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-- John W. Linville

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04/22/2003

From - Tue Apr 22 15:12:58 2003

X-Mozilla-Status: 0001

X-Mozilla-Status2: 00000000

Received: from nobody.lpr.e-technik.tu-muenchen.de ([129.187.151.1]) by lvl7ser4.lvl7.com with SMTP (Microsoft Exchange Internet Mail Service Version 5.5.2650.21) id 20WHF7CF; Sat, 19 Apr 2003 10:57:27 -0400

Received: from metrowerks.com (ernie.lpr.e-technik.tu-muenchen.de [129.187.151.192]) by nobody.lpr.e-technik.tu-muenchen.de (8.11.6/8.11.6) with ESMTP id h3JErII07056 for <linville@lvl7.com>; Sat, 19 Apr 2003 16:53:47 +0200

Message-ID: <3EA162E8.9030201@metrowerks.com>

Date: Sat, 19 Apr 2003 16:53:28 +0200

From: Bernhard Kuhn <bkuhn@metrowerks.com>

X-Accept-Language: en-us, en

MIME-Version: 1.0

To: "John W. Linville" <linville@lvl7.com>

Subject: Re: bootenv binary

References: <3EA0785D.7050603@lvl7.com>

Content-Type: text/plain; charset=us-ascii; format=flowed

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> Is the bootenv binary covered by the GPL?

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1.8 fakeroot 1.7.1

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1.13 libevent 2.1.1-alpha

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1.14 libghthash 0.5.5

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1.15 libisc 1.15

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libisc is C utility library which is used as part of part of ISC's bind. It includes functions for: - assertion handling. - balanced binary (AVL) trees.

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1.16 libupnp 1.6.0

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¶

1.19 Minihttpd 1.19

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1.20 mpfr 2.3.0

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1.21 mtd-utils 1.2.0

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1.22 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-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)

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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.

David MacKenzie

for first-class bug-chasing and methodical testing.

Ross Ridge

for the code that hacks termcap parameterized strings into terminfo.

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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.

1.23 NetSNMP 5.4.1.2

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 43. [47]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
 44. [48]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
 45. [49]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
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 47. [51]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
 48. [52]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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 52. [56]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
 53. [57]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
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1.27 rpm 4.3.2

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1.31 tsrpm 1.8

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1.32 uClibc 0.9.29

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1.33 winpcap 4.0.2

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Source code files have been moved around in v0.6.x releases and
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1.35 zlib 1.2.1.1 :2.0.2.0501961

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