



# Open Source Used In Cisco WDR IP Cameras Release 2.7.1

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## 1.2 base64 0.00.00B

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## 1.3 bridge-utils 1.2

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'zlib' general purpose compression library  
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Theodore Ts'o  
23-June-2007

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

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# 1.15 ffmpeg 1.1

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Specifically, the GPL parts of FFmpeg are

- libpostproc
- libmpcodecs
- optional x86 optimizations in the files  
libavcodec/x86/idct\_mmx.c
- libutvideo encoding/decoding wrappers in  
libavcodec/libutvideo\*.cpp
- the X11 grabber in libavdevice/x11grab.c
- the swresample test app in  
libswresample/swresample-test.c
- the texi2pod.pl tool
- the following filters in libavfilter:
  - f\_ebur128.c
  - vf\_blackframe.c
  - vf\_boxblur.c
  - vf\_colormatrix.c
  - vf\_croptdetect.c
  - vf\_decimate.c
  - vf\_delogo.c
  - vf\_geq.c
  - vf\_histeq.c
  - vf\_hqdn3d.c
  - vf\_hue.c
  - vf\_kerndeint.c
  - vf\_mp.c
  - vf\_pp.c
  - vf\_smartblur.c
  - vf\_super2xsai.c
  - vf\_tinterlace.c

- vf\_yadif.c
- vsrc\_mptestsrc.c

There are a handful of files under other licensing terms, namely:

\* The files libavcodec/jfdctfst.c, libavcodec/jfdctint\_template.c and libavcodec/jrevdct.c are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.

Should you, for whatever reason, prefer to use version 3 of the (L)GPL, then the configure parameter --enable-version3 will activate this licensing option for you. Read the file COPYING.LGPLv3 or, if you have enabled GPL parts, COPYING.GPLv3 to learn the exact legal terms that apply in this case.

#### external libraries

=====

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

#### compatible libraries

-----

The libcdio, libx264, libxavs and libxvid libraries are under GPL. When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing --enable-gpl to configure.

The OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing --enable-version3 to configure.

#### incompatible libraries

-----

The Fraunhofer AAC library, FAAC and aacplus are under licenses which are incompatible with the GPLv2 and v3. We do not know for certain if their licenses are compatible with the LGPL.

If you wish to enable these libraries, pass --enable-nonfree to configure.

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# 1.16 ffmpeg\_v2 1.1

## 1.16.1 Available under license :

FFmpeg:

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Some optional parts of FFmpeg are licensed under the GNU General Public License version 2 or later (GPL v2+). See the file COPYING.GPLv2 for details. None of these parts are used by default, you have to explicitly pass `--enable-gpl` to configure to activate them. In this case, FFmpeg's license changes to GPL v2+.

Specifically, the GPL parts of FFmpeg are

- libpostproc
- libmpcodecs
- optional x86 optimizations in the files  
libavcodec/x86/idct\_mmx.c
- libutvideo encoding/decoding wrappers in  
libavcodec/libutvideo\*.cpp
- the X11 grabber in libavdevice/x11grab.c
- the swresample test app in  
libswresample/swresample-test.c
- the texi2pod.pl tool
- the following filters in libavfilter:
  - f\_ebur128.c
  - vf\_blackframe.c
  - vf\_boxblur.c
  - vf\_colormatrix.c
  - vf\_croptdetect.c
  - vf\_decimate.c
  - vf\_delogo.c
  - vf\_geq.c
  - vf\_histeq.c
  - vf\_hqdn3d.c
  - vf\_hue.c
  - vf\_kerndeint.c
  - vf\_mp.c
  - vf\_pp.c
  - vf\_smartblur.c
  - vf\_super2xsai.c
  - vf\_tinterlace.c
  - vf\_yadif.c

- vsrc\_mptestsrc.c

There are a handful of files under other licensing terms, namely:

\* The files libavcodec/jfdctfst.c, libavcodec/jfdctint\_template.c and libavcodec/jrevdct.c are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.

Should you, for whatever reason, prefer to use version 3 of the (L)GPL, then the configure parameter --enable-version3 will activate this licensing option for you. Read the file COPYING.LGPLv3 or, if you have enabled GPL parts, COPYING.GPLv3 to learn the exact legal terms that apply in this case.

#### external libraries

=====

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

#### compatible libraries

-----

The libcdio, libx264, libxavs and libxvid libraries are under GPL. When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing --enable-gpl to configure.

The OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing --enable-version3 to configure.

#### incompatible libraries

-----

The Fraunhofer AAC library, FAAC and aacplus are under licenses which are incompatible with the GPLv2 and v3. We do not know for certain if their licenses are compatible with the LGPL.

