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'zlib' general purpose compression library
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1.5 cron 1.0

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1.14 ffmpeg 1.1

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- 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_decimate.c
  - vf_delogo.c
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  - vf_smartblur.c
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external libraries
==================

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compatible libraries
----------------------

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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_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

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

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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possible use to the public, the best way to achieve this is to make it
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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
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<one line to give the program’s name and a brief idea of what it does.>
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1.21 libol 0.3.18
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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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<signature of Ty Coon>, 1 April 1989
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1.22 libusb 1.0.0

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Version 2.1, February 1999

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

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

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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 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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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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FlashPoint Driver Developer's Kit

Version 1.0

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QLogic Linux Fibre Channel HBA Driver

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
   * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
   *
   * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
   * http://www.hypermall.com/
   * 10/1/97 - commented out CFG PHYIE bit - we don't care when the PHY
   * interrupts us (except possibly for removal/insertion of the cable?)
   * 10/4/97 - began heavy inline documentation of the code. Corrected typos
   * and spelling mistakes.
   * 10/5/97 - added code to handle PHY interrupts, disable PHY on
   * loss of link, and correctly re-enable PHY when link is
   * re-established. (put back CFG PHYIE)
   *
   * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
   *
   * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997 $Revision: 1.1 $ $Date: 1999/08/20 11:00:11 $
   *
   * Linux driver for the IDT77201 NICStAR PCI ATM controller.
   * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
   * see init_nicstar() for PHY initialization to change this. This driver
   * expects the Linux ATM stack to support scatter-gather lists
   * (skh->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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1.27 lldpd 0.7.6

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lldpd: implementation of IEEE 802.1ab (LLDP)
============================================


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

Features
--------

LLDP (Link Layer Discovery Protocol) is an industry standard protocol designed to supplant proprietary Link-Layer protocols such as Extreme's EDP (Extreme Discovery Protocol) and CDP (Cisco Discovery Protocol). 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:

```bash
./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:

```bash
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)/:

   ```bash
   brew install lldpd
   # Or, for the latest version:
   brew install https://raw.github.com/vincentbernat/lldpd/master/osx/lldpd.rb
   ```
2. Build an OSX installer package which should work on the same version of OS X (it is important to use a separate build directory):

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

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

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

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

Usage
-----

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

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

* http://git.kernel.org/?p=linux/kernel/git/torvalds/linux-2.6.git;a=commitdiff;h=80feaacb8a6400a9540a961b6743c69a5896b937
* http://git.kernel.org/?p=linux/kernel/git/torvalds/linux-2.6.git;a=commitdiff;h=8032b46489e50ef8f3992159ab0349b5b8e476c

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

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

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

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

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

Some devices (notably Cisco IOS) send frames on the native VLAN while they should send them untagged. If your network card does not support accelerated VLAN, you will receive those frames as well. However, if your network card handles VLAN encapsulation/decapsulation, you need a recent kernel to be able to receive those frames without listening on all available VLAN. Starting from Linux 2.6.27, lldpd is able to capture VLAN frames when VLAN acceleration is supported by the network card. Here is the patch:

http://git.kernel.org/?p=linux/kernel/git/torvalds/linux-2.6.git;a=commit;h=bc1d0411b804ad190cdadab48a10067f17b9e6

