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1.4 cmake 2.8

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'zlib' general purpose compression library
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1.5 cron 1.0

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```
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```

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```
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```

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1.12 eventlog 0.2.5

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The original source can always be found at:
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Upstream Author: Scheidler Balazs <bazsi@balabit.hu>

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1.13 fcgi 2.4.1

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1.14 fetchmail 6.3.8

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1.15 ffmpeg 1.1

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- 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_cropdetect.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.

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

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It may happen that this requirement contradicts the license

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Version 3, 29 June 2007

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1.16 ffmpeg_v2 1.1

1.16.1 Available under license :

FFmpeg:

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

Specifically, the GPL parts of FFmpeg are

- libpostproc
- libmpcodecs
- optional x86 optimizations in the files
libavcodec/x86/idct_mmx.c
- libutvideo encoding/decoding wrappers in
libavcodec/libutvideo*.cpp
- the X11 grabber in libavdevice/x11grab.c
- the swresample test app in
libswresample/swresample-test.c
- the texi2pod.pl tool
- the following filters in libavfilter:
 - f_ebur128.c
 - vf_blackframe.c
 - vf_boxblur.c
 - vf_colormatrix.c
 - vf_croptdetect.c
 - vf_decimate.c
 - vf_delogo.c
 - vf_geq.c
 - vf_histeq.c
 - vf_hqdn3d.c
 - vf_hue.c
 - vf_kerndeint.c
 - vf_mp.c
 - vf_pp.c
 - vf_smartblur.c

- vf_super2xsai.c
- vf_tinterlace.c
- vf_yadif.c
- vsrc_mptestsrc.c

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

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

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

external libraries

=====

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

compatible libraries

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

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

incompatible libraries

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

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

But note that if you enable any of these libraries the resulting binary will be under a complex license mix that is more restrictive than the LGPL and that may result in additional obligations. It is possible that these

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

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

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

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

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

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

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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Version 2.1, February 1999

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<signature of Ty Coon>, 1 April 1990
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Version 3, 29 June 2007

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1.17 flex 2.5.33

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1.18 glib 2.13.4

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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) <year> <name of author>
```

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```

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```
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.

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'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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1.20 IP Table 1.3.8

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Version 2, June 1991

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/*

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1.23 libol 0.3.18

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1.24 libusb 0.1.8 :3

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1.25 libusb 1.0.0

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1.27 libxml2 2.7.8

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1.28 linux 2.6.18

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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.>

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

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

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

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

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

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

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

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Version 2, June 1991

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

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

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

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 1.0

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

* <http://www.hypermall.com/>

* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

* interrupts us (except possibly for removal/insertion of the cable?)

* 10/4/97 - began heavy inline documentation of the code. Corrected typos

* and spelling mistakes.

* 10/5/97 - added code to handle PHY interrupts, disable PHY on

* loss of link, and correctly re-enable PHY when link is

* re-established. (put back CFG_PHYIE)

*

```

* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997 $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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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

```

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lldpd: implementation of IEEE 802.1ab (LLDP)

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[![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 'lldcli' or through SNMP.

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

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

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

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

- * <http://git.kernel.org/?p=linux/kernel/git/torvalds/linux-2.6.git;a=commit;h=0d7a3681232f545c6a59f77e60f7667673ef0e93>
- * <http://git.kernel.org/?p=linux/kernel/git/torvalds/linux-2.6.git;a=commit;h=cc9bd5cebc0825e0fabc0186ab85806a0891104f>
- * <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, 'lldcli' will be linked to GNU Readline (which is GPL licensed) if available. To avoid this, use '--without-readline' as a configure option.

1.31 logrotate 3.8.2

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1.32 mDNSResponder 107.6

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1.33 msmtplib 1.4.12

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* @version 3.0 (December 2000)

*

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 *
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1.38 pcre 7.4

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/* Implementation of the dcgettext(3) function.

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3. Are derivative works allowed?

Yes!

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

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

5. Under what terms are derivative works allowed?

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

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

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

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

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

Preamble

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

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

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

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

/* 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\r\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 && strncmp(bp, "tc=", 3) == 0) {
    tc_next = strsave(bp + 3);
    continue;
}

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

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

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

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

```

```

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

/* Add the rest until nl to the buffer. */
while(*sp && *sp != '\n') {
if (*sp == '\\' && *(sp + 1) == '\n') break;
*bufp++ = *sp++;
if (bufp - buf > 4092) {
/* Buffer full, quit. */
*sp = '\n';
break;
}
}
if (*sp == '\n') break;
}
/* Save buffer to malloced area. */
*bufp++ = 0;
if (status == 0) return(NULL);
if ((sp = xmalloc(bufp - buf)) == NULL) return(sp);
memcpy(sp, buf, bufp - buf);
return(sp);
}

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

```

```

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

*tcp = NULL;

/* See if we have a TERMCAP environment variable. */
if ((tc = getenv("TERMCAP")) != NULL) {
if (*tc == '/')
tc_file = tc;
else {
/* check if TERMCAP is term */
if (tc_comp(tc, term)) {
#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);

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

/* Add capability to buffer. */

```

```

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

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

return(1);
}

/* Generic "find capability" routine. */
static char *find_cap(char *bp, const char *cap, char sep)
{
#ifdef 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);
#ifdef MULTIPLE_CHAR_CAP
}
/* Longer string, use slow lookup. */
while(*bp) {
if (bp[0] == ':' && bp[len+1] == sep && strncmp(bp+1, cap, len) == 0)
return(bp + len + 2);
bp++;
}
return(NULL);
#endif
}

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

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

```

```

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

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

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

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

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

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

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

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

```

```

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

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

return(ret);
}

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

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

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

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

```

```

    padcount *= nlines;
}

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

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

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

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

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

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

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

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

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

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

```

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

1.44 tnftp 2007.08.06

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1.45 usbutils 0.72

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1.46 wget 1.10.2

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1.48 wpa_suppliant 0.5.7

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1.50 zlib-1.2.3 1.2.3

1.50.1 Available under license :

```
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```

```
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