.4
  2.49.1 Available under license
2.50 src/sys/dev/e1000 8.4
  2.50.1 Available under license
2.51 src/sys/dev/ixgb 8.4
  2.51.1 Available under license
2.52 src/sys/dev/ixgbe 8.4
  2.52.1 Available under license
2.53 src/sys/netatalk 8.4
  2.53.1 Available under license
2.54 src/sys/xen/interface 8.4
  2.54.1 Available under license
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Issue Date: 20/12/2007

This file contains the definitions required to use AES in C. See aesopt.h for optimisation details.
1.2 busybox 1.15.1 :15.el6

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Julian Seward, Cambridge, UK.
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bzip2/libbzip2 version 1.0.4 of 20 December 2006

1.3 Coreboot
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b

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* util/kconfig/*: GPLv2
  Source: git://git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux-2.6
  Current version we use: 587c90616a5b44e6ccfac38e64d4fece51d588c (03/2008)

* include/curses.priv.h: BSD-like license
  Original files: ncurses/curses.priv.h
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* include/curses.h: BSD-like license
  Original files: include/curses.h.in
  Current version we use: 5.6

* include/lar.h: GPLv2 or revised BSD license
  Source: coreboot v3, svn://coreboot.org/repository/coreboot-v3
  Original file: util/lar/lar.h
  Current version we use: r647

* libc/ipchecksum.c: 2-clause BSD license
  Source: FreeBSD's base system libraries, http://www.freebsd.org
    http://www.freebsd.org/cgi/cvsweb.cgi/src/lib/libalias/Attic/alias_util.c?rev=1.15;content-type=text%2Fplain
  Original files: lib/libalias/alias_util.c, function LibAliasInternetChecksum()
  Current version we use: CVS revision 1.15 2004/07/06 12:13:28

* libc/rand.c: 3-clause BSD license
  Source: OpenBSD
    http://www.openbsd.org/cgi-bin/cvsweb/src/lib/libc/stdlib/rand.c
  Original files: src/lib/libc/stdlib/rand.c
  Current version we use: CVS revision 1.9 2005/8/8 08:05:37

* libc/memory.c: 3-clause BSD license
  Source: HelenOS, http://www.helenos.eu
    svn checkout svn://svn.helenos.eu/HelenOS/trunk HelenOS
  Original files: uspace/libc/generic/string.c
  Current version we use: r2754

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  Source: HelenOS, http://www.helenos.eu
    svn checkout svn://svn.helenos.eu/HelenOS/trunk HelenOS
  Original files: kernel/generic/src/printf/printf_core.c
    kernel/generic/src/printf/snprintf.c
    kernel/generic/src/printf/sprintf.c
    kernel/generic/src/printf/vsnprintf.c
    kernel/generic/src/printf/vsprintf.c
kernel/generic/src/printf/printf.c
kernel/generic/src/printf/vprintf.c
Current version we use: r2745

* drivers/video/font8x16.c: 3-clause BSD license
Source: HelenOS, http://www.helenos.eu
  svn checkout svn://svn.helenos.eu/HelenOS/trunk HelenOS
Original file: kernel/genarch/src/fb/font-8x16.c
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* crypto/sha1.c: Public domain
Source: OpenBSD
  http://www.openbsd.org/cgi-bin/cvsweb/src/lib/libc/hash/sha1.c
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Other documentation files in the distribution are:

User documentation:
install.doc       How to configure and install the IJG software.
usage.doc         Usage instructions for cjpeg, djpeg, jpegtran,
                   rdjpgcom, and wrjpgcom.
*.1               Unix-style man pages for programs (same info as usage.doc).
wizard.doc        Advanced usage instructions for JPEG wizards only.
change.log        Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc       How to use the JPEG library in your own programs.
example.c         Sample code for calling the JPEG library.
structure.doc     Overview of the JPEG library's internal structure.
filelist.doc      Road map of IJG files.
coderules.doc     Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
This package contains C software to implement JPEG image compression and
decompression. JPEG (pronounced “jay-peg”) is a standardized compression
method for full-color and gray-scale images. JPEG is intended for compressing
“real-world” scenes; line drawings, cartoons and other non-realistic images
are not its strong suit. JPEG is lossy, meaning that the output image is not
exactly identical to the input image. Hence you must not use JPEG if you
have to have identical output bits. However, on typical photographic images,
very good compression levels can be obtained with no visible change, and
remarkably high compression levels are possible if you can tolerate a
low-quality image. For more details, see the references, or just experiment
with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren’t implemented yet.
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the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications “cjpeg” and “djepg”, which use the library to
perform conversion between JPEG and some other popular image file formats.
The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability;
for example, the color quantization modules are not strictly part of JPEG
decoding, but they are essential for output to colormapped file formats or
colormapped displays. These extra functions can be compiled out of the
library if not required for a particular application. We have also included
“jpegtran”, a utility for lossless transcoding between different JPEG
processes, and “rdjpgcom” and “wrjpgcom”, two simple applications for
inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and
flexibility, while also making it fast enough to be useful. In particular,
the software is not intended to be read as a tutorial on JPEG. (See the
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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:
The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
===============

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
================

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation.
We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely
supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.19 libunwind 1.1

1.19.1 Available under license:

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1.20 linux 3.4.86

1.20.1 Available under license:

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

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M. Welsh, 6 July 1996

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

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

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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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.

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**1.21 linux 2.6.26**

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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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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

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Version 1.0

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* 
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* 
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* 
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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1.28 net-snmp 5.4.1

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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation
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1.41 node/deps/zlib 2014.09.16, Version
0.10.32 (Stable)

1.41.1 Available under license :
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.4, March 14th, 2010

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Mark Adler

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1.42 npm-buffer-crc32 0.2.1

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1.44 npm-cookie-signature 1.0.3

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1.48 npm-fresh 0.2.2

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1.51 npm-negotiator 0.3.0

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1.52 npm-node-slip 0.0.2

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1.53 npm-qs 0.6.6

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1.54 npm-range-parser 1.0.0

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1.56 npm-send 0.2.0

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1.59 npm-utils-merge 1.0.0

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/* zlib.h -- interface of the 'zlib' general purpose compression library

version 1.2.8, April 28th, 2013

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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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2.3 freebsd-src 8.4