If you wish to enable these libraries, pass --enable-nonfree to configure. But note that if you enable any of these libraries the resulting binary will be under a complex license mix that is more restrictive than the LGPL and that may result in additional obligations. It is possible that these restrictions cause the resulting binary to be unredistributable.

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Version 2, June 1991

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## 1.19 i2c-tools 3.0.0

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## 1.22 jpeg 6b

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### 1.22.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW	General description of JPEG and the IJG software.
LEGAL ISSUES	Copyright, lack of warranty, terms of distribution.
REFERENCES	Where to learn more about JPEG.

ARCHIVE LOCATIONS Where to find newer versions of this software.

RELATED SOFTWARE Other stuff you should get.

FILE FORMAT WARS Software \*not\* to get.

TO DO Plans for future IJG releases.

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.

coderrules.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.

For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see **LEGAL ISSUES**. We have made no provision for supporting 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 "djpeg", 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 **REFERENCES** section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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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.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (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 best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

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:

Literature Department  
C-Cube Microsystems, Inc.  
1778 McCarthy Blvd.  
Milpitas, CA 95035  
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

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

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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](mailto: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` archive at [rtfm.mit.edu](http://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/): <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>. If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body

- send `usenet/news.answers/jpeg-faq/part1`
- send `usenet/news.answers/jpeg-faq/part2`

## RELATED SOFTWARE

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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 PBPLUS 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

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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

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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](mailto:jpeg-info@uunet.uu.net).

\*

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```

/*
* Usage:
ansi2knr input_file [output_file]
* If no output_file is supplied, output goes to stdout.
* There are no error messages.
*
* ansi2knr recognizes function definitions by seeing a non-keyword
* identifier at the left margin, followed by a left parenthesis,
* with a right parenthesis as the last character on the line,
* and with a left brace as the first token on the following line
* (ignoring possible intervening comments).
* It will recognize a multi-line header provided that no intervening
* line ends with a left or right brace or a semicolon.
* These algorithms ignore whitespace and comments, except that
* the function name must be the first thing on the line.
* The following constructs will confuse it:
* - Any other construct that starts at the left margin and
*   follows the above syntax (such as a macro or function call).
* - Some macros that tinker with the syntax of the function header.
*/

/*
* The original and principal author of ansi2knr is L. Peter Deutsch
* <ghost@aladdin.com>. Other authors are noted in the change history
* that follows (in reverse chronological order):
lpd 96-01-21 added code to cope with not HAVE_CONFIG_H and with
compilers that don't understand void, as suggested by
Tom Lane
lpd 96-01-15 changed to require that the first non-comment token
on the line following a function header be a left brace,
to reduce sensitivity to macros, as suggested by Tom Lane
<tgl@sss.pgh.pa.us>
lpd 95-06-22 removed #ifneds whose sole purpose was to define
undefined preprocessor symbols as 0; changed all #ifneds
for configuration symbols to #ifs
lpd 95-04-05 changed copyright notice to make it clear that
including ansi2knr in a program does not bring the entire
program under the GPL
lpd 94-12-18 added conditionals for systems where ctype macros
don't handle 8-bit characters properly, suggested by
Francois Pinard <pinard@iro.umontreal.ca>;
removed --varargs switch (this is now the default)
lpd 94-10-10 removed CONFIG_BROKETS conditional
lpd 94-07-16 added some conditionals to help GNU `configure',
suggested by Francois Pinard <pinard@iro.umontreal.ca>;
properly erase prototype args in function parameters,
contributed by Jim Avera <jima@netcom.com>;
correct error in writeblanks (it shouldn't erase EOLs)

```

## 1.23 libol 0.3.18

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Version 2, June 1991

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

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

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

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

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

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

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## 1.25 libusb-compat 0.1.0 :r0

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for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>  
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>  
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>  
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>  
for the or51211 and or51132 frontend drivers, and  
for merging the nxt2002 and nxt2004 modules into a  
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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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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lldpd: implementation of IEEE 802.1ab (LLDP)

=====

[![Build Status](https://secure.travis-ci.org/vincentbernat/lldpd.png?branch=master)](http://travis-ci.org/vincentbernat/lldpd)

<http://vincentbernat.github.com/lldpd/>

## Features

-----

LLDP (Link Layer Discovery Protocol) is an industry standard protocol designed to supplant proprietary Link-Layer protocols such as Extreme's EDP (Extreme Discovery Protocol) and CDP (Cisco Discovery Protocol). The goal of LLDP is to provide an inter-vendor compatible mechanism to deliver Link-Layer notifications to adjacent network devices.

lldpd implements both reception and sending. It also implements an SNMP subagent for net-snmp to get local and remote LLDP information. The LLDP MIB is partially implemented but the most useful tables are here. lldpd also partially implements LLDP-MED.

lldpd supports bridge, vlan and bonding. bonding need to be done on real physical devices, not on bridges, vlans, etc. However, vlans can be mapped on the bonding device. You can bridge vlan but not add vlans on bridges. More complex setups may give false results.

The following OS are supported:

- \* FreeBSD
- \* GNU/Linux
- \* NetBSD
- \* OpenBSD
- \* Mac OS X

## Installation

-----

To compile lldpd, use the following:

```
./configure
make
sudo make install
```

You need libevent that you can grab from <http://libevent.org> or install from your package system (libevent-dev for Debian/Ubuntu and libevent-devel for Redhat/Fedora/CentOS/SuSE).

If your system does not have libevent, ./configure will use the shipped copy and compile it statically.

If it complains about a missing agent/struct.h, your installation of

Net-SNMP is incomplete. The easiest way to fix this is to provide an empty struct.h:

```
touch src/struct.h
```

lldpd uses privilege separation to increase its security. Two processes, one running as root and doing minimal stuff and the other running as an unprivileged user into a chroot doing most of the stuff, are cooperating. You need to create a user called '\_lldpd' in a group '\_lldpd' (this can be change with './configure'). You also need to create an empty directory '/var/run/lldpd' (it needs to be owned by root, not '\_lldpd!'). If you get fuzzy timestamps from syslog, copy '/etc/locatime' into the chroot.

'lldpcli' lets one query information collected through the command line. If you don't want to run it as root, just install it setuid or setgid '\_lldpd'.

#### Installation (Mac OS X)

-----  
The same procedure as above applies for Mac OS X. However, there are simpler alternatives:

1. Use [Homebrew](<http://mxcl.github.io/homebrew/>):

```
brew install lldpd
# Or, for the latest version:
brew install https://raw.githubusercontent.com/vincentbernat/lldpd/master/osx/lldpd.rb
```

2. Build an OSX installer package which should work on the same version of OS X (it is important to use a separate build directory):

```
mkdir build && cd build
../configure --prefix=/usr --sysconfdir=/etc --with-embedded-libevent
make -C osx pkg ARCHS="i386 x86_64"
```

If you want to compile for an older version of Mac OS X, you need to find the right SDK and issues commands like those:

```
SDK=/Developer/SDKs/MacOSX10.6.sdk
mkdir build && cd build
../configure --prefix=/usr --sysconfdir=/etc --with-embedded-libevent \
  CFLAGS="-mmacosx-version-min=10.6 -isysroot $SDK" \
  LDFLAGS="-mmacosx-version-min=10.6 -isysroot $SDK"
make -C osx pkg ARCHS="i386 x86_64"
```

If you don't follow the above procedures, you will have to create the user/group '\_lldpd'. Have a look at how this is done in 'osx/scripts/postinstall'.

## Usage

-----

lldpd also implements CDP (Cisco Discovery Protocol), FDP (Foundry Discovery Protocol), SONMP (Nortel Discovery Protocol) and EDP (Extreme Discovery Protocol). However, recent versions of IOS should support LLDP and most Extreme stuff support LLDP. When a EDP, CDP or SONMP frame is received on a given interface, lldpd starts sending EDP, CDP, FDP or SONMP frame on this interface. Informations collected through EDP/CDP/FDP/SONMP are integrated with other informations and can be queried with 'lldpcli' or through SNMP.

For bonding, you need 2.6.24 (in previous version, PACKET\_ORIGDEV affected only non multicast packets). See:

- \* <http://git.kernel.org/?p=linux/kernel/git/torvalds/linux-2.6.git;a=commitdiff;h=80feaacb8a6400a9540a961b6743c69a5896b937>
- \* <http://git.kernel.org/?p=linux/kernel/git/torvalds/linux-2.6.git;a=commitdiff;h=8032b46489e50ef8f3992159abd0349b5b8e476c>

Otherwise, a packet received on a bond will be affected to all interfaces of the bond.

On 2.6.27, we are able to receive packets on real interface for bonded devices. This allows one to get neighbor information on active/backup bonds. Without the 2.6.27, lldpd won't receive any information on inactive slaves. Here are the patches (thanks to Joe Eykholt):

- \* <http://git.kernel.org/?p=linux/kernel/git/torvalds/linux-2.6.git;a=commit;h=0d7a3681232f545c6a59f77e60f7667673ef0e93>
- \* <http://git.kernel.org/?p=linux/kernel/git/torvalds/linux-2.6.git;a=commit;h=cc9bd5cebc0825e0fab0186ab85806a0891104f>
- \* <http://git.kernel.org/?p=linux/kernel/git/torvalds/linux-2.6.git;a=commit;h=f982307f22db96201e41540295f24e8dcc10c78f>

On FreeBSD, only a recent 9 kernel (9.1 or more recent) will allow to send LLDP frames on enslaved devices. See this bug report for more information:

- \* <http://www.freebsd.org/cgi/query-pr.cgi?pr=138620>

Some devices (notably Cisco IOS) send frames on the native VLAN while they should send them untagged. If your network card does not support accelerated VLAN, you will receive those frames as well. However, if

your network card handles VLAN encapsulation/decapsulation, you need a recent kernel to be able to receive those frames without listening on all available VLAN. Starting from Linux 2.6.27, lldpd is able to capture VLAN frames when VLAN acceleration is supported by the network card. Here is the patch:

<http://git.kernel.org/?p=linux/kernel/git/torvalds/linux-2.6.git;a=commit;h=bc1d0411b804ad190cdadabac48a10067f17b9e6>

More information:

- \* [http://en.wikipedia.org/wiki/Link\\_Layer\\_Discovery\\_Protocol](http://en.wikipedia.org/wiki/Link_Layer_Discovery_Protocol)
- \* <http://standards.ieee.org/getieee802/download/802.1AB-2005.pdf>
- \* <http://wiki.wireshark.org/LinkLayerDiscoveryProtocol>

## Development

-----

During development, you may want to execute lldpd at its current location inside of doing 'make install'. The correct way to do this is to issue the following command:

```
sudo libtool execute src/daemon/lldpd -L $PWD/src/client/lldpcli -d
```

You can append any further arguments. If lldpd is unable to find 'lldpcli' it will start in an unconfigured mode and won't send or accept LLDP frames.

## Embedding

-----

To embed lldpd into an existing system, there are two point of entries:

1. If your system does not use standard Linux interface, you can support additional interfaces by implementing the appropriate 'struct lldpd\_ops'. You can look at 'src/daemon/interfaces-linux.c' for examples. Also, have a look at 'interfaces\_update()' which is responsible for discovering and registering interfaces.
2. 'lldpcli' provides a convenient way to query 'lldpd'. It also comes with various outputs, including XML which allows one to parse its output for integration and automation purpose. Another way is to use SNMP support. A third way is to write your own controller using 'liblldpctl.so'. Its API is described in 'src/lib/lldpctl.h'. The custom binary protocol between 'liblldpctl.so' and 'lldpd' is not stable. Therefore, the library should always be shipped with 'lldpd'. On the other hand, programs using 'liblldpctl.so' can rely on the classic ABI rules.



## Troubleshooting

-----

You can use 'tcpdump' to look after the packets received and send by 'lldpd'. To look after LLDPDU, use:

```
tcpdump -s0 -vv -pni eth0 ether dst 01:80:c2:00:00:0e
```

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Also, 'lldpcli' will be linked to GNU Readline (which is GPL licensed) if available. To avoid this, use '--without-readline' as a configure option.

# 1.30 logrotate 3.8.2

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## 1.31 mDNSResponder 107.6

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## 1.32 msmtip 1.4.12

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directory, is distributed under the same terms as the software itself.

The basic library functions are written in C and are freestanding. Also  
included in the distribution is a set of C++ wrapper functions.

THE BASIC LIBRARY FUNCTIONS

-----

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

University of Cambridge Computing Service,  
Cambridge, England.

## THE C++ WRAPPER FUNCTIONS

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/\* Implementation of the dcgettext(3) function.

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2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

Yes. A RPM or Debian package is a "larger software package" to begin with, and you aren't selling them independently by themselves. See 1. above.

3. Are derivative works allowed?

Yes!

4. Can I change or add to the font(s)?

Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

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6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

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```
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```

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```
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```

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

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/\* Declarations for termcap library.

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```
#ifndef _TERMCAP_H
#define _TERMCAP_H 1

#include <features.h>
#include <termios.h>
#include <sys/types.h>

extern char PC;
extern char *UP;
extern char *BC;

#ifdef __linux__
extern speed_t ospeed;
#else
extern short ospeed;
#endif

__BEGIN_DECLS

typedef int (*outfuntype) __P((int));

extern int tgetent __P((void *__buffer, __const char *__termtype));
extern int tgetflag __P((__const char *__name));
extern int tgetnum __P((__const char *__name));
