Open Source Used In Cisco Video Surveillance 6000 Series IP Cameras 2.10.0

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'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 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 2 of the License, or (at your option) any later version.

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

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

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

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

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

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

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

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

1.11 e2fsprogs 1.42.8
1.11.1 Available under license:

This package, the EXT2 filesystem utilities, are made available under
the GNU Public License version 2, with the exception of the lib/ext2fs
and lib/e2p libraries, which are made available under the GNU Library
General Public License Version 2, the lib/uuid library which is made
available under a BSD-style license and the lib/et and lib/ss
libraries which are made available under an MIT-style license. Please
see lib/uuid/COPYING for more details for the license for the files
comprising the libuuid library, and the source file headers of the
libet and libss libraries for more information.

The most recent officially distributed version can be found at
http://e2fsprogs.sourceforge.net. If you need to make a distribution,
that's the one you should use. If there is some reason why you'd like
a more recent version that is still in ALPHA testing (i.e., either
using the "WIP" test distributions or one from the hg or git
repository from the development branch, please contact me
(tytso@mit.edu) before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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Version 2, June 1991

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Preamble

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

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

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

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

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

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

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

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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

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

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 License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

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

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, 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) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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

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

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

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

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

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

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.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

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

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Version 2, June 1991

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

Preamble

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

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

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

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1.15 fetchmail 6.3.8

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Specifically, the GPL parts of FFmpeg are

- libpostproc
- libmpcdec
- 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:
  - _ebur128.c
  - _blackframe.c
  - _boxblur.c
  - _colormatrix.c
  - _cropdetect.c
  - _decimate.c
  - _delogo.c
  - _geq.c
  - _histeq.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
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FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

compatible libraries
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The libcdio, libx264, libavx 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
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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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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.
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. 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 "jpegtan", 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 inards 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 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 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: 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 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
PBMPPLUS 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 PBMPPLUS/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.

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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 #ifndefs whose sole purpose was to define
 undefined preprocessor symbols as 0; changed all #ifdefs
 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)
lpd 89-xx-xx original version
*/

1.24 libmicrohttpd 0.9.49

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1.27 libusb-compat 0.1.0 :r0

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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
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QLogic Linux Fibre Channel HBA Driver

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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 $Revision: 1.1 $ $Date: 1999/08/20 11:00:11 $ */
*/ 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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for his contributions to the dvb-net driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
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single nxt200x frontend driver.

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FlashPoint Driver Developer's Kit
Version 1.0

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QLogic Linux Fibre Channel HBA Driver

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Contributors to bttv:

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

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

Chris Kleitsch
Hardware I2C

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

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

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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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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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
* M. Welsh, 6 July 1996
*
*
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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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* M. Welsh, 6 July 1996
*
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lldpd: implementation of IEEE 802.1ab (LLDP)

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).
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.

'lldpci' 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.github.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=8032b46489e50ef8f3992159ab0349b5b8e476c

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=0d7a3681232f5456a59f77e60f7667673ef0e93
* http://git.kernel.org/?p=linux/kernel/git/torvalds/linux-2.6.git;a=commit;h=cc9bd5cebc0825ef0fabc0186ab85806a0891104f
* http://git.kernel.org/?p=linux/kernel/git/torvalds/linux-2.6.git;a=commit;h=f982307f22db96201e41540295f24e8dec10c78f

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=bc1d0411b804ad190cddabac48a10067f17b9e6

More information:
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 LLDPU, use:

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

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1.34 locomote-video-player-1.1.9-v2 1.1.9-v2

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1.40 openssh-7.6p1 7.6p1

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   *
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   *
   * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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*/

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

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

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

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

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0100
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORMPOLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0100
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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*
*#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID

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

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) (_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) (_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

1.41 openssl 1.0.1u :1

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1.42 pcre 7.4

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1.44 qt-everywhere-opensource 4.7.3

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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
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functions (ten lines or less in length), then the use of the object
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   You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig, substitutions could still could have occurred during font opening). You must include the Bitstream copyright. Additional copyrights can be added, as per copyright law. Happy Font Hacking!

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?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

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necessary. Here is a sample; alter the names:

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

That's all there is to it!
/* Declarations for termcap library.
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along with this program; if not, write to the Free Software
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA. */

#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\033\034\035\036\037\038\039\044\045\046\047\048\049\050\051\052\053\054\055\056\057\060\061\062\063\064\065\066\067\068\069\070\071\072\073\074\075\076\077\080\081\082\083\084\085\086\087\088\089\090\091\092\093\094\095\096\097\100\101\102\103\104\105\106\107\108\109\110\111\112\113\.\\";

/* 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, 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;
breat;
    }
} 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 == '	' || *bp == '
') 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;
        }
    }else 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 (strncmp(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 **l)  
{  
    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(l, buf);

    strcpy(buf, "co#);
    strcpy(buf + 3, _itoa(ws.ws_col, num));
    add_list(l, 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;
            }
        }
    }
/* 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 == '	'; sp++) ;

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

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

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

    /* bufp++ = 0;
    if (status == 0) return(NULL);
    if ((sp = xmalloc(bufp - buf)) == NULL) return(sp);
    memcpy(sp, buf, bufp - buf);
    return(sp);
*/
while(term) {
  if (++loop > 16) {
    write(2, "tgetent: loop detected, check your termcap\n", 43);
    break;
  }
  #if 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 = l;
#if 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) return(0);

  /* For compatibility with programs like 'less' that want to
     put data in the termcap buffer themselves as a fallback. */
  if (buffer)
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{
    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 = l; 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 = l; 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[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 &&
      strcmp(bp+1, cap, len) == 0)
      return(bp + len + 2);
  }
#endif
#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++;
        } else
            *r++ = c;
    }

    /* Finish up. */
    *bufp = ret;
    free(ret);
    return(ret);
}

/* End of file. */

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("SI", 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

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