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Android adaptation and tweak by Jim Huang <jserv@0xlab.org>.

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strtok_r, from Berkeley strtok

Oct 13, 1998 by Wes Peters <wes@softweyr.com>

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Emulation of getentropy(2) as documented at:

<http://www.openbsd.org/cgi-bin/man.cgi/OpenBSD-current/man2/getentropy.2>

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Theo de Raadt <deraadt@openbsd.org>; came up with the idea of using such a mathematical system to generate more random (yet non-repeating) ids to solve the resolver/named problem. But Niels designed the actual system based on the constraints.

Later modified by Damien Miller to wrap the LCG output in a 15-bit permutation generator based on a Luby-Rackoff block cipher. This ensures the output is non-repeating and preserves the MSB twiddle trick, but makes it more resistant to LCG prediction.

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java/android_libs/exoplayer

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java/android_libs/protobuf_nano

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java_src/android_libs/protobuf_nano/v2

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jpeg

(extracted from src/README)

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libunwind

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libvorbis

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libxcb

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libxml

Libxml2, an XML C Parser

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lodepng

LodePNG

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minizip

zlib

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mongoose

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objective_c/gtm_session_fetcher

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opentcm

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xmpmeta

xmpmeta. A fast XMP metadata parsing and writing library.

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* Version 1.3 -- 17-Mar-2006

* <http://modp.com/release/base64>

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A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`

or `init_by_array(init_key, key_length)`.

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README for newlib-2.0.0 release

(mostly cribbed from the README in the gdb-4.13 release)

This is `newlib', a simple ANSI C library, math library, and collection of board support packages.

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Unpacking and Installation -- quick overview

=====

When you unpack the newlib-2.0.0.tar.gz file, you'll find a directory called `newlib-2.0.0', which contains:

COPYING config/ install-sh* mpw-configure
COPYING.LIB config-ml.in libgloss/ mpw-install
COPYING.NEWLIB config.guess* mkinstalldirs* newlib/
CYGNUS config.sub* move-if-change* symlink-tree*
ChangeLog configure* mpw-README texinfo/
Makefile.in configure.in mpw-build.in
README etc/ mpw-config.in

To build NEWLIB, you must follow the instructions in the section entitled "Compiling NEWLIB".

This will configure and build all the libraries and crt0 (if one exists). If `configure' can't determine your host system type, specify one as its argument, e.g., sun4 or sun4sol2. NEWLIB is most often used in cross environments.

NOTE THAT YOU MUST HAVE ALREADY BUILT AND INSTALLED GCC and BINUTILS.

More Documentation

=====

Newlib documentation is available on the net via:

<http://sourceware.org/newlib/docs.html>

All the documentation for NEWLIB comes as part of the machine-readable distribution. The documentation is written in Texinfo format, which is a documentation system that uses a single source file to produce both on-line information and a printed manual. You can use one of the Info formatting commands to create the on-line version of the documentation and TeX (or `texi2roff') to typeset the printed version.

If you want to format these Info files yourself, you need one of the Info formatting programs, such as `texinfo-format-buffer' or `makeinfo'. If you want to typeset and print copies of this manual, you need TeX, a program to print its DVI output files, and `texinfo.tex', the Texinfo definitions file.

TeX is a typesetting program; it does not print files directly, but produces output files called DVI files. To print a typeset document, you need a program to print DVI files. If your system has TeX installed, chances are it has such a program. The precise command to use depends on your system; `lpr -d' is common; another (for PostScript devices) is `dvips'. The DVI print command may require a file name without any extension or a `.dvi' extension.

TeX also requires a macro definitions file called `texinfo.tex'. This file tells TeX how to typeset a document written in Texinfo format. On its own, TeX cannot read, much less typeset a Texinfo file. `texinfo.tex' is distributed with NEWLIB and is located in the `newlib-VERSION-NUMBER/texinfo' directory.

Compiling NEWLIB

=====

To compile NEWLIB, you must build it in a directory separate from the source directory. If you want to run NEWLIB versions for several host or target machines, you need a different `newlib' compiled for each combination of host and target. `configure' is designed to make this easy by allowing

you to generate each configuration in a separate subdirectory.

