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Contents

1.1 AES_MODES_SOURCE_CODE 23-07-09

1.1.1 Available under license

1.2 Arp 1.3.2

1.2.1 Available under license

1.3 base64.c 1.3

1.3.1 Available under license

1.4 bind 4.9.4

1.4.1 Available under license

1.5 Broadcom 57XX Ethernet Driver Unknown

1.5.1 Available under license

1.6 busybox 1.16.1

1.6.1 Available under license

1.7 clock_util.c 1992

1.7.1 Available under license

1.8 CRC32 1.222

1.8.1 Available under license

1.9 dante 1.2.0

1.9.1 Available under license

1.10 DAV Explorer 0.91

1.10.1 Notifications

1.10.2 Available under license

1.11 dosfstools 2.11 :ASA

1.11.1 Available under license

1.12 errno.h 1.14

1.12.1 Available under license

1.13 expat 2.0.1 :ASA

- 1.13.1 Available under license
- 1.14 Expat XML Parser v1.2 :Production**
 - 1.14.1 Available under license
- 1.15 fnmatch.c 1.11**
 - 1.15.1 Available under license
- 1.16 fnmatch.h 1.7**
 - 1.16.1 Available under license
- 1.17 getline 1991**
 - 1.17.1 Available under license
- 1.18 glibc 2.9**
 - 1.18.1 Available under license
- 1.19 grub 0.94**
 - 1.19.1 Available under license
- 1.20 Intel GE Driver - FreeBSD 2.2.3**
 - 1.20.1 Available under license
- 1.21 IPMIutil 1.8.2**
 - 1.21.1 Available under license
- 1.22 ixgbe driver 1.7.5**
 - 1.22.1 Available under license
- 1.23 libcgrou 0.34 :ASA**
 - 1.23.1 Available under license
- 1.24 libgcc 4.3**
 - 1.24.1 Available under license
- 1.25 libssl 0.9.8f**
 - 1.25.1 Notifications
 - 1.25.2 Available under license
- 1.26 libstdc++ 4.3**
 - 1.26.1 Available under license
- 1.27 libusb 0.1.12 :ASA**
 - 1.27.1 Available under license
- 1.28 libxml2 2.7.5**
 - 1.28.1 Available under license
- 1.29 libxml2 2.7.5 :ASA**
 - 1.29.1 Available under license
- 1.30 linux kernel 2.6.29.6**
 - 1.30.1 Available under license
- 1.31 Linux-PAM 1.1.0**
 - 1.31.1 Available under license
- 1.32 lzma 4.43**

- 1.32.1 Available under license
- 1.33 MD4 Encryption 1.6**
 - 1.33.1 Available under license
- 1.34 mdadm 3.2.5**
 - 1.34.1 Available under license
- 1.35 memchr.c 1.6**
 - 1.35.1 Available under license
- 1.36 module-init-tools 3.10 :ASA**
 - 1.36.1 Available under license
- 1.37 ncurses 5.6 :ASA**
 - 1.37.1 Available under license
- 1.38 Ncurses 5.6**
 - 1.38.1 Available under license
- 1.39 netfs 6.0**
 - 1.39.1 Available under license
- 1.40 NRL IPsec key.h 1.1a**
 - 1.40.1 Available under license
- 1.41 NTP 3**
 - 1.41.1 Available under license
- 1.42 numactl 2.0.3 :ASA**
 - 1.42.1 Available under license
- 1.43 OpenSource FreeBSD E1000 network driver - Intel Developed All file revisions are 1.3 under FreeBSD src/sys/dev/e1000/**
 - 1.43.1 Available under license
- 1.44 OpenSSH 2.3.0**
 - 1.44.1 Available under license
- 1.45 openssl 0.9.8f**
 - 1.45.1 Notifications
 - 1.45.2 Available under license
- 1.46 openssl 0.9.8i :ASA**
 - 1.46.1 Notifications
 - 1.46.2 Available under license
- 1.47 openssl 0.9.8i**
 - 1.47.1 Notifications
 - 1.47.2 Available under license
- 1.48 OpenSSL Patch for AES-GCM/CCM/CMAC 1.0**
 - 1.48.1 Notifications
 - 1.48.2 Available under license
- 1.49 Packet allocation and deallocation routines 1.3.2**