2.3.1 Available under license :

```
# $FreeBSD: release/8.4.0/libexec/atrun/LEGAL 50476 1999-08-28 00:22:10Z peter $

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

Sorry for the long wait, but there still were a few things to
be ironed out in at, which I've finally done :-) 

The FreeBSD team does have my permission to use at, version 2.9,
under the BSD license.

You'll find it on sunsite.unc.edu's Incoming, hopefully; the
md5 checksum is

3ba2ca3c0e87e1a04feae2c6c1376b0d at-2.9.tgz

Best regards
Thomas

--
Thomas Koenig, Thomas.Koenig@ciw.uni-karlsruhe.de, ig25@dkauni2.bitnet.
The joy of engineering is to find a straight line on a double
logarithmic diagram.

-----BEGIN PGP SIGNATURE-----
Version: 2.6.2i
iQCVAwUBMCjVrPBu+cJcKCVAQFiQP/dpWP57s/E8plVGUD3zgfOXDmKUvg8U7a
VwRzJrlMuSgn55Js0wpvcmcmc3NLicpfX7hhWlh/xatPM2YbF7O5HZoNdvWvexD2
1Y67jZ0HFb1mPnSBOrS5RFiQ Ae3KqmGec6E14Rih/qNoFQZBVRFXZ4xxuwP+0Rs
e2U+TVTUz6A=
=TyvW
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++++++++++++++++

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.
Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).
H.J. Lu has contributed many patches and much testing.

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

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

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5. mailto:%20michael.barone@lmco.com
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14. mailto:%20Sven_Dietrich@trimble.COM
15. mailto:%20dundas@salt.jpl.nasa.gov
16. mailto:%20duwe@immd4.informatik.uni-erlangen.de
17. mailto:%20dennis@mrbill.canet.ca
In some email I received from Harlan Stenn, sie wrote:

> Darren,
> 
> I'm looking for an async resolver library that I can use with NTP.
> 
> I noticed your code in the contrib/subdir of later bind8 distribution
> 
> and I noticed the Copyright notice in arlib.c:
> 
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> * shape or form. The author takes no responsibility for any damage or loss
> * of property which results from the use of this software.
> 
> so I thought I'd ask your permission to distribute your files if I can

http://coombs.anu.edu.au/~avalon/arlib.tar.gz

a few bug fixes (incl. buffer overflow :) and stuff in there.

But otherwise, go for it.

Darren

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Version 2.1, February 1999

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1. 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 General Public License and to the absence of any warranty; and give any other recipients of the Program a copy of this General Public License along with the Program. You may charge a fee for the physical act of transferring a copy.

2. You may modify your copy or copies of the Program or any portion of it, and copy and distribute such modifications under the terms of Paragraph 1 above, provided that you also do the following:

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in the simplest and most usual way, to print or display an
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warranty) and that users may redistribute the program under these
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copy, and you may at your option offer warranty protection in
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the other work under the scope of these terms.

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it, under Paragraph 2) in object code or executable form under the terms of
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a) accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of
Paragraphs 1 and 2 above; or,

b) accompany it with a written offer, valid for at least three
years, to give any third party free (except for a nominal charge
for the cost of distribution) a complete machine-readable copy of the
corresponding source code, to be distributed under the terms of
Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the
 corresponding source code may be obtained. (This alternative is
 allowed only for noncommercial distribution and only if you
 received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making
modifications to it. For an executable file, complete source code means
all the source code for all modules it contains; but, as a special
exception, it need not include source code for modules which are standard
libraries that accompany the operating system on which the executable
file runs, or for standard header files or definitions files that
accompany that operating system.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <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 1, or (at your option)
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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.

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.