More information:
* http://en.wikipedia.org/wiki/Link_Layer_Discovery_Protocol
* 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:

```bash
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 'libldpctl.so'. Its API is described in 'src/lib/lldpctl.h'. The custom binary protocol between 'libldpctl.so' and 'lldpd' is not stable. Therefore, the library should always be shipped with 'lldpd'. On the other hand, programs using 'libldpctl.so' can rely on the classic ABI rules.

Troubleshooting
---------------

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

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

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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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1.29 mDNSResponder 107.6

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1.34 OpenSSL 1.0.1g

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1.35 pcre 7.4

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Written by: Philip Hazel
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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?

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PCRE is a library of functions to support regular expressions whose syntax
and semantics are as close as possible to those of the Perl 5 language.

This is JavaScriptCore's variant of the PCRE library. While this library
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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!
/* Declarations for termcap library. 
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along with this program; if not, write to the Free Software
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA. */

#ifndef _TERMCAP_H
#define _TERMCAP_H 1

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

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

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

__BEGIN_DECLS

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

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

__END_DECLS

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

/* Escape sequences we know about. */
static char *escapes = "E\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;
in t puts_baud rate;
char PC;
in t 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++;
                }
            }
        }
    }
}

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

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

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

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

    /* Extract capabilities one-by-one. */
    while(*sp) {
        /* Find end of field. */
        bp = sp;
        while(*sp && *sp != ':')
        {
            /* Allow escaped ':'. */
            if (*sp == '\' && sp[1] == ':
                sp++;  
            sp++;  
            if (*sp) *sp++ = 0;
/* Check for empty field or comments. */
while(*bp == ' ' || *bp == '	' || *bp == '
') bp++;
if (*bp == 0 || *bp == ':' || *bp == '.') continue;

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

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

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

/* Add capability to the list. */
i = (struct tc_ent *)malloc(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)
{
/* Check for empty field or comments. */
while(*bp == ' ' || *bp == '	' || *bp == '
') bp++;
if (*bp == 0 || *bp == ':' || *bp == '.') continue;

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

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

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

/* Add capability to the list. */
i = (struct tc_ent *)malloc(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);
}
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 TIOC GWINSZ */
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# */
strncpy(buf, "li#);
strncpy(buf + 3, _itoa(ws.ws_row, num));
add_list(l, buf);

strncpy(buf, "co#);
strncpy(buf + 3, _itoa(ws.ws_col, num));
add_list(l, buf);

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

    bp = sp = line;
    x = *bp;
    while(x && x != ':' && x != '\n') {
        /* Find the end of this description. */
        while(*sp && *sp != ':' && *sp != '|' && *sp != '\n')
            sp++;
        if (len == (sp - bp) && strncmp(term, bp, len) == 0) {
            /* Found it! */
            found = 1;
            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 == '	'; sp++) ;
    /* Add the rest until nl to the buffer. */
    while(*sp && *sp != '\n') {
        if (*sp == '\n' && (*(sp + 1) == '\n')) break;
        *bufp++ = *sp++;
        if (bufp - buf > 4092) {
            /* Buffer full, quit. */
            *sp = '\n';
            break;
        }
    }
    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, "$getent: loop detected, check your termcap$\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;
}
close(fp);

/* Done. */
*tcp = l;
#if DEBUG
printf(">> tc_read done, desc = %sn", 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 = l; i; i = i->next)
        count += strlen(i->cap) + 1;
    count++;

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

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

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

    *sp++ = ':';
    count++;

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

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

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

        /* Add capability to buffer. */
        for (bp = i->cap; *bp; bp++)
/* Free space. */
next = i->next;
free(i);
}
*sp = 0;
return(1);
}

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

if (len == 2) {
#endif
/* Normal case, do fast lookup. */
while(*bp) {
if (bp[0] == ':' &&
 bp[1] == cap[0] &&
 bp[3] == sep) return(bp + 4);
bp++;
}
return(NULL);
#if MULTIPLE_CHAR_CAP
}
#endif
/* 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 = *s++;
                    }
            }
        } else {
            /* \ or \n or whatever. */
            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 {
                if (c == '\n' || c == '\r') {
                    /* \n or \r or whatever. */
                    for(sp = escapes; *sp; sp += 2)
                        if (c == *sp) {
                            c = *s++;
                        }
                    /* \n or \r or whatever. */
                }
            }
        }
    }

    return(ret);
}

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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", term_entry);

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

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

  printf("tgetflag(li) = %d", tgetflag("li"));
  printf("tgetflag(mi) = %d", 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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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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