- 1.49.1 Available under license
- 1.50 pci.ids 2009.10.22 :ASA**
 - 1.50.1 Available under license
- 1.51 pciutils 3.1.4 :ASA**
 - 1.51.1 Available under license
- 1.52 PPP (Paul's PPP Package) 2.1.2b**
 - 1.52.1 Notifications
 - 1.52.2 Available under license
- 1.53 Qemu-KVM 0.12.5**
 - 1.53.1 Available under license
- 1.54 Qemu-KVM Inter-VM Shared Memory Patch 1.0**
 - 1.54.1 Available under license
- 1.55 qsort.c 1.1.1.1**
 - 1.55.1 Available under license
- 1.56 queue.h 1.18**
 - 1.56.1 Available under license
- 1.57 queue.h 1.32.2.7**
 - 1.57.1 Available under license
- 1.58 rand.c 1.6**
 - 1.58.1 Available under license
- 1.59 readline 5.2 :ASA**
 - 1.59.1 Available under license
- 1.60 regex book library**
 - 1.60.1 Available under license
- 1.61 RPC 4.0**
 - 1.61.1 Available under license
- 1.62 setjmp.S 1.1**
 - 1.62.1 Available under license
- 1.63 SHA-2 1.0**
 - 1.63.1 Available under license
- 1.64 smartmontools 5.43**
 - 1.64.1 Available under license
- 1.65 smbfs 1.4**
 - 1.65.1 Available under license
- 1.66 SSLeay Hash Functions 0.8.2f**
 - 1.66.1 Notifications
 - 1.66.2 Available under license
- 1.67 stat.h 1.20**
 - 1.67.1 Available under license

1.68 strcasecmp.c 1.4

1.68.1 Available under license

1.69 strcat_end strcat_end.c 8.1 (Berkeley) 6/4/93

1.69.1 Available under license

1.70 strcspn.c 1.5

1.70.1 Available under license

1.71 strlcat.c 1.2

1.71.1 Available under license

1.72 strlcpy.c 1.4

1.72.1 Available under license

1.73 strnstr UNKNOWN

1.73.1 Available under license

1.74 strpbrk.c 1.7

1.74.1 Available under license

1.75 strsep.c 1.11

1.75.1 Available under license

1.76 strspn.c 1.5

1.76.1 Available under license

1.77 strstr.c 1.1.1.1

1.77.1 Available under license

1.78 strtod.c 1.50

1.78.1 Available under license

1.79 strtok.c 1.5

1.79.1 Available under license

1.80 strtol.c 1.10

1.80.1 Available under license

1.81 strtouq.c 1.10

1.81.1 Available under license

1.82 strtoul.c 1.10

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1.83 strtouq.c 1.9

1.83.1 Available under license

1.84 struct.h 1.1.1.2

1.84.1 Available under license

1.85 types.h 1.1

1.85.1 Available under license

1.86 udev 146 :ASA

1.86.1 Available under license

1.87 unzip 5.52

- 1.87.1 Available under license
- 1.88 usbutils 0.86 :ASA**
- 1.88.1 Available under license
- 1.89 util-linux 2.16.1**
- 1.89.1 Available under license
- 1.90 XULRunner SDK 1.9.0.17**
- 1.90.1 Available under license
- 1.91 zlib 1.2.3 :ASA**
- 1.91.1 Available under license
- 1.92 zlib 1.2.3 1.2.3**
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My thanks to Colin Sinclair for finding an error and suggesting a number of improvements to this code. My thanks also to John Viega and David McGrew for their support in developing this code and to David for testing it on a big-endain system.

*/

1.2 Arp 1.3.2

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* source in this file came from

* the Mach ethernet boot written by Leendert van Doorn.

*

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```

* All Rights Reserved
*
* Description: ROMMON ARP processing module. Inherited from PIX Monitor-Mode
*       Code base.
*
* This code was originally taken from the NetBSD 1.3.2 distribution.
* It has been rather extensively modified, including removing RARP
* and fixing a lot of bugs.
*
*-----
* $Id: //depot/acmilan/main/Xpix/boot/rommon/nb_arp.c#2 $
* $Source: $
*/

```

1.3 base64.c 1.3

1.3.1 Available under license :

```

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1.5 Broadcom 57XX Ethernet Driver Unknown

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 * v 1.18 2006/10/31 03:28:25 scottl Exp \$");
 */

