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util-linux

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module-init-tools

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USING THE IJG JPEG LIBRARY

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This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the JPEG library. Also see jpeglib.h (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

TABLE OF CONTENTS

Overview:
        Functions provided by the library
        Outline of typical usage
Basic library usage:
        Data formats
        Compression details
        Decompression details
        Mechanics of usage: include files, linking, etc
Advanced features:
        Compression parameter selection
        Decompression parameter selection
        Special color spaces

Error handling
Compressed data handling (source and destination managers)
I/O suspension
Progressive JPEG support
Buffered-image mode
Abbreviated datastreams and multiple images
Special markers
Raw (downsampled) image data
Really raw data: DCT coefficients
Progress monitoring
Memory management
Memory usage
Library compile-time options
Portability considerations
Notes for MS-DOS implementors

You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW

Functions provided by the library

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

* Hierarchical storage
* Lossless JPEG
* Arithmetic entropy coding (unsupported for legal reasons)

        * DNL marker
        * Nonintegral subsampling ratios
We support both 8- and 12-bit data precision, but this is a compile-time
choice rather than a run-time choice; hence it is difficult to use both
precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in
particular the widely used JFIF file format. The library can be used by
surrounding code to process interchange or abbreviated JPEG datastreams that
are embedded in more complex file formats. (For example, this library is
used by the free LIBTIFF library to support JPEG compression in TIFF.)

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==========

zlib

==========

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
  version 1.2.11, January 15th, 2017