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) 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!
[I have snipped the snail mail address of the FSF because it has changed in the past and is likely to change again. The current address should be at http://www.gnu.org/]

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Version 2, June 1991

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

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

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 it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, 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 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.

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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
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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
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that the user who changes the contents of definitions files in the
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For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
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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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

<one line to give the library's name and a brief idea of what it does.>
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You should have received a copy of the GNU Library General Public 
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Software Foundation, Inc.

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!
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@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).
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type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end example

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

@c man end

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

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@example
@example
@example
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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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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.
@example
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:
@example
Gnomovision version 69, Copyright (C) @var{year} @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.
@example
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.

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necessary. Here is a sample; alter the names:

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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
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Version 2, June 1991

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

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

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

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

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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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Norm Schryer (then AT&T Bell Labs, now AT&T Labs)
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I hate legaleese, don't you?

BINDEST=/usr/sbin
S BINDEST=/sbin
MANDIR=/usr/share/man

OBJS=ipsend.o ip.o ipsopt.o iplang_y.o iplang_1.o
IPFTO=ipft_ef.o ipft_hx.o ipft_pc.o ipft_sn.o ipftTd.o ipft_tx.o
ROBJS=ipresend.o ip.o resend.o
TOBJS=iptest.o iptests.o ip.o
UNIXOBJJS=sbpf.o sock.o 44arp.o
OBJ=.
LIBS=-L$(OBJ) -lipf

CC=gcc -Wuninitialized -Wstrict-prototypes -O
CFLAGS=-g -I$(TOP)

all build bsd-bpf : ipsend ipresend iptest

iplang_y.o: $(TOP)/iplang/iplang_y.y
(cd $(TOP)/iplang; $(MAKE) ../BSD/$(CPUDIR)/$@ $(MFLAGS) 'DESTDIR=../BSD/$(CPUDIR)'

iplang_1.o: $(TOP)/iplang/iplang_1.l
(cd $(TOP)/iplang; $(MAKE) ../BSD/$(CPUDIR)/$@ $(MFLAGS) 'DESTDIR=../BSD/$(CPUDIR)'

.o.c:
$(CC) $(DEBUG) $(CFLAGS) -c $< -o $@

ipsend: $(OBJ) $(UNIXOBJJS)
$(CC) $(DEBUG) $(OBJ) $(UNIXOBJJS) -o $@ $(LIBS) -ll

ipresend: $(ROBJS) $(UNIXOBJJS)
$(CC) $(DEBUG) $(ROBJS) $(UNIXOBJJS) -o $@ $(LIBS)
iptest: $(TOBJS) $(UNIXOBJS)
$(CC) $(DEBUG) $(TOBJS) $(UNIXOBJS) -o $@ $(LIBS)

clean:
rm -rf *.o core a.out ipsend ipresend iptest iplang_y.* iplang_l.*

ipsend.o: $(TOP)/ipsend/ipsend.c
$(CC) $(DEBUG) $(CFLAGS) -c $(TOP)/ipsend/ipsend.c -o $@

ipsopt.o: $(TOP)/ipsend/ipsopt.c
$(CC) $(DEBUG) $(CFLAGS) -c $(TOP)/ipsend/ipsopt.c -o $@

ipresend.o: $(TOP)/ipsend/ipresend.c
$(CC) $(DEBUG) $(CFLAGS) -c $(TOP)/ipsend/ipresend.c -o $@

ip.o: $(TOP)/ipsend/ip.c
$(CC) $(DEBUG) $(CFLAGS) -c $(TOP)/ipsend/ip.c -o $@

resend.o: $(TOP)/ipsend/resend.c
$(CC) $(DEBUG) $(CFLAGS) -c $(TOP)/ipsend/resend.c -o $@

ipft_sn.o: $(TOP)/ipft_sn.c
