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1.4 cmake 2.8

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

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1.5 cron 1.0

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1.10 ebttables 2.0.8-2

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1.12 fcgi 2.4.1

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1.13 fetchmail 6.3.8

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1.14 ffmpeg 1.1

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- optional x86 optimizations in the files
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- 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:
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 - vf_blackframe.c
 - vf_boxblur.c
 - vf_colormatrix.c
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 - vf_mp.c
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 - vf_smartblur.c
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=====

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1.15 ffmpeg_v2 1.1

1.15.1 Available under license :

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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

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* 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

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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.

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incompatible libraries

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

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the

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

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

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

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

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

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

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

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A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

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If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

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The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

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5. Combined Libraries.

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 that are not Applications and are not covered by this

License, and convey such a combined library under terms of your choice, if you do both of the following:

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1.16 flex 2.5.33

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1.17 glib 2.13.4

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

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

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

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

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

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

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

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

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

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

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

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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.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally

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

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1.22 libusb 1.0.0

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

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

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

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

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

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

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

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

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

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1.23 libusb-compat 0.1.0 :r0

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

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

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1.24 libxml2 2.7.8

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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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1.26 LiveMedia 2008-09-19 :DUPLICATE

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1.27 Ildpd 0.7.6

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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=80fea8b8a6400a9540a961b6743c69a5896b937
* 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://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.

1.28 logrotate 3.8.2

1.28.1 Available under license :

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Version 2, June 1991

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1.29 mDNSResponder 107.6

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

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

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

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- a) Accompany the work with the complete corresponding

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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library

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Version 3, 29 June 2007

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/* *
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/* * It does require the zlib library and optionally the IJG jpeg library, */
/* * and/or the "little-cms" library by Marti Maria (depending on the */
/* * inclusion of support for JNG and Full-Color-Management respectively. */
/* *
/* *
/* * This library's function is primarily to read and display MNG */
/* * animations. It is not meant as a full-featured image-editing */
/* * component! It does however offer creation and editing functionality */
/* * at the chunk level. */
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/* * and or editing) */
/* *
/* ***** */

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



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That's all there is to it!

/\* 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\n\b\t\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 && strcmp(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 (strcmp(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 (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(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_mallocated = 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_mallocated = 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;
 }
 }
 }
 *r++ = c;
 }
 *r = '\0';
 if (bufp) *bufp = ret;
}

```

```

 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

```

# 1.41 tnftp 2007.08.06

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## 1.46 zlib-1.2.3 1.2.3

### 1.46.1 Available under license :

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.3, July 18th, 2005

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