extern char *tgetstr __P((__const char *__name, char **__area));
extern char *tgoto __P((__const char *__cstring, int __hpos,
int __vpos));
extern char *tparam __P((__const char *__ctlstring, void *__buffer,
int __size, ...));
extern void tputs __P((__const char *__string, int __nlines,
int (*) __P((int))));

__END_DECLS
```

```

#endif /* not _TERMCAP_H */
/*
 * termcap.c Replacement for the GNU Emacs termcap routines.
 * These do more error checking, like preventing a loop
 * with the tc= capability and buffer overflow.
 * Also, these routines can stuff a whole lot more in
 * one buffer because duplicate capabilities are eliminated.
 *
 * Version: 1.3 15-Apr-1996 MvS (miquels@cistron.nl)
 *
 * Changelog 1.0 ??-Sep-1994 MvS Initial version
 * 1.1 20-Oct-1994 MvS (Broken) version for libc 4.5.19
 * 1.2 13-Dec-1994 MvS Fixed '\ escapes, disabled the
 *      multiple char. capability names.
 * 1.3 15-Apr-1996 MvS Ignore entries starting with '.'
 *      Preprocess escaped entries
 *
 * Copyright (C) Miquel van Smoorenburg 1994,1995,1996
 * This code falls under the LGPL.
 */
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <malloc.h>
#include <string.h>
#include <sys/ioctl.h>
#include <termios.h>
#include <termcap.h>

/* Escape sequences we know about. */
static char *escapes = "E\\033r\\rn\\nb\\bt\\tf\\f\\|\\|\\|";

/* Pointer for tgetstr() et al */
static char *term_entry;
static int is_malloced;

/* Table with speeds for padding. */
static short speeds[] = {
    0, 50, 75, 110, 134, 150, -3, -6, -12, -18,
    -20, -24, -36, -48, -72, -96, -192, -384, -576, -1152
};

/* Some (undocumented?) global variables. */
speed_t ospeed;
int tputs_baud_rate;
char PC;
int tgetent_bufsize = 1024;

```

```
/* We store a terminal description in a linked list. */
```

```
struct tc_ent {  
    struct tc_ent *next;  
    char cap[1];  
};
```

```
/* Safe malloc. */
```

```
static void *xmalloc(int len)  
{  
    void *x;  
  
    if ((x = malloc(len)) != NULL) return(x);  
    write(2, "Virtual memory exhausted.\n", 26);  
    exit(1);  
}
```

```
/* Safe strdup() */
```

```
static char *strsave(char *s)  
{  
    char *x;  
  
    x = xmalloc(strlen(s) + 1);  
    strcpy(x, s);  
    return(x);  
}
```

```
/*
```

```
 * Try to shrink a capability.
```

```
*/
```

```
static void shrinkcap(char *r, char *s)  
{  
    char *start, *sp;  
    int len, c, i;
```

```
/* Translate escaped characters and hat-notation. */
```

```
while((c = *s++)) {  
    start = s - 1;  
    if (c == '\\') {
```

```
        /* Escaped character. */
```

```
        c = *s++;
```

```
        if (c >= '0' && c <= '9') {
```

```
            /* Octal number. */
```

```
            c -= '0';
```

```
            i = 0;
```

```
            while(*s >= '0' && *s <= '9' && ++i < 3) {
```

```
                c = (c * 8) + (*s - '0');
```

```

    s++;
}
} else {
/* \r or \n or whatever. */
for(sp = escapes; *sp; sp += 2)
    if (c == *sp) {
        c = *++sp;
        break;
    }
}
} else if (c == '^')
/* Hat notation. */
c = *s++ & 0x1f;

/* See if we want to translate. */
if ((c & 0x7f) > 31)
    *r++ = c;
else {
    len = s - start;
    strncpy(r, start, len);
    r += len;
}
}
*r++ = 0;
}

/* Build a linked list with capabilities. */
static char *build_list(struct tc_ent **listp, char *buf)
{
    struct tc_ent *i, *last = NULL, *list = *listp;
    char *s, *sp, *bp;
    int len;
    char *tc_next = NULL;

/* Skip name field. */
for(sp = buf; *sp && *sp != ':'; sp++)
;
if (*sp) *sp++ = 0;

/* Extract capabilities one-by-one. */
while(*sp) {
/* Find end of field. */
bp = sp;
while(*sp && *sp != ':') {
/* Allow escaped ':' */
if (*sp == '\\' && sp[1] == ':') sp++;
sp++;
}