$(CC) $(DEBUG) $(CFLAGS) -c $(TOP)/ipft_sn.c -o $@

ipft_pc.o: $(TOP)/ipft_pc.c
$(CC) $(DEBUG) $(CFLAGS) -c $(TOP)/ipft_pc.c -o $@

iptest.o: $(TOP)/ipsend/iptest.c
$(CC) $(DEBUG) $(CFLAGS) -c $(TOP)/ipsend/iptest.c -o $@

iptests.o: $(TOP)/ipsend/iptests.c
$(CC) $(DEBUG) $(CFLAGS) -c $(TOP)/ipsend/iptests.c -o $@

sbpf.o: $(TOP)/ipsend/sbpf.c
$(CC) $(DEBUG) $(CFLAGS) -c $(TOP)/ipsend/sbpf.c -o $@

snit.o: $(TOP)/ipsend/snit.c
$(CC) $(DEBUG) $(CFLAGS) -c $(TOP)/ipsend/snit.c -o $@

sock.o: $(TOP)/ipsend/sock.c
$(CC) $(DEBUG) $(CFLAGS) -c $(TOP)/ipsend/sock.c -o $@

arp.o: $(TOP)/ipsend/arp.c
$(CC) $(DEBUG) $(CFLAGS) -c $(TOP)/ipsend/arp.c -o $@

44arp.o: $(TOP)/ipsend/44arp.c
$(CC) $(DEBUG) $(CFLAGS) -c $(TOP)/ipsend/44arp.c -o $@
lsock.o: $(TOP)/ipsend/lsock.c
$(CC) $(DEBUG) $(CFLAGS) -c $(TOP)/ipsend/lsock.c -o $@

slinux.o: $(TOP)/ipsend/slinux.c
$(CC) $(DEBUG) $(CFLAGS) -c $(TOP)/ipsend/slinux.c -o $@

larp.o: $(TOP)/ipsend/larp.c
$(CC) $(DEBUG) $(CFLAGS) -c $(TOP)/ipsend/larp.c -o $@

dlcommon.o: $(TOP)/ipsend/dlcommon.c
$(CC) $(DEBUG) $(CFLAGS) -c $(TOP)/ipsend/dlcommon.c -o $@

sdipi.o: $(TOP)/ipsend/sdipi.c
$(CC) $(DEBUG) $(CFLAGS) -c $(TOP)/ipsend/sdipi.c -o $@

install:
-$($(INSTALL) -cs -g wheel -m 755 -o root ipsend ipresend iptest $(BINDEST)
ipf
ipfs
ipfstat
ipftest
ipmon
ipnat
ipresend
ipsend
iptest
vnode_if.h
if_ipl
i386
amiga
FreeBSD*
BSDOS*
NetBSD*
OpenBSD*
*_lex_var.h
*_y.c
*_l.c
*_y.h
ip_rules.*

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The Standard is defined as the following IETF RFCs:
Version 2 RFC 1832: XDR: External Data Representation
Standard RFC 1833: Binding Protocols for ONC RPC Version 2
RFC 2695: Authentication Mechanisms for ONC RPC

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This is the README file for the "include" files for the FreeBSD source tree. The files are installed in /usr/share/mk, and are by convention, named with the suffix ".mk". These files store several build options and should be handled with caution.

Note, this file is not intended to replace reading through the .mk files for anything tricky.

There are two main types of make include files. One type is the generally usable make include files, such as bsd.prog.mk and bsd.lib.mk. The other is the internal make include files, such as bsd.files.mk and bsd.man.mk, which can not/should not be used directly but are used by the other make include files. In most cases it is only interesting to include bsd.prog.mk or bsd.lib.mk.

bsd.cpu.mk- sets CPU/arch-related variables
bsd.dep.mk- handle Makefile dependencies
bsd.doc.mk- building troff system documents
bsd.files.mk- install of general purpose files
bsd.incs.mk- install of include files
bsd.info.mk- building GNU Info hypertext system
bsd.init.mk- initialization for the make include files
bsd.kmod.mk- building loadable kernel modules
bsd.lib.mk- support for building libraries
bsd.libnames.mk- define library names
bsd.links.mk- install of links (sym/hard)
bsd.man.mk- install of manual pages and their links
bsd.nls.mk- build and install of NLS catalogs
bsd.obj.mk- creating 'obj' directories and cleaning up
bsd.own.mk- define common variables
bsd.port.mk- building ports
bsd.port.post.mk- building ports
bsd.port.pre.mk- building ports
bsd.port.subdir.mk- targets for building subdirectories for ports
bsd.prog.mk- building programs from source files
bsd.snmpmod.mk- building modules for the SNMP daemon bsnmpd
bsd.subdir.mk- targets for building subdirectories
bsd.sys.mk- common settings used for building FreeBSD sources
sys.mk- default rules for all makes

This file does not document bsd.port*.mk. They are documented in ports(7).
See also make(1), mkdep(1), style.Makefile(5) and `PMake - A Tutorial', located in /usr/share/doc/psd/12.make.

Random things worth knowing about this document:

If appropriate when documenting the variables the default value is indicated using square brackets e.g. [gzip].
In some cases the default value depend on other values (e.g. system architecture). In these cases the most common value is indicated.

This document contains some simple examples of the usage of the BSD make include files. For more examples look at the makefiles in the FreeBSD source tree.

RANDOM THINGS WORTH KNOWING:

The files are like C-style #include files, and pretty much behave like you'd expect. The syntax is slightly different in that a single `.' is used instead of the hash mark, i.e. ".include <bsd.prog.mk>".

One difference that will save you lots of debugging time is that inclusion of the file is normally done at the *end* of the Makefile. The reason for this is because .mk files often modify variables and behavior based on the values of variables set in the Makefile. To make this work, remember that the FIRST target found is the target that is used, i.e. if the Makefile has:

```
a:
  echo a
a:
  echo a number two
```

the command "make a" will echo "a". To make things confusing, the SECOND variable assignment is the overriding one, i.e. if the Makefile has:

```
a=foo
a=bar
```

```
b:
  echo ${a}
```

the command "make b" will echo "bar". This is for compatibility with the way the V7 make behaved.
It's fairly difficult to make the BSD .mk files work when you're building multiple programs in a single directory. It's a lot easier split up the programs than to deal with the problem. Most of the agony comes from making the “obj” directory stuff work right, not because we switch to a new version of make. So, don't get mad at us, figure out a better way to handle multiple architectures so we can quit using the symbolic link stuff. (Imake doesn't count.)

The file .depend in the source directory is expected to contain dependencies for the source files. This file is read automatically by make after reading the Makefile.

The variable DESTDIR works as before. It's not set anywhere but will change the tree where the file gets installed.

The profiled libraries are no longer built in a different directory than the regular libraries. A new suffix, ”.po”, is used to denote a profiled object.

The include file <sys.mk> has the default rules for all makes, in the BSD environment or otherwise. You probably don't want to touch this file.

The include file <bsd.man.mk> handles installing manual pages and their links.

It has three targets:

all-man:
build manual pages.
maninstall:
install the manual pages and their links.
manlint:
verify the validity of manual pages.

It sets/uses the following variables:

MANDIRBase path for manual installation.
MANGRPMmanual group.
MANOWNManual owner.
MANMODEManual mode.
MANSUBDIRS - Subdirectory under the manual page section, i.e. "/vax" or "/tahoe" for machine specific manual pages.

MAN - The manual pages to be installed (use a .1 - .9 suffix).

MLINKS - List of manual page links (using a .1 - .9 suffix). The linked-to file must come first, the linked file second, and there may be multiple pairs. The files are soft-linked.

The include file <bsd.man.mk> includes a file named "./Makefile.inc" if it exists.

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The include file <bsd.own.mk> contains the owners, groups, etc. for both manual pages and binaries.

It has no targets.

It sets/uses the following variables:

BINGRP - Binary group.

BINOWN - Binary owner.

BINMODE - Binary mode.

MANDIR - Base path for manual installation.

MANGRP - Manual group.

MANOWN - Manual owner.

MANMODE - Manual mode.

This file is generally useful when building your own Makefiles so that they use the same default owners etc. as the rest of the tree.

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The include file <bsd.prog.mk> handles building programs from one or more source files, along with their manual pages. It has a limited number of suffixes, consistent with the current needs of the BSD tree.

It has seven targets:

all: build the program and its manual page
clean:
remove the program and any object files.
cleandir:
remove all of the files removed by the target clean, as well as .depend, tags, and any manual pages.
depend:
make the dependencies for the source files, and store them in the file .depend.
install:
install the program and its manual pages; if the Makefile does not itself define the target install, the targets beforeinstall and afterinstall may also be used to cause actions immediately before and after the install target is executed.
lint:
run lint on the source files
tags:
create a tags file for the source files.

It sets/uses the following variables:

BINGRPBinary group.

BINOWNBinary owner.

BINMODEBinary mode.

CLEANFILESAdditional files to remove and CLEANDIRSAdditional directories to remove during clean and cleandir targets. "rm -f" and "rm -rf" used respectively.

CFLAGSFlags to the compiler when creating C objects.

FILESList of non-executable files.
The installation is controlled by the FILESNAME, FILESOWN, FILESGRP, FILESMODE, FILESDIR variables that can be further specialized by FILES<VAR>_<file>.

LDADDAdditional loader objects. Usually used for libraries.
For example, to load with the compatibility and utility libraries, use:

LDFILES=-lutil -lcompat

LDFLAGSAdditional loader flags.

LINKSThe list of binary links; should be full pathnames, the linked-to file coming first, followed by the linked
file. The files are hard-linked. For example, to link
/bin/test and /bin/[, use:

LINKS=${DESTDIR}/bin/test ${DESTDIR}/bin/[""

MANManual pages (should end in .1 - .9). If no MAN variable
is defined, "MAN=${PROG}.1" is assumed.

PROGThe name of the program to build. If not supplied, nothing
is built.

PROG_CXXIf defined, the name of the program to build. Also
causes <bsd.prog.mk> to link the program with the
standard C++ library. PROG_CXX overrides the value
of PROG if PROG is also set.

PROGNAMEThe name that the above program will be installed as, if
different from ${PROG}.

SRCSList of source files to build the program. If SRCS is not
defined, it's assumed to be ${PROG}.c or, if PROG_CXX is
defined, ${PROG_CXX}.cc.

DPADDAdditional dependencies for the program. Usually used for
libraries. For example, to depend on the compatibility and
utility libraries use:

SRCLIB=${LIBCOMPAT} ${LIBUTIL}

There is a predefined identifier for each (non-profiled,
