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```
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```

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```
-----
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```

```
-----
-- $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.

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.

```
-----  
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-----  
-- $Id: README.emx,v 1.8 2006/04/22 22:19:37 tom Exp $  
-- Author: Thomas Dickey  
-----
```

You can build ncurses on OS/2 in the EMX environment. But you must build and acquire tools. Not all of the tools distributed with EMX work properly, and some additional ones are required.

First, the configure script distributed with ncurses will not run as-is in EMX. You can generate a new one if you have autoconf built for EMX. You will need the EMX development tools, of course. Get these programs to start:

- GNU m4 program (version 1.4)
- GNU autoconf (version 2.13).
- GNU patch (version 2.5)

Apply the autoconf patches from

- <http://invisible-island.net/autoconf>
- <ftp://invisible-island.net/autoconf>

These are ordered by date:

- autoconf-2.13-20030927.patch.gz
- autoconf-2.13-20030927-emx.patch.gz

I built my development environment for ncurses using EMX 0.9c at the end of 1997. Much of the EMX patch for autoconf was done originally by J.J.G.Ripoll, using a similar environment (he prefers using the 'ash' shell). Newer versions may fix these problems:

- + The pdksh program distributed at Hobbes and Leo (with a 1996 date) is defective. It does not process "here documents" correctly (which renders it useless for running the autoconf script). I built my own copy of pdksh 5.2.13, which does have the bug corrected (documented in the change log for pdksh).
- + I also built from sources (because the distributed binaries did not work) the cmp, diff programs.
-
- Other required utilities such as ar, cat, chmod, cp, gawk, grep, mv, ls, rm, mkdir, sed, sort and tr worked.

Once you have autoconf patched and installed, run 'autoconf' from the top-level

directory of ncurses to generate the EMX-specific configure script.

```
-----  
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-----  
-- $Id: README.MinGW,v 1.5 2011/02/26 16:57:17 tom Exp $  
-- Author: Juergen Pfeifer  
-----
```

This is work in progress, but it's in a state where one can see it works at least on the Windows Console.

You should install the MSYS package, so that you've a shell environment that allows you to run the scripts, especially configure etc. You can get that from <http://www.mingw.org>

To build ncurses for native Windows, you need the MinGW toolchain. The original MinGW toolchain from the above site is only for 32-Bit Windows. As Windows Server - and also regular workstations - are moving to 64-Bit, it seems to be reasonable to have a toolchain that supports both architectures. I recommend to use the TDM gcc toolchain which you can find at <http://tdm-gcc.tdragon.net/download>. Go to the download section and select the bundle installer for tdm64 (MinGW-w64). This installs a multilib version of the gcc toolchain that can compile for native 32- and 64-Bit Windows versions. It also comes with a working pthread implementation.

The latest config and build scripts we use for MinGW have only been tested for the gcc-4.4 compiler toolchain (or better).

Using MinGW is a pragmatic decision, it's the easiest way to port this heavily UNIX based sourcebase to native Windows. The goal is of course to provide the includes, libraries and DLLs to be used with the more common traditional development environments on Windows, mainly with Microsoft Visual Studio.

If you start a bash from the MSYS environment, please make sure that the Microsoft Development tools are in your PATH right after the MinGW tools. The LIB.EXE tool is the only one needed. You need this only if you want to build DLLs that work with native Windows programs. If you don't have any Microsoft Development tools on your machine, consider at least to get the free "Visual C++ 2010 Express Edition". It contains the LIB.EXE tool. You may also use this compiler to test writing native Windows programs using the ncurses DLLs without using MinGW then for writing apps.

It is necessary to unset the TERM environment variable, to activate the Windows console-driver.

Please also make sure that MSYS links to the correct directory containing your MinGW toolchain. For TDM this is usually C:\MinGW64. In your Windows

CMD.EXE command shell go to the MSYS root directory (most probably C:\MSYS or C:\MSYS\1.0) and verify, that there is a junction point mingw that points to the MinGW toolchain directory. If not, delete the mingw directory and use the mklink command (or the linkd.exe utility on older Windows) to create the junction point.

This code requires WindowsNT 5.1 or better, which means on the client Windows XP or better, on the server Windows Server 2003 or better.

In order to build ncurses for the planned interop layer with .NET, we recommend to use these options with configure

```

 --disable-home-terminfo
 --enable-reentrant
 --enable-sp-funcs
 --enable-term-driver
 --enable-interop
 --with-pthread      (if using TDM toolchain as recommended)

```

This is the configuration commandline as I'm using it at the moment:

```

./configure \
--prefix=/mingw \
--without-cxx-binding \
--without-ada \
--enable-warnings \
--enable-assertions \
--enable-reentrant \
--with-debug \
--with-normal \
--disable-home-terminfo \
--enable-sp-funcs \
--enable-term-driver \
--enable-interop \
--with-pthread

```

If you are on a 64-Bit Windows system and want to build a 32-Bit version of ncurses, you may use this commandline for configuration (when using the TDM toolchain):

```

CC="gcc -m32" LD="ld -m32" ./configure \
--prefix=/mingw \
--without-cxx-binding \
--without-ada \
--enable-warnings \
--enable-assertions \
--enable-reentrant \
--with-debug \
--with-normal \
--disable-home-terminfo \
--enable-sp-funcs \
--enable-term-driver \
--enable-interop \
--with-pthread

```

All the options above are - like the whole Windows support - experimental.

In order to build the DLLs, after your regular make you must call