1.6 busybox 1.16.1

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 - * Version 2 as specified in RFC-1119)
 - * Lars H. Mathiesen <thorinn@diku.dk> (adaptation of foundation code for
 - * Version 3 as specified in RFC01305)
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 - * authentication)
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 - * ppsclock, Maganavox GPS clock driver)
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 - * driver, STREAMS module for DCF77, support scripts)
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 - * scripts, statistics file handling)
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 - * Kenneth Stone <ken@sdd.hp.com> (port to HPUX operating system)
 - * Dave Katz <dkatz@cisco.com> (port to RS/6000 AIX operating system)
 - * William L. Jones <jones@hermes.chpc.utexas.edu> (RS/6000 AIX
 - * modifications, HPUX modifications)
 - * John A. Dundas III <dundas@salt.jpl.nasa.gov> (Apple A/UX port)
 - * David L. Mills <mills@udel.edu> (WWVB and Austron GPS clock drivers,
 - * pps support)
 - * Jeffrey Mogul <mogul@pa.dec.com> (ntptrace utility)
 - * Steve Clift (clift@ml.csiro.au) OMEGA clock driver
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1.8 CRC32 1.222

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1.9 dante 1.2.0

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```
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```

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

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1.12 errno.h 1.14

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```

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```

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1.13 expat 2.0.1 :ASA

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1.15 fnmatch.c 1.11

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 */
```

1.16 fnmatch.h 1.7

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 *
 * @(#)fnmatch.h 8.1 (Berkeley) 6/2/93
 */
```

1.17 getline 1991

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- */

1.18 glibc 2.9

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```
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```
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```
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```

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<signature of Ty Coon>, 1 April 1989
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1.24 libgcc 4.3

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1.28 libxml2 2.7.5

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1.30 linux kernel 2.6.29.6

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<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 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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QLogic Linux Networking HBA Driver

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FlashPoint Driver Developer's Kit
Version 1.0

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QLogic Linux Fibre Channel HBA Driver

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Version 2, June 1991

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

That's all there is to it!

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

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*
* M. Welsh, 6 July 1996
*
*
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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.

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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.

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.

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1.32 Izma 4.43

1.32.1 Available under license :

/*

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LZMA Decoder (optimized for Speed version)

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1.34 mdadm 3.2.5

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1.37 ncurses 5.6 :ASA

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```

```
<signature of Ty Coon>, 1 April 1989  
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1.38 Ncurses 5.6

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-----
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-----
```

README file for the ncurses package

See the file ANNOUNCE for a summary of ncurses features and ports.
See the file INSTALL for instructions on how to build and install ncurses.
See the file NEWS for a release history and bug-fix notes.
See the file TO-DO for things that still need doing, including known bugs.

Browse the file misc/ncurses-intro.html for narrative descriptions of how to use ncurses and the panel, menu, and form libraries.

Browse the file doc/html/hackguide.html for a tour of the package internals.

ROADMAP AND PACKAGE OVERVIEW:

You should be reading this file in a directory called: `ncurses-d.d`, where `d.d` is the current version number (see the `dist.mk` file in this directory for that). There should be a number of subdirectories, including ``c++'`, ``form'`, ``man'`, ``menu'`, ``misc'`, ``ncurses'`, ``panel'`, ``progs'`, ``test'`, `'tack'` and ``Ada95'`. (The `'tack'` program may be distributed separately).

A full build/install of this package typically installs several libraries, a handful of utilities, and a database hierarchy. Here is an inventory of the pieces:

The libraries are:

`libncurses.a` (normal)
`libncurses.so` (shared)
`libncurses_g.a` (debug and trace code enabled)
`libncurses_p.a` (profiling enabled)

`libpanel.a` (normal)
`libpanel.so` (shared)
`libpanel_g.a` (debug and trace code enabled)

`libmenu.a` (normal)
`libmenu.so` (shared)
`libmenu_g.a` (debug enabled)

`libform.a` (normal)
`libform.so` (shared)
`libform_g.a` (debug enabled)

If you configure using the `--enable-widex` option, a "w" is appended to the library names (e.g., `libncursesw.a`), and the resulting libraries support wide-characters, e.g., via a UTF-8 locale. The corresponding header files are compatible with the non-wide-character configuration; wide-character features are provided by `ifdef's` in the header files. The wide-character library interfaces are not binary-compatible with the non-wide-character version.

The `ncurses` libraries implement the `curses` API. The `panel`, `menu` and `forms` libraries implement clones of the SVr4 `panel`, `menu` and `forms` APIs. The source code for these lives in the ``ncurses'`, ``panel'`, ``menu'`, and ``form'` directories respectively.