non-shared) library and object. Library file names are
transformed to identifiers by removing the extension and
converting to upper case.

There are no special identifiers for profiled or shared
libraries or objects. The identifiers for the standard
libraries are used in DPADD. This works correctly iff all
the libraries are built at the same time. Unfortunately,
it causes unnecessary relinks to shared libraries when
only the static libraries have changed. Dependencies on
shared libraries should be only on the library version
numbers.

STRIPThe flag passed to the install program to cause the binary
to be stripped. This is to be used when building your
own install script so that the entire system can be made
stripped/not-stripped using a single nob.
SUBDIRA list of subdirectories that should be built as well. Each of the targets will execute the same target in the subdirectories.

SCRIPTSA list of interpreter scripts [file.{sh,cs,pl,awk,...}]. The installation is controlled by the SCRIPTSNAME, SCRIPTSOWN, SCRIPTSGRP, SCRIPTSMODE, SCRIPTSDIR variables that can be further specialized by SCRIPTS<VAR>_<script>.

The include file <bsd.prog.mk> includes the file named "./.Makefile.inc" if it exists, as well as the include file <bsd.man.mk>.

Some simple examples:

To build foo from foo.c with a manual page foo.1, use:

PROG=foo

.include <bsd.prog.mk>

To build foo from foo.c with a manual page foo.2, add the line:

MAN=foo.2

If foo does not have a manual page at all, add the line:

NO_MAN=

If foo has multiple source files, add the line:

SRCS=a.c b.c c.c d.c

The include file <bsd.subdir.mk> contains the default targets for building subdirectories. It has the same seven targets as <bsd.prog.mk>: all, clean, cleandir, depend, install, lint, and tags. For all of the directories listed in the variable SUBDIRS, the specified directory will be visited and the target made. There is also a default target which allows the command "make subdir" where subdir is any directory listed in the variable SUBDIRS.

The include file <bsd.lib.mk> has support for building libraries. It has the same seven targets as <bsd.prog.mk>: all, clean, cleandir, depend, install, lint, and tags. It has a limited number of suffixes, consistent with the current needs of the BSD tree.
It sets/uses the following variables:

**LIBDIR**
Target directory for libraries.

**LINTLIBDIR**
Target directory for lint libraries.

**LIBGRP**
Library group.

**LIBOWN**
Library owner.

**LIBMODE**
Library mode.

**LDADD**
Additional loader objects.

**MAN**
The manual pages to be installed (use a `.1` - `.9` suffix).

**SRCS**
List of source files to build the library. Suffix types .s, .c, and .f are supported. Note, .s files are preferred to .c files of the same name. (This is not the default for versions of make.)

**SHLIB_LDSCRIPT**
Template file to generate shared library linker script. Unless used, a simple symlink is created to the real shared object.

The include file `<bsd.lib.mk>` includes the file named `./Makefile.inc` if it exists, as well as the include file `<bsd.man.mk>`.

It has rules for building profiled objects; profiled libraries are built by default.

Libraries are ranlib'd before installation.

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You'll find it on sunsite.unc.edu's Incoming, hopefully; the md5 checksum is

3ba2ca3c0e87e1a04feae2c6c1376b0d at-2.9.tgz

Best regards

Thomas
The joy of engineering is to find a straight line on a double logarithmic diagram.

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[signature]

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2.7 src/contrib/amd 6.1.5

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <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
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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
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Foundation, Inc.

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) 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!
[I have snipped the snail mail address of the FSF because it has changed in the past and is likely to change again. The current address should be at http://www.gnu.org/]

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Version 2, June 1991

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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during execution displays copyright notices, you must include the
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directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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End of terms and conditions

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

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

That's all there is to it!

2.9 src/contrib/file 8.4

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2.10 src/contrib/gcclibs/libiberty 8.4

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Version 2.1, February 1999

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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.

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

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

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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.
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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.

