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Issue Date: 17/07/2009

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-endian system.

\*/

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*/

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*
* source in this file came from
* the Mach ethernet boot written by Leendert van Doorn.
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*
* 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 :

```

/* $NetBSD: base64.c,v 1.3 1997/07/13 19:57:30 christos Exp $ */

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 * __FBSDID("$FreeBSD: /repoman/r/ncvs/src/sys/dev/bce/if_bce.c,
 * v 1.18 2006/10/31 03:28:25 scottl Exp $");
 */
```

## 1.6 busybox 1.16.1

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\* @(#)fnmatch.h 8.1 (Berkeley) 6/2/93  
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## 1.22 libcgroup 0.34 :ASA

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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
 *
 * 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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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating

system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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## 1.28 Izma 4.43

### 1.28.1 Available under license :

/\*

LzmaDecode.c

LZMA Decoder (optimized for Speed version)

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

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## 1.29 MD4 Encryption 1.6

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```

## 1.30 memchr.c 1.6

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 */
```

## 1.31 module-init-tools 3.10 :ASA

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# 1.32 Ncurses 5.6

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-----
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-- authorization.                                                    --
-----
-- $Id: README,v 1.23 2006/04/22 22:19:37 tom Exp $
-----
```

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-widec` 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 `make 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)

Beginning with release 4.2, ncurses is distributed under an MIT-style license.

Eric S. Raymond:

the man pages, infocmp(1), tput(1), clear(1), captinfo(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.

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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.

## 1.33 ncurses 5.6 :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/ultrix/if\_ppp.c



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#### ppp-2.1.2b/pppd/fsm.h

#### ppp-2.1.2b/pppd/ipcp.c

#### ppp-2.1.2b/pppd/ipcp.h

#### ppp-2.1.2b/pppd/lcp.c

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#### ppp-2.1.2b/pppd/magic.c

#### ppp-2.1.2b/pppd/magic.h

ppp-2.1.2b/pppd/main.c  
ppp-2.1.2b/pppd/options.c  
ppp-2.1.2b/pppd/ppp.h  
ppp-2.1.2b/pppd/pppd.h  
ppp-2.1.2b/pppd/sys-bsd.c  
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## 1.49 queue.h 1.18

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```

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```

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```

## 1.50 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 $
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```

# 1.51 rand.c 1.6

## 1.51.1 Available under license :

```
/* $NetBSD: rand.c,v 1.6 1997/07/13 20:16:53 christos Exp $ */

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 */
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```

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```

# 1.55 SHA-2 1.0

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```
/*  
* FIPS 180-2 SHA-224/256/384/512 implementation  
* Last update: 02/02/2007
```

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## 1.58 stat.h 1.20

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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 \$
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## 1.59 strcasecmp.c 1.4

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## 1.60 strcat\_end strcat\_end.c 8.1 (Berkeley)

6/4/93

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```

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## 1.63 strlcpy.c 1.4

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## 1.64 strnstr UNKNOWN

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## 1.74 strtouq.c 1.9

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```
/* $NetBSD: strtouq.c,v 1.9 1998/02/03 01:48:31 mycroft Exp $ */
```

```
/*_
```

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```

## 1.75 struct.h 1.1.1.2

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```

\* @(#)struct.h 8.1 (Berkeley) 6/2/93

\*/

## 1.76 types.h 1.1

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\*

\* @(#)types.h 8.4 (Berkeley) 1/21/94

\*/

# 1.77 udev 146 :ASA

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## 1.80 util-linux 2.16.1

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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zlib.h -- interface of the 'zlib' general purpose compression library  
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