```
make dlls
```

A lot is still TODO, e.g.:

- Wide Character support
The Win32Con driver should actually only use Unicode in the future.
- Thread support (locking). If using TDM toolchain this is done by configuring pthreads.
- A GUI console driver
- Support for Terminals attached via a serial port (via terminfo)
- Support for networked Terminal connections (via terminfo)
- Workarounds for MinGW's filesystem access are necessary to make infocmp work (though tic works).

To support terminfo, we need to have an ioctl() simulation for the serial and networked Terminals.

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```
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```

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

```
-----
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```

```
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- 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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ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.3 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format). These documents are also available in other formats from <ftp://ftp.uu.net/graphics/png/documents/zlib/zdoc-index.html>

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact zlib@gzip.org). A usage example of the library is given in the file `example.c` which also tests that the library is working correctly. Another example is given in the file `minigzip.c`. The

compression library itself is composed of all source files except example.c and minigzip.c.

To compile all files and run the test program, follow the instructions given at the top of Makefile. In short "make test; make install" should work for most machines. For Unix: "./configure; make test; make install". For MSDOS, use one of the special makefiles such as Makefile.msc. For VMS, use make_vms.com.

Questions about zlib should be sent to <zlib@gzip.org>, or to Gilles Vollant <info@winimage.com> for the Windows DLL version. The zlib home page is <http://www.zlib.org> or <http://www.gzip.org/zlib/> Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://www.gzip.org/zlib/zlib_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available in <http://dogma.net/markn/articles/zlibtool/zlibtool.htm>

The changes made in version 1.2.3 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory "contrib".

A Java implementation of zlib is available in the Java Development Kit <http://java.sun.com/j2se/1.4.2/docs/api/java/util/zip/package-summary.html> See the zlib home page <http://www.zlib.org> for details.

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is in the CPAN (Comprehensive Perl Archive Network) sites <http://www.cpan.org/modules/by-module/Compress/>

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see <http://www.python.org/doc/lib/module-zlib.html>

A zlib binding for TCL written by Andreas Kupries <a.kupries@westend.com> is available at http://www.oche.de/~akupries/soft/trf/trf_zip.html

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formerly OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS, BEOS and by some Mac compilers.
- For PalmOs, see <http://palmzlib.sourceforge.net/>
- When building a shared, i.e. dynamic library on Mac OS X, the library must be installed before testing (do "make install" before "make test"), since the library location is specified in the library.

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly Mark Adler
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=====

loginrec.c

loginrec.h

atomicio.h

atomicio.c

and strlcat() (included in util.c) are from OpenSSH 3.6.1p2, and are licensed
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loginrec is written primarily by Andre Lucas, atomicio.c by Theo de Raadt.

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□ mini_httpd - small HTTP server
□□ version 1.23 of 28Dec2015

mini_httpd is a small HTTP server. Its performance is not great, but for
low or medium traffic sites it's quite adequate. It implements all the
basic features of an HTTP server, including:

- * GET, HEAD, and POST methods.
- * CGI.
- * Basic authentication.
- * Security against ".." filename snooping.
- * The common MIME types.
- * Trailing-slash redirection.
- * index.html, index.htm, index.cgi
- * Directory listings.
- * Multihoming / virtual hosting.
- * Standard logging.
- * Custom error pages.

It can also be configured to do SSL/HTTPS.

mini_httpd was written for a couple reasons. One, as an experiment to see just how slow an old-fashioned forking web server would be with today's operating systems. The answer is, surprisingly, not that slow - on FreeBSD 3.2, mini_httpd benchmarks at about 90% the speed of Apache. The other main reason for writing mini_httpd was to get a simple platform for experimenting with new web server technology, for instance SSL.

See the manual entry for more details.

Files in this distribution:

```
README    this
Makefile  guess
mini_httpd.c  source file for server
mini_httpd.8  manual entry for server
version.h  version defines
port.h     portability defines
mime_types.txt  list of MIME types
htpasswd.c  source file for password changer
htpasswd.1  manual entry for password changer
index.html  sample index file
```

To build: If you're on a SysV-like machine (which includes old Linux systems but not new Linux systems), edit the Makefile and uncomment the SYSVLIBS line. If you're doing SSL, uncomment those lines too. Otherwise, just do a make.

On Red Hat Linux systems you can use RPM to install mini_httpd, like so:

```
cd /usr/src/redhat/SOURCES
wget http://www.acme.com/software/mini_httpd/mini_httpd-1.20.tar.gz
rpm -ta mini_httpd-1.20.tar.gz
rpm -i /usr/src/redhat/RPMS/i386/mini_httpd-1.20-1.i386.rpm
```

Feedback is welcome - send bug reports, enhancements, checks, money orders, etc. to the addresses below.

Jef Poskanzer jef@mail.acme.com <http://www.acme.com/jef/>

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```
-----
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 */
```

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It includes the following 3rd parties SW/modules:

/*

upload.exe -- Upload a file to a server using forms.

DESCRIPTION

This is a CGI program to upload one or more files to a WWW server, using standard HTML forms instead of FTP. It works with Netscape 3.0 and 4.0, and Internet Explorer 4.0.

See the manpage for more information.



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AUTHOR

Jeroen C. Kessels
Internet Engineer
mailto:jeroen@kessels.com http://www.kessels.com/
Tel: +31(0)654 744 702

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VERSION 2.6

*/

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