```



```

if (*sp) *sp++ = 0;

/* Check for empty field or comments. */
while(*bp == ' ' || *bp == '\t' || *bp == '\n') bp++;
if (*bp == 0 || *bp == ':' || *bp == '.') continue;

/* Is this the "tc" capability? */
if (!tc_next && strncmp(bp, "tc=", 3) == 0) {
    tc_next = strsave(bp + 3);
    continue;
}

/* Find name of capability. */
if ((s = strchr(bp, '=')) != NULL)
    len = s - bp;
else if ((s = strchr(bp, '@')) != NULL)
    len = s - bp;
else if ((s = strchr(bp, '#')) != NULL)
    len = s - bp;
else len = strlen(bp);
if (len == 0) continue;

/* See if the capability is already in the list. */
if (list) {
    for(i = list; i; i = i->next) {
        last = i;
        if (strncmp(i->cap, bp, len) == 0) break;
    }
}
if (list != NULL && i != NULL) continue;

/* Add capability to the list. */
i = (struct tc_ent *)xmalloc(sizeof(struct tc_ent) + strlen(bp));
if (i == NULL) break;
shrinkcap(i->cap, bp);
i->next = NULL;
if (list == NULL)
    list = i;
else
    last->next = i;
}

/* Done. */
*listp = list;
return(tc_next);
}

/* Add OR change a capability (hardcoded for li# and co#) */
static void add_list(struct tc_ent **list, char *cap)

```

```

{
    struct tc_ent *prev, *new, *l;

    /* Walk through the list. */
    prev = NULL;
    for(l = *list; l; l = l->next) {
        if (strcmp(l->cap, cap, 3) == 0) {

            /* Found: modify in-place. */
            new = xmalloc(sizeof(struct tc_ent) + strlen(cap));
            strcpy(new->cap, cap);
            new->next = l->next;
            if (prev)
                prev->next = new;
            else
                *list = new;
            free(l);
            l = new;
            break;
        }
        prev = l;
    }
    if (l != NULL) return;

    /* Not found, add to the end of the list. */
    new = xmalloc(sizeof(struct tc_ent) + strlen(cap));
    strcpy(new->cap, cap);
    new->next = NULL;
    if (prev)
        prev->next = new;
    else
        *list = new;
    }

    /* Convert a number to ASCII */
    static char *_itoa(int num, char *buf)
    {
        char *sp = buf + 16;

        *--sp = 0;
        do {
            *--sp = (num % 10) + '0';
            num /= 10;
        } while(num);
        return(sp);
    }

    /* Adjust lines and columns by doing a TIOCGWINSZ */

```

```

static void adjust_lines_cols(struct tc_ent **)
{
    struct winsize ws;
    char buf[16];
    char num[16];

    /* Get and check window size. */
    if (ioctl(0, TIOCGWINSZ, &ws) < 0 || !ws.ws_row || !ws.ws_col)
        return;

    /* Fill in li# and co# */
    strcpy(buf, "li#");
    strcpy(buf + 3, _itoa(ws.ws_row, num));
    add_list(1, buf);

    strcpy(buf, "co#");
    strcpy(buf + 3, _itoa(ws.ws_col, num));
    add_list(1, buf);
}

/* See if strings contains terminal name. */
static int tc_comp(char *line, char *term)
{
    char *sp, *bp;
    int found = 0, x;
    int len = strlen(term);

    bp = sp = line;
    x = *bp;
    while(x && x != ':' && x != '\n') {
        /* Find the end of this description. */
        while(*sp && *sp != ':' && *sp != '|' && *sp != '\n')
            sp++;
        if (len == (sp - bp) && strncmp(term, bp, len) == 0) {
            /* Found it! */
            found = 1;
            break;
        }
        x = *sp++;
        bp = sp;
    }
    return(found);
}

/* Load a specific terminal. */
static char *get_one_entry(FILE *tfp, char *term)
{

```

```

char line[256];
int status = 0;
char *sp;
char buf[4096];
char *bufp = buf;

if (term == NULL) return(NULL);

/* Start at beginning. */
rewind(tfp);

/* Read line by line. */
while(fgets(line, 256, tfp) != NULL) {
    if (line[0] == '#') continue;

    /* See if this is what we're looking for. */
    if (status == 0 && tc_comp(line, term) == 0) continue;
    status = 1;

    /* We are reading a description here. */
    for(sp = line; *sp == ' ' || *sp == '\t'; sp++)
        ;

    /* Add the rest until nl to the buffer. */
    while(*sp && *sp != '\n') {
        if (*sp == '\\' && (*(sp + 1) == '\n')) break;
        *bufp++ = *sp++;
        if (bufp - buf > 4092) {
            /* Buffer full, quit. */
            *sp = '\n';
            break;
        }
    }
    if (*sp == '\n') break;
}

/* Save buffer to malloced area. */
*bufp++ = 0;
if (status == 0) return(NULL);
if ((sp = xmalloc(bufp - buf)) == NULL) return(sp);
memcpy(sp, buf, bufp - buf);
return(sp);
}

/* Read terminal description. */
static char *tc_read(struct tc_ent **tcp, char *term)
{
    FILE *fp;