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  The data format used by the zlib library is described by RFCs (Request for
  Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
  (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/
```

==========

coreutils

==========

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Version 2, June 1991

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==
ncurses
==

Announcing ncurses 5.7

The ncurses (new curses) library is a free software emulation of
curses in System V Release 4.0, and more. It uses terminfo format,
supports pads and color and multiple highlights and forms characters
and function-key mapping, and has all the other SYSV-curses

enhancements over BSD curses.

In mid-June 1995, the maintainer of 4.4BSD curses declared that he considered 4.4BSD curses obsolete, and encouraged the keepers of Unix releases such as BSD/OS, FreeBSD and NetBSD to switch over to ncurses.

The ncurses code was developed under GNU/Linux. It has been in use for some time with OpenBSD as the system curses library, and on FreeBSD and NetBSD as an external package. It should port easily to any ANSI/POSIX-conforming UNIX. It has even been ported to OS/2 Warp!

The distribution includes the library and support utilities, including a terminfo compiler tic(1), a decompiler infocmp(1), clear(1), tput(1), tset(1), and a termcap conversion tool captoinfo(1). Full manual pages are provided for the library and tools.

The ncurses distribution is available via anonymous FTP at the GNU distribution site [1]ftp://ftp.gnu.org/gnu/ncurses/ .
It is also available at [2]ftp://invisible-island.net/ncurses/ .

Release Notes

This release is designed to be upward compatible from ncurses 5.0 through 5.6; very few applications will require recompilation, depending on the platform. These are the highlights from the change-log since ncurses 5.6 release.

Interface changes:
- generate linkable stubs for some macros:
  getattrs

New features and improvements:
- library
  - new flavor of the ncurses library provides rudimentary support for POSIX threads. Several functions are reentrant, but most require either a window-level or screen-level mutex. (This is API-compatible, but not ABI-compatible with the normal library).
  - add NCURSES_OPAQUE symbol to curses.h, will use to make structs opaque in selected configurations.
  - add NCURSES_EXT_FUNCS and NCURSES_EXT_COLORS symbols to curses.h to make it simpler to tell if the extended functions and/or colors are declared.
  - add wresize() to C++ binding
  - eliminate fixed-buffer vsprintf() calls in C++ binding.
  - add several functions to C++ binding which wrap C functions that pass a WINDOW* parameter.
  - adapt mouse-handling code from menu library in form-library
  - improve tracing for form library, showing created forms, fields, etc.
  - make $NCURSES_NO_PADDING feature work for termcap interface .
  - add check to trace-file open, if the given name is a directory, add ".log" to the name and try again.
  - several new manpages: curs_legacy.3x, curs_memleaks.3x, curs_opaque.3x and curs_threads.3x
- programs:
  - modified three test-programs to demonstrate the threading support in this version: ditto, rain, worm.

+ several new test-programs: demo_panels, dots_mvcur, inch_wide, inchs, key_name, key_names, savescreen, savescreen.sh test_arrays, test_get_wstr, test_getstr, test_instr, test_inwstr and test_opaque.
+ add adacurses-config to the Ada95 install.
+ modify tic -f option to format spaces as \s to prevent them from being lost when that is read back in unformatted strings.
+ The tack program is now distributed separately from ncurses.

* terminal database
+ added entries:
o Eterm-256color, Eterm-88color and rxvt-88color
o aterm
o konsole-256color
o mrxvt
o screen.mlterm
o screen.rxvt
o teraterm4.59 is now the primary primary teraterm entry, renamed original to teraterm2.3
o 9term terminal
o Newbury Data entries
+ updated/improved entries:
o gnome to version 2.22.3
o h19, z100
o konsole to version 1.6.6
o mlterm, mlterm+pcfkeys
o xterm, and building-blocks for function-keys to [3]xterm patch #230.

Major bug fixes:
* add logic to tic for cancelling strings in user-defined capabilities (this is needed for current konsole terminfo entry).
* modify mk-1st.awk so the generated makefile rules for linking or installing shared libraries do not first remove the library, in case it is in use, e.g., libncurses.so by /bin/sh.
* correct check for notimeout() in wgetch().
* fix a sign-extension bug in infocmp's repair_acsc() function.
* change winnstr() to stop at the end of the line.
* make Ada95 demo_panels() example work.
* fix for adding a non-spacing character at the beginning of a line.
* fill in extended-color pair to make colors work for wide-characters using extended-colors.
* improve refresh of window on top of multi-column characters, taking into account split characters on left/right window boundaries.
* modify win_wchnstr() to ensure that only a base cell is returned for each multi-column character.
* improve waddch() and winsch() handling of EILSEQ from mbrtowc() by using unctrl() to display illegal bytes rather than trying to append further bytes to make up a valid sequence.
* restore curs_set() state after endwin()/refresh()
* modify keyname() to use "^X" form only if meta() has been called, or if keyname() is called without initializing curses, e.g., via initscr() or newterm().
* modify unctrl() to check codes in 128-255 range versus isprint(). If they are not printable, and locale was set, use a "M-" or "~" sequence.
* improve resizeterm() by moving ripped-off lines, and repainting

the soft-keys.