If your `make` program handles the `VPATH` feature correctly (like GNU `make`) running `make` in each of these directories builds the `newlib` libraries specified there.

To build `newlib` in a specific directory, run `configure` with the `--srcdir` option to specify where to find the source. (You also need to specify a path to find `configure` itself from your working directory. If the path to `configure` would be the same as the argument to `--srcdir`, you can leave out the `--srcdir` option; it will be assumed.)

For example, with version 2.0.0, you can build NEWLIB in a separate directory for a Sun 4 cross m68k-aout environment like this:

```
cd newlib-2.0.0
mkdir ../newlib-m68k-aout
cd ../newlib-m68k-aout
../newlib-2.0.0/configure --host=sun4 --target=m68k-aout
make
```

When `configure` builds a configuration using a remote source directory, it creates a tree for the binaries with the same structure (and using the same names) as the tree under the source directory. In the example, you'd find the Sun 4 library `libiberty.a` in the directory `newlib-m68k-aout/libiberty`, and NEWLIB itself in `newlib-m68k-aout/newlib`.

When you run `make` to build a program or library, you must run it in a configured directory--whatever directory you were in when you called `configure` (or one of its subdirectories).

The `Makefile` that `configure` generates in each source directory also runs recursively. If you type `make` in a source directory such as `newlib-2.0.0` (or in a separate configured directory configured with `--srcdir=PATH/newlib-2.0.0`), you will build all the required libraries.

When you have multiple hosts or targets configured in separate directories, you can run `make` on them in parallel (for example, if they are NFS-mounted on each of the hosts); they will not interfere with each other.

Specifying names for hosts and targets

=====

The specifications used for hosts and targets in the `configure` script are based on a three-part naming scheme, but some short predefined aliases are also supported. The full naming scheme encodes three pieces of information in the following pattern:

ARCHITECTURE-VENDOR-OS

For example, you can use the alias `sun4` as a HOST argument or in a `--target=TARGET` option. The equivalent full name is `sparc-sun-sunos4`.

The `configure` script accompanying NEWLIB does not provide any query facility to list all supported host and target names or aliases.

`configure` calls the Bourne shell script `config.sub` to map abbreviations to full names; you can read the script, if you wish, or you can use it to test your guesses on abbreviations--for example:

```
% sh config.sub sun4
sparc-sun-sunos4.1.1
% sh config.sub sun3
```

```
m68k-sun-sunos4.1.1
% sh config.sub decstation
mips-dec-ultrix4.2
% sh config.sub hp300bsd
m68k-hp-bsd
% sh config.sub i386v
i386-pc-sysv
% sh config.sub i786v
```

Invalid configuration `i786v': machine `i786v' not recognized

The Build, Host and Target Concepts in newlib

=====
The build, host and target concepts are defined for gcc as follows:

build: the platform on which gcc is built.

host: the platform on which gcc is run.

target: the platform for which gcc generates code.

Since newlib is a library, the target concept does not apply to it, and the build, host, and target options given to the top-level configure script must be changed for newlib's use.

The options are shifted according to these correspondences:

gcc's build platform has no equivalent in newlib.

gcc's host platform is newlib's build platform.

gcc's target platform is newlib's host platform.

and as mentioned before, newlib has no concept of target.

`configure' options

=====
Here is a summary of the `configure' options and arguments that are most often useful for building NEWLIB. `configure' also has several other options not listed here.

configure [--help]

[--prefix=DIR]

[--srcdir=PATH]

[--target=TARGET] HOST

You may introduce options with a single '-' rather than '--' if you prefer; but you may abbreviate option names if you use '--'.

'--help'

Display a quick summary of how to invoke `configure'.

'--prefix=DIR'

Configure the source to install programs and files in directory `DIR'.

'--exec-prefix=DIR'

Configure the source to install host-dependent files in directory `DIR'.

'--srcdir=PATH'

*Warning: using this option requires GNU `make', or another `make' that compatibly implements the `VPATH' feature.

Use this option to make configurations in directories separate from the NEWLIB source directories. Among other things, you can use this to build (or maintain) several configurations simultaneously, in separate directories. `configure' writes configuration specific files in the current directory, but arranges for them to use the source in the directory PATH. `configure' will create directories under the working directory in parallel to the source

directories below PATH.