```

```

char *sp, *tc;
char *desc = NULL;
char *tc_file = "/etc/termcap";
struct tc_ent *l = NULL;
int first = 1;
int loop = 0;

*tcp = NULL;

/* See if we have a TERMCAP environment variable. */
if ((tc = getenv("TERMCAP")) != NULL) {
    if (*tc == '/')
        tc_file = tc;
    else {
        /* check if TERMCAP is term */
        if (tc_comp(tc, term)) {
#ifdef DEBUG
            printf("Using TERMCAP\n");
#endif
            /* Just read the TERMCAP variable. */
            sp = strsave(tc);
            tc = build_list(&l, sp);
            if (tc) free(tc);
            *tcp = l;
            return(sp);
        }
    }
}

#ifdef DEBUG
    printf("Using file %s\n", tc_file);
#endif

/* Now read the termcap file. */
if ((fp = fopen(tc_file, "r")) == NULL) return(NULL);

while(term) {
    if (++loop > 16) {
        write(2, "tgetent: loop detected, check your termcap\n", 43);
        break;
    }
#ifdef DEBUG
        printf("LOOKUP: term %s\n", term);
#endif
    sp = get_one_entry(fp, term);
    if (sp == NULL) break;
    term = build_list(&l, sp);
    if (first)

```

```

    desc = sp;
else
    free(sp);
first = 0;
}
fclose(fp);

/* Done. */
*tcp = 1;
#ifdef DEBUG
printf(">> tc_read done, desc = %s\n", desc);
#endif
return(desc ? desc : "");
}

/* The tgetent function. */
int tgetent(void *buffer, const char *term)
{
    char *s;
    struct tc_ent *l, *i, *next;
    char *bp, *sp = (char *)buffer;
    int len, count, maxlen;

    /* Find the termcap entry. */
    s = tc_read(&l, (char *)term);

    /* Return -1 if we can't open the termcap file. */
    if (s == NULL) return(-1);

    /* Return 0 if the entry is not present. */
    if (l == NULL)
    {
        /* For compatibility with programs like 'less' that want to
           put data in the termcap buffer themselves as a fallback. */
        if (buffer)
        {
            term_entry = buffer;
        }
        return(0);
    }

    /* Adjust lines and columns. */
    adjust_lines_cols(&l);

    /* Free old buffer if possible. */
    if (is_malloced && term_entry) free(term_entry);

```

```

/* Do we already have a buffer? */
if (sp) {
    maxlen = tgetent_bufsize - 1;
    is_malloced = 0;
} else {
    /* Count how many bytes we need. */
    count = strlen(s) + 1;
    for(i = 1; i; i = i->next)
        count += strlen(i->cap) + 1;
    count++;

    /* Malloc this amount. */
    sp = xmalloc(count);
    maxlen = count + 32; /* Just a lot. */
    is_malloced = 1;
}

/* Save buffer into static variable (yuk!) */
term_entry = sp;

/* First copy the description to the buffer. */
count = 0;
for(bp = s; *bp; bp++) {
    *sp++ = *bp;
    count++;
}
*sp++ = '.';
count++;

/* And now the capabilities. */
for(i = 1; i; i = next) {

    /* Is this a 'skip' capability? */
    len = strlen(i->cap);
    if (strchr(i->cap, '=') == NULL && i->cap[len-1] == '@') {
        next = i->next;
        free(i);
        continue;
    }

    /* Check for buffer overflow. */
    count += len + 1;
    if (count >= maxlen) {
        write(2, "tgetent: warning: termcap entry too long\n", 41);
        break;
    }

    /* Add capability to buffer. */

```

```

for(bp = i->cap; *bp; bp++)
    *sp++ = *bp;
*sp++ = '.';

/* Free space. */
next = i->next;
free(i);
}
*sp = 0;

return(1);
}

/* Generic "find capability" routine. */
static char *find_cap(char *bp, const char *cap, char sep)
{
    #if MULTIPLE_CHAR_CAP /* Disabled because it breaks some programs */
    int len = strlen(cap);

    if (len == 2) {
    #endif
        /* Normal case, do fast lookup. */
        while(*bp) {
            if (bp[0] == '.' &&
                bp[1] == cap[0] &&
                bp[2] == cap[1] &&
                bp[3] == sep) return(bp + 4);
            bp++;
        }
        return(NULL);
    #if MULTIPLE_CHAR_CAP
    }
    /* Longer string, use slow lookup. */
    while(*bp) {
        if (bp[0] == '.' && bp[len+1] == sep && strncmp(bp+1, cap, len) == 0)
            return(bp + len + 2);
        bp++;
    }
    return(NULL);
    #endif
}

/* Find a number capability. */
int tgetnum(const char *cap)
{
    char *s;

    s = find_cap(term_entry, cap, '#');