* modify form library to accept control characters such as newline in set_field_buffer(), which is compatible with Solaris.
* use NCURSES_MOUSE_MASK() in definition of BUTTON_RELEASE(), etc., to make those work properly with the --enable-ext-mouse configuration
* correct some functions in Ada95 binding which were using return value from C where none was returned.
* reviewed/fixed issues reported by Coverity and Klocwork tools.

Portability:
* configure script:
+ new options:

--disable-big-strings
control whether static string tables are generated as single large strings (to improve startup performance), or as array of individual strings.

--disable-relink
control whether shared libraries are relinked (during install) when rpath is enabled.

--disable-tic-depends
make explicit whether tic library depends on ncurses/ncursesw library.

--enable-mixed-case
override the configure script's check if the filesystem supports mixed-case filenames. This allows one to control how the terminal database maps to the filesystem. For filesystems that do not support mixed-case, the library uses generate 2-character (hexadecimal) codes for the lower-level of the filesystem terminfo database

--enable-reentrant
builds a different flavor of the ncurses library (ncursest) which improves reentrant use of the library by reducing global and static variables (see the "--with-pthread" option for the threaded support).

--enable-weak-symbols
use weak-symbols for linking to the POSIX thread library, and use the same soname for the ncurses shared library as the normal library (caveat: the ABI is for the threaded library, which makes global data accessed via functions).

--with-pthread
build with the POSIX thread library (tested with AIX, Linux, FreeBSD, OpenBSD, HPUX, IRIX64, Solaris, Tru64).

--with-ticlib
build/install the tic-support functions in a separate library

+ improved options:

--enable-ext-colors
requires the wide-character configuration.

--with-chtype
ignore option value "unsigned" is always added to the type in curses.h; do the same for --with-mmask-t.

--with-dmalloc
build-fix for redefinition of strndup.

--with-hashed-db
accepts a parameter which is the install-prefix of a given Berkeley Database.

--with-hashed-db
the $LIBS environment variable overrides the search for the db library.

--without-hashed-db
assumed when "--disable-database" is used.

* other configure/build issues:
+ build-fixes for LynxOS
+ modify shared-library rules to allow FreeBSD 3.x to use rpath.
+ build-fix for FreeBSD "contemporary" TTY interface.
+ build-fixes for AIX with libtool.
+ build-fixes for Darwin and libtool.
+ modify BeOS-specific ifdef's to build on Haiku.
+ corrected gcc options for building shared libraries on Solaris and IRIX64.
+ change shared-library configuration for OpenBSD, make rpath work.
+ build-fixes for using libutf8, e.g., on OpenBSD 3.7
+ add "-e" option in ncurses/Makefile.in when generating source-files to force earlier exit if the build environment fails unexpectedly.
+ add support for shared libraries for QNX.
+ change delimiter in MKlib_gen.sh from '%' to '@', to avoid substitution by IBM xlc to '#' as part of its extensions to digraphs.
* library:
+ rewrite wrapper for wcrtomb(), making it work on Solaris. This is used in the form library to determine the length of the buffer needed by field_buffer.
+ add/use configure script macro CF_SIG_ATOMIC_T, use the corresponding type for data manipulated by signal handlers.
+ set locale in misc/ncurses-config.in since it uses a range
+ disable GPM mouse support when $TERM does not happen to contain "linux", since Gpm_Open() no longer limits its assertion to terminals that it might handle, e.g., within "screen" in xterm.
+ reset mouse file-descriptor when unloading GPM library.
* test programs:

+ update test programs to build/work with various UNIX curses for comparisons.

Features of Ncurses

The ncurses package is fully compatible with SVr4 (System V Release 4) curses:

* All 257 of the SVr4 calls have been implemented (and are documented).
* Full support for SVr4 curses features including keyboard mapping, color, forms-drawing with ACS characters, and automatic recognition of keypad and function keys.
* An emulation of the SVr4 panels library, supporting a stack of windows with backing store, is included.
* An emulation of the SVr4 menus library, supporting a uniform but flexible interface for menu programming, is included.
* An emulation of the SVr4 form library, supporting data collection through on-screen forms, is included.
* Binary terminfo entries generated by the ncurses tic(1) implementation are bit-for-bit-compatible with the entry format SVr4 curses uses.
* The utilities have options to allow you to filter terminfo entries for use with less capable curses/terminfo versions such as the HP/UX and AIX ports.

The ncurses package also has many useful extensions over SVr4:

* The API is 8-bit clean and base-level conformant with the X/OPEN curses specification, XSI curses (that is, it implements all BASE level features, and most EXTENDED features). It includes many function calls not supported under SVr4 curses (but portability of all calls is documented so you can use the SVr4 subset only).
* Unlike SVr3 curses, ncurses can write to the rightmost-bottommost corner of the screen if your terminal has an insert-character capability.
* Ada95 and C++ bindings.
* Support for mouse event reporting with X Window xterm and FreeBSD and OS/2 console windows.
* Extended mouse support via Alessandro Rubini's gpm package.
* The function wresize() allows you to resize windows, preserving their data.