In the ``c++'` directory, you'll find code that defines an interface to the `curses`, `forms`, `menus` and `panels` library packaged as C++ classes, and a demo program in C++ to test it. These class definition modules are not installed by the `'make`

install.libs' rule as libncurses++.

In the `Ada95' directory, you'll find code and documentation for an Ada95 binding of the curses API, to be used with the GNAT compiler. This binding is built by a normal top-level `make' if configure detects an usable version of GNAT (3.11 or above). It is not installed automatically. See the Ada95 directory for more build and installation instructions and for documentation of the binding.

To do its job, the ncurses code needs your terminal type to be set in the environment variable TERM (normally set by your OS; under UNIX, `getty(1)` typically does this, but you can override it in your `.profile`); and, it needs a database of terminal descriptions in which to look up your terminal type's capabilities.

In older (V7/BSD) versions of curses, the database was a flat text file, `/etc/termcap`; in newer (USG/USL) versions, the database is a hierarchy of fast-loading binary description blocks under `/usr/lib/terminfo`. These binary blocks are compiled from an improved editable text representation called `terminfo' format (documented in `man/terminfo.5`). The ncurses library can use either `/etc/termcap` or the compiled binary terminfo blocks, but prefers the second form.

In the `misc' directory, there is a text file `terminfo.src`, in editable terminfo format, which can be used to generate the terminfo binaries (that's what `install.data` does). If the package was built with the `--enable-termcap` option enabled, and the ncurses library cannot find a terminfo description for your terminal, it will fall back to the termcap file supplied with your system (which the ncurses package installation leaves strictly alone).

The utilities are as follows:

```
tic      -- terminfo source to binary compiler
infocmp  -- terminfo binary to source decompiler/comparator
clear    -- emits clear-screen for current terminal
tput     -- shell-script access to terminal capabilities.
toe     -- table of entries utility
tset     -- terminal-initialization utility
```

The first two (`tic` and `infocmp`) are used for manipulating terminfo descriptions; the next two (`clear` and `tput`) are for use in shell scripts. The last (`tset`) is provided for 4.4BSD compatibility. The source code for all of these lives in the `progs' directory.

Detailed documentation for all libraries and utilities can be found in the `man' and `doc' directories. An HTML introduction to ncurses, panels, and menus programming lives in the `doc/html' directory. Manpages in HTML format

are under ``doc/html/man'`.

The ``test'` directory contains programs that can be used to verify or demonstrate the functions of the ncurses libraries. See `test/README` for descriptions of these programs. Notably, the ``ncurses'` utility is designed to help you systematically exercise the library functions.

AUTHORS:

Pavel Curtis:

wrote the original ncurses

Zeyd M. Ben-Halim:

port of original to Linux and many enhancements.

Thomas Dickey (maintainer for 1.9.9g through 4.1, resuming with FSF's 5.0):
configuration scripts, porting, mods to adhere to XSI Curses in the areas of background color, terminal modes. Also memory leak testing, the `wresize`, default colors and key definition extensions and numerous bug fixes (more than half of those enumerated in NEWS beginning with the internal release 1.8.9).

Florian La Roche (official maintainer for FSF's ncurses 4.2)

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Eric S. Raymond:

the man pages, `infocmp(1)`, `tput(1)`, `clear(1)`, `captainfo(1)`, `tset(1)`, `toe(1)`, most of `tic(1)`, trace levels, the HTML intro, `wgetnstr()` and many other entry points, the cursor-movement optimization, the scroll-pack optimizer for vertical motions, the mouse interface and `xterm` mouse support, and the ncurses test program.

Juergen Pfeifer

The menu and form libraries, C++ bindings for ncurses, menus, forms and panels, as well as the Ada95 binding. Ongoing support for panel.

CONTRIBUTORS:

Alexander V. Lukyanov

for numerous fixes and improvements to the optimization logic.

David MacKenzie

for first-class bug-chasing and methodical testing.

Ross Ridge

for the code that hacks `termcap` parameterized strings into `terminfo`.

Warren Tucker and Gerhard Fuernkranz,
for writing and sending the panel library.

Hellmuth Michaelis,
for many patches and testing the optimization code.

Eric Newton, Ulrich Drepper, and Anatoly Ivasyuk:
the C++ code.

Jonathan Ross,
for lessons in using sed.