```



```

return(s ? atoi(s) : -1);
}

/* Find a boolean capability. */
int tgetflag(const char *cap)
{
    return(find_cap(term_entry, cap, ':') ? 1 : 0);
}

/* Find a string capability. */
char *tgetstr(const char *cap, char **bufp)
{
    char *s;
    char *sp, *r, *ret;
    int c, i;

    s = find_cap(term_entry, cap, '=');
    if (s == NULL) return(s);

    /* Where to put the result. */
    if (bufp == (char **)NULL) {
        for(sp = s; *sp != ':' && *sp; sp++) {
            if (*sp == '\\' && sp[1] == ':') sp++;
        }
        ret = xmalloc(sp - s + 1);
    } else
        ret = *bufp;
    r = ret;

    /* Translate escaped characters and hat-notation. */
    while((c = *s++) && c != ':') {
        if (c == '\\') {

            /* Escaped character. */
            c = *s++;

            if (c >= '0' && c <= '9') {
                /* Octal number. */
                c -= '0';
                i = 0;
                while(*s >= '0' && *s <= '9' && ++i < 3) {
                    c = (c * 8) + (*s - '0');
                    s++;
                }
            } else {
                /* \r or \n or whatever. */
                for(sp = escapes; *sp; sp += 2)
                    if (c == *sp) {

```

```

        c = *++sp;
        break;
    }
}
} else if (c == '^')
/* Hat notation. */
c = *s++ & 0x1f;
*r++ = c;
}
*r++ = 0;

/* Do we need to update bufp? */
if (bufp) *bufp = r;

return(ret);
}

/* Output string with padding - stolen from GNU termcap.c :) */
void tputs(const char *str, int nlines, int (*outfun)(int))
{
    int padcount = 0;
    int speed, spd;

    /* Safety check. */
    if (!str) return;

    /* Try to get output speed. */
    spd = ospeed;
#ifdef B38400
    /* We can't usually trust the speed constants > 38400. */
    if (ospeed > B38400) spd = B38400;
#endif
    if (spd == 0)
        speed = tputs_baud_rate;
    else
        speed = speeds[spd];

    /* Read padding information. */
    while (*str >= '0' && *str <= '9') {
        padcount += *str++ - '0';
        padcount *= 10;
    }
    if (*str == '.') {
        str++;
        padcount += *str++ - '0';
    }
    if (*str == '*') {
        str++;

```

```

    padcount *= nlines;
}

/* Now output the capability string. */
while (*str)
    (*outfun) (*str++);

/* Do we need padding? */
if (padcount == 0) return;

/* padcount is now in units of tenths of msec. */
padcount *= speeds[ospeed];
padcount += 500;
padcount /= 1000;
if (speeds[ospeed] < 0)
    padcount = -padcount;
else {
    padcount += 50;
    padcount /= 100;
}

/* And output the pad character. */
while (padcount-- > 0)
    (*outfun) (PC);
}

#ifdef TEST
/* ARGSUSED */
int main(int argc, char **argv)
{
    char buf[1024];
    char *s;
    char *ts;

    if (tgetent(buf, argv[1]) != 1) exit(1);

    printf("%s\n\n", term_entry);

    ts = tgetstr("Sf", NULL);
    if (ts == NULL) ts = "not found";
    for(s = ts; s && *s; s++) if (*s == '\033') *s = '*';

    s = tgetstr("cm", NULL);
    if (s && *s == '\033') *s = '?';

    printf("tgetflag(li) = %d\n", tgetflag("li"));
    printf("tgetflag(mi) = %d\n", tgetflag("mi"));
}

```

```

printf("tgetstr(cm) = [%s]\n", s);
printf("tgetstr(ks) = [%s]\n", tgetstr("ks", NULL));
printf("tgetnum(li) = %d\n", tgetnum("li"));
printf(">> arg res(ts, 5, 5) = %s\n", tgoto(ts, 5, 5));
return(0);
}
#endif

```

## 1.44 tnftp 2007.08.06

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## 1.45 tunc1 1.5

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## 1.46 u-boot-2010.09 2010.09

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