* The function use_default_colors() allows you to use the terminal's default colors for the default color pair, achieving the effect of transparent colors.
* The functions keyok() and define_key() allow you to better control the use of function keys, e.g., disabling the ncurses KEY_MOUSE, or by defining more than one control sequence to map to a given key code.
* Support for 256-color terminals, such as modern xterm, when configured using the --enable-ext-colors option.
* Support for 16-color terminals, such as aixterm and modern xterm.
* Better cursor-movement optimization. The package now features a cursor-local-movement computation more efficient than either BSD's or System V's.
* Super hardware scrolling support. The screen-update code incorporates a novel, simple, and cheap algorithm that enables it to make optimal use of hardware scrolling, line-insertion, and line-deletion for screen-line movements. This algorithm is more powerful than the 4.4BSD curses quickch() routine.

* Real support for terminals with the magic-cookie glitch. The screen-update code will refrain from drawing a highlight if the magic- cookie unattributed spaces required just before the beginning and after the end would step on a non-space character. It will automatically shift highlight boundaries when doing so would make it possible to draw the highlight without changing the visual appearance of the screen.
* It is possible to generate the library with a list of pre-loaded fallback entries linked to it so that it can serve those terminal types even when no terminfo tree or termcap file is accessible (this may be useful for support of screen-oriented programs that must run in single-user mode).
* The tic(1)/captoinfo utility provided with ncurses has the ability to translate many termcaps from the XENIX, IBM and AT&T extension sets.
* A BSD-like tset(1) utility is provided.
* The ncurses library and utilities will automatically read terminfo entries from $HOME/.terminfo if it exists, and compile to that directory if it exists and the user has no write access to the system directory. This feature makes it easier for users to have personal terminfo entries without giving up access to the system terminfo directory.
* You may specify a path of directories to search for compiled descriptions with the environment variable TERMINFO_DIRS (this generalizes the feature provided by TERMINFO under stock System V.)
* In terminfo source files, use capabilities may refer not just to other entries in the same source file (as in System V) but also to compiled entries in either the system terminfo directory or the user's $HOME/.terminfo directory.
* A script (capconvert) is provided to help BSD users transition from termcap to terminfo. It gathers the information in a TERMCAP environment variable and/or a ~/.termcap local entries file and converts it to an equivalent local terminfo tree under $HOME/.terminfo.
* Automatic fallback to the /etc/termcap file can be compiled in when it is not possible to build a terminfo tree. This feature is neither fast nor cheap, you don't want to use it unless you have to, but it's there.
* The table-of-entries utility toe makes it easy for users to see exactly what terminal types are available on the system.
* The library meets the XSI requirement that every macro entry point have a corresponding function which may be linked (and will be prototype-checked) if the macro definition is disabled with #undef.
* An HTML "Introduction to Programming with NCURSES" document provides a narrative introduction to the curses programming interface.

State of the Package

Numerous bugs present in earlier versions have been fixed; the library is far more reliable than it used to be. Bounds checking in many `dangerous' entry points has been improved. The code is now type-safe according to gcc -Wall. The library has been checked for malloc leaks and arena corruption by the Purify memory-allocation tester.

The ncurses code has been tested with a wide variety of applications

including (versions starting with those noted):

cdk
: Curses Development Kit
[4]http://invisible-island.net/cdk/
[5]http://www.vexus.ca/products/CDK/

ded
: directory-editor
[6]http://invisible-island.net/ded/

dialog
: the underlying application used in Slackware's setup, and the basis for similar applications on GNU/Linux.
[7]http://invisible-island.net/dialog/

lynx
: the character-screen WWW browser
[8]http://lynx.isc.org/release/

Midnight Commander
: file manager
[9]http://www.ibiblio.org/mc/

mutt
: mail utility
[10]http://www.mutt.org/

ncftp
: file-transfer utility
[11]http://www.ncftp.com/

nvi
: New vi versions 1.50 are able to use ncurses versions 1.9.7 and later.
[12]http://www.bostic.com/vi/

pinfo
: Lynx-like info browser.
[13]https://alioth.debian.org/projects/pinfo/

tin
: newsreader, supporting color, MIME [14]http://www.tin.org/

as well as some that use ncurses for the terminfo support alone:

minicom
: terminal emulator
[15]http://alioth.debian.org/projects/minicom/

vile
: vi-like-emacs
[16]http://invisible-island.net/vile/

The ncurses distribution includes a selection of test programs (including a few games).

Who's Who and What's What

Zeyd Ben-Halim started it from a previous package pcurses, written by Pavel Curtis. Eric S. Raymond continued development. Jürgen Pfeifer wrote most of the form and menu libraries. Ongoing work is being done by [17]Thomas Dickey. Thomas Dickey acts as the maintainer for the Free Software Foundation, which holds the copyright on ncurses. Contact the current maintainers at [18]bug-ncurses@gnu.org.

To join the ncurses mailing list, please write email to bug-ncurses-request@gnu.org containing the line:

```
subscribe <name>@<host.domain>
```

This list is open to anyone interested in helping with the development and testing of this package.

Beta versions of ncurses and patches to the current release are made available at [19]ftp://invisible-island.net/ncurses/ .

Future Plans

* Extended-level XPG4 conformance, with internationalization support.
* Ports to more systems, including DOS and Windows.

We need people to help with these projects. If you are interested in working on them, please join the ncurses list.

Other Related Resources

The distribution provides a newer version of the terminfo-format terminal description file once maintained by [20]Eric Raymond . Unlike the older version, the termcap and terminfo data are provided in the same file, and provides several user-definable extensions beyond the X/Open specification.

You can find lots of information on terminal-related topics not covered in the terminfo file at [21]Richard Shuford's archive .

References

1. ftp://ftp.gnu.org/gnu/ncurses/
2. ftp://invisible-island.net/ncurses/
3. http://invisible-island.net/xterm/xterm.log.html#xterm_230
4. http://invisible-island.net/cdk/
5. http://www.vexus.ca/products/CDK/
6. http://invisible-island.net/ded/
7. http://invisible-island.net/dialog/
8. http://lynx.isc.org/release/
9. http://www.ibiblio.org/mc/
10. http://www.mutt.org/
11. http://www.ncftp.com/
12. http://www.bostic.com/vi/
13. https://alioth.debian.org/projects/pinfo/
14. http://www.tin.org/
15. http://alioth.debian.org/projects/minicom/
16. http://invisible-island.net/vile/
17. mailto:dickey@invisible-island.net
18. mailto:bug-ncurses@gnu.org

19. ftp://invisible-island.net/ncurses/
20. http://www.catb.org/~esr/terminfo/
21. http://www.cs.utk.edu/~shuford/terminal_index.html

==
bash
==
Introduction
============

This is GNU Bash, version 3.2. Bash is the GNU Project's Bourne
Again SHell, a complete implementation of the POSIX.2 shell spec,
but also with interactive command line editing, job control on
architectures that support it, csh-like features such as history
substitution and brace expansion, and a slew of other features.
For more information on the features of Bash that are new to this
type of shell, see the file `doc/bashref.texi'. There is also a
large Unix-style man page. The man page is the definitive description
of the shell's features.

See the file POSIX for a discussion of how the Bash defaults differ
from the POSIX.2 spec and a description of the Bash `posix mode'.

There are some user-visible incompatibilities between this version
of Bash and previous widely-distributed versions, bash-1.14 and
bash-2.05b. For details, see the file COMPAT. The NEWS file tersely
lists features that are new in this release.

Bash is free software, distributed under the terms of the [GNU]
General Public License, version 2. For more information, see the
file COPYING.

A number of frequently-asked questions are answered in the file
`doc/FAQ'.

To compile Bash, try typing `./configure', then `make'. Bash
auto-configures the build process, so no further intervention
should be necessary. Bash builds with `gcc' by default if it is
available. If you want to use `cc' instead, type

        CC=cc ./configure

if you are using a Bourne-style shell. If you are not, the following
may work:

        env CC=cc ./configure

Read the file INSTALL in this directory for more information about how
to customize and control the build process. The file NOTES contains
platform-specific installation and configuration information.

If you are a csh user and wish to convert your csh aliases to Bash
aliases, you may wish to use the script `examples/misc/alias-conv.sh'
as a starting point. The script `examples/misc/cshtobash' is a
more ambitious script that attempts to do a more complete job.

Reporting Bugs
==============

Bug reports for bash should be sent to:

        bug-bash@gnu.org

using the `bashbug' program that is built and installed at the same
time as bash.

The discussion list `bug-bash@gnu.org' often contains information
about new ports of Bash, or discussions of new features or behavior
changes that people would like. This mailing list is also available
as a usenet newsgroup: gnu.bash.bug.

When you send a bug report, please use the `bashbug' program that is
built at the same time as bash. If bash fails to build, try building
bashbug directly with `make bashbug'.  If you cannot build `bashbug',
please send mail to bug-bash@gnu.org with the following information:

        * the version number and release status of Bash (e.g., 2.05a-release)
        * the machine and OS that it is running on (you may run
          `bashversion -l' from the bash build directory for this information)
        * a list of the compilation flags or the contents of `config.h', if
          appropriate
        * a description of the bug
        * a recipe for recreating the bug reliably
        * a fix for the bug if you have one!

The `bashbug' program includes much of this automatically.

If you would like to contact the Bash maintainers directly, send mail
to bash-maintainers@gnu.org.

While the Bash maintainers do not promise to fix all bugs, we would
like this shell to be the best that we can make it.

Enjoy!

Chet Ramey
chet.ramey@case.edu

==
udhcpc
==
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procps

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grep

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net-tools

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/* *                                                                   * */
/* ********************************************************************* */
/* *                                                                   * */
/* * Parts of this software have been adapted from the libpng package. * */
/* * Although this library supports all features from the PNG specification * */
/* * (as MNG descends from it) it does not require the libpng package. * */
/* * It does require the zlib library and optionally the IJG jpeg library, * */
/* * and/or the "little-cms" library by Marti Maria (depending on the  * */
/* * inclusion of support for JNG and Full-Color-Management respectively. * */
/* *                                                                   * */
/* * This library's function is primarily to read and display MNG      * */
/* * animations. It is not meant as a full-featured image-editing      * */
/* * component! It does however offer creation and editing functionality * */
/* * at the chunk level.                                               * */
/* * (future modifications may include some more support for creation   * */
/* *  and or editing)                                                  * */
/* *                                                                   * */
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```

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libnl

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==
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  - test-apps/*.c
  - test-apps/*.h
  - lwsws/*

------ end of exceptions

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Version 2.1, February 1999

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tar

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