Keith Bostic (maintainer of 4.4BSD curses)
for help, criticism, comments, bug-finding, and being willing to
deep-six BSD curses for this one when it grew up.

Richard Stallman,
for his commitment to making ncurses free software.

Countless other people have contributed by reporting bugs, sending fixes,
suggesting improvements, and generally whining about ncurses :-)

BUGS:

See the INSTALL file for bug and developer-list addresses.

The Hacker's Guide in the doc directory includes some guidelines
on how to report bugs in ways that will get them fixed most quickly.

1.39 netfs 6.0

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1.40 NRL IPsec key.h 1.1a

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```
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```

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1.42 numactl 2.0.3 :ASA

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1.47 openssl 0.9.8l

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1.49 Packet allocation and deallocation

routines 1.3.2

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1.51 pciutils 3.1.4 :ASA

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ppp-2.1.2b/386bsd/net/slcompress.h

ppp-2.1.2b/386bsd/new/slcompress.c

ppp-2.1.2b/netbsd-current/slcompress.c

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ppp-2.1.2b/386bsd/new/if_ppp.c

ppp-2.1.2b/netbsd-current/if_ppp.c

ppp-2.1.2b/ultrix/if_ppp.c

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ppp-2.1.2b/pppd/lcp.c

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ppp-2.1.2b/pppd/sys-bsd.c

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ppp-2.1.2b/net/ppp_str.h

ppp-2.1.2b/sunos/ppp_async.c

ppp-2.1.2b/sunos/ppp_if.c

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ppp-2.1.2b/pppd/auth.c

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ppp-2.1.2b/pppd/md5.c

ppp-2.1.2b/pppd/md5.h

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ppp-2.1.2b/pppstats/pppstats.c

ppp-2.1.2b/sunos/slcompress.c

ppp-2.1.2b/ultrix/slcompress.c

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1.53 Qemu-KVM 0.12.5

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1.54 Qemu-KVM Inter-VM Shared Memory

Patch 1.0

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1.56 queue.h 1.18

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*  
* @(#)queue.h 8.5 (Berkeley) 8/20/94  
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1.57 queue.h 1.32.2.7

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*  
* @(#)queue.h 8.5 (Berkeley) 8/20/94  
* $FreeBSD: src/sys/sys/queue.h,v 1.32.2.7 2002/04/17 14:21:02 des Exp $  
*/
```

1.58 rand.c 1.6

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/* $NetBSD: rand.c,v 1.6 1997/07/13 20:16:53 christos Exp $ */
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1.59 readline 5.2 :ASA

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```

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1.63 SHA-2 1.0

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1.64 smartmontools 5.43

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```
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*  
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*  
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* at the Concurrent Systems Laboratory (now part of the Storage Systems  
* Research Center), Jack Baskin School of Engineering, University of  
* California, Santa Cruz. http://ssrc.soe.ucsc.edu/  
*  
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```

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```
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```

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

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1.65 smbfs 1.4

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1.66 SSLeay Hash Functions 0.8.2f

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*  
* @(#)stat.h 8.12 (Berkeley) 6/16/95  
* $FreeBSD: src/sys/sys/stat.h,v 1.20 1999/12/29 04:24:47 peter Exp $  
*/
```

1.68 strcasecmp.c 1.4

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1.69 strcat_end strcat_end.c 8.1 (Berkeley)

6/4/93

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1.70 strcspn.c 1.5

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1.71 strlcat.c 1.2

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```

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1.72 strlcpy.c 1.4

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1.73 strnstr UNKNOWN

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1.74 strpbrk.c 1.7

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1.75 strsep.c 1.11

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```

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1.76 strspn.c 1.5

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1.78 strtod.c 1.50

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1.79 strtok.c 1.5

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1.81 strtouq.c 1.10

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1.82 strtoul.c 1.10

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1.83 strtouq.c 1.9

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1.84 struct.h 1.1.1.2

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* @(#)struct.h 8.1 (Berkeley) 6/2/93
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1.85 types.h 1.1

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* @(#)types.h 8.4 (Berkeley) 1/21/94
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1.86 udev 146 :ASA

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1.88 usbutils 0.86 :ASA

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```
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```

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```
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```

```
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Ty Coon, President of Vice
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1.89 util-linux 2.16.1

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.91 zlib 1.2.3 :ASA

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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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1.92 zlib 1.2.3 1.2.3

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