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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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 {\texttt{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.

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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.

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.

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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2.11 src/contrib/gdb 8.4

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2.12 src/contrib/gdb/gdb 8.4

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### 2.15 src/contrib/gperf 8.4

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2.19 src/contrib/lukemftp 8.4

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2. [2]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
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6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
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42. [46]Jack Sapsortas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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45. [49]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
46. [50]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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50. [54]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
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In some email I received from Harlan Stenn, sie wrote:

> Darren,
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I noticed your code in the contrib subdir of later bind8 distribution
and I noticed the Copyright notice in arlib.c:

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so I thought I'd ask your permission to distribute your files if I can
figure out how to make it all work with ntpd.

http://coombs.anu.edu.au/~avalon/arlib.tar.gz

a few bug fixes (inc. buffer overflow :) and stuff in there.

But otherwise, go for it.

Darren

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2.22 src/contrib/ntp/arlib 4.2.4p5

2.22.1 Available under license:

In some email I received from Harlan Stenn, sie wrote:
> Darren,
>
> I'm looking for an async resolver library that I can use with NTP.
>
> I noticed your code in the contrib/subdir of later bind8 distribution
> and I noticed the Copyright notice in arlib.c:
>
> * arlib.c (C)opyright 1993 Darren Reed. All rights reserved.
> * This file may not be distributed without the author's permission in any
> * shape or form. The author takes no responsibility for any damage or loss
> * of property which results from the use of this software.
>
> so I thought I'd ask your permission to distribute your files if I can
figure out how to make it all work with ntpd.

http://coombs.anu.edu.au/~avalon/arlib.tar.gz

a few bug fixes (inc. buffer overflow :) and stuff in there.

But otherwise, go for it.

Darren

2.23 src/contrib/ntp/libopts 4.2.4p5

2.23.1 Available under license:

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Version 2.1, February 1999

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2.24 src/contrib/ntp/sntp 4.2.4p5

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2.26 src/contrib/one-true-awk 20121220

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2.30 src/contrib/smbfs 8.4

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Motorola 68020 20mhz, NetBSD

SSLeay 0.9.0t 29-May-1998
built on Fri Jun 5 12:42:23 EST 1998
options:bn(64,32) md2(char) rc4(idx,int) des(idx,cisc,16,long) idea(int) blowfish(idx)
C flags:gcc -DTERMIOS -O3 -fomit-frame-pointer -Wall -DB_ENDIAN
The 'numbers' are in 1000s of bytes per second processed.
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
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<th>64 bytes</th>
<th>256 bytes</th>
<th>1024 bytes</th>
<th>8192 bytes</th>
</tr>
</thead>
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<tr>
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<td>des ede3</td>
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<td></td>
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<td>rsa 1024 bits</td>
<td>0.045s</td>
<td></td>
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</tr>
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<td>rsa 2048 bits</td>
<td>0.260s</td>
<td></td>
<td></td>
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<tr>
<td>rsa 4096 bits</td>
<td>1.690s</td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2.35 src/crypto.openssl/crypto/bf 8.4
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.
However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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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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2.38 src/gnu/lib/libdialog 8.4
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2.42 src/lib/libc/regex alpha3.4

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2.43 src/lib/libc/rpc 8.4

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2.54 src/sys/xen/interface 8.4

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2.55 src/tools/regression/fstest 8.4
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2.56 src/tools/regression/mac/mac_portacl

8.4

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2.58 src/usr.bin/lex 8.4

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