``--norecursion'`

Configure only the directory level where ``configure'` is executed; do not propagate configuration to subdirectories.

``--target=TARGET'`

Configure NEWLIB for running on the specified TARGET. There is no convenient way to generate a list of all available targets.

``HOST ...'`

Configure NEWLIB to be built using a cross compiler running on the specified HOST.

There is no convenient way to generate a list of all available hosts.

To fit diverse usage models, NEWLIB supports a group of configuration options so that library features can be turned on/off according to target system's requirements.

One feature can be enabled by specifying ``--enable-FEATURE=yes'` or ``--enable-FEATURE'`. Or it can be disabled by ``--enable-FEATURE=no'` or ``--disable-FEATURE'`.

``--enable-newlib-io-pos-args'`

Enable printf-family positional arg support.

Disabled by default, but some hosts enable it in `configure.host`.

``--enable-newlib-io-c99-formats'`

Enable C99 support in IO functions like `printf/scanf`.

Disabled by default, but some hosts enable it in `configure.host`.

``--enable-newlib-register-fini'`

Enable finalization function registration using `atexit`.

Disabled by default.

``--enable-newlib-io-long-long'`

Enable long long type support in IO functions like `printf/scanf`.

Disabled by default, but many hosts enable it in `configure.host`.

``--enable-newlib-io-long-double'`

Enable long double type support in IO functions `printf/scanf`.

Disabled by default, but some hosts enable it in `configure.host`.

``--enable-newlib-mb'`

Enable multibyte support.

Disabled by default.

``--enable-newlib-iconv-encodings'`

Enable specific comma-separated list of bidirectional iconv encodings to be built-in.

Disabled by default.

``--enable-newlib-iconv-from-encodings'`

Enable specific comma-separated list of `"from"` iconv encodings to be built-in.

Disabled by default.

``--enable-newlib-iconv-to-encodings'`

Enable specific comma-separated list of `"to"` iconv encodings to be built-in.

Disabled by default.

``--enable-newlib-iconv-external-ccs'`

Enable capabilities to load external CCS files for iconv.

Disabled by default.

`--disable-newlib-atexit-dynamic-alloc`

Disable dynamic allocation of atexit entries.

Most hosts and targets have it enabled in `configure.host`.

`--enable-newlib-reent-small`

Enable small reentrant struct support.

Disabled by default.

`--disable-newlib-fvwrite-in-streamio`

NEWLIB implements the vector buffer mechanism to support stream IO buffering required by C standard. This feature is possibly unnecessary for embedded systems which won't change file buffering with functions like `setbuf` or `setvbuf`. The buffering mechanism still acts as default for `STDIN/STDOUT/STDERR` even if this option is specified.

Enabled by default.

`--disable-newlib-fseek-optimization`

Disable `fseek` optimization. It can decrease code size of application calling `fseek`.

Enabled by default.

`--disable-newlib-wide-orient`

C99 states that each stream has an orientation, wide or byte. This feature is possibly unnecessary for embedded systems which only do byte input/output operations on stream. It can decrease code size by disable the feature.

Enabled by default.

`--enable-newlib-nano-malloc`

NEWLIB has two implementations of `malloc` family's functions, one in `mallocl.c` and the other one in `nano-mallocl.c`. This options enables the nano-malloc implementation, which is for small systems with very limited memory. Note that this implementation does not support `--enable-malloc-debugging` any more.

Disabled by default.

`--disable-newlib-unbuf-stream-opt`

NEWLIB does optimization when `fprintf` to write only unbuffered unix file'. It creates a temporary buffer to do the optimization that increases stack consumption by about `BUFSIZ` bytes. This option disables the optimization and saves size of text and stack.

Enabled by default.

`--enable-multilib`

Build many library versions.

Enabled by default.

`--enable-target-optspace`

Optimize for space.

Disabled by default.

`--enable-malloc-debugging`

Indicate `malloc` debugging requested.

Disabled by default.

`--enable-newlib-multithread`

Enable support for multiple threads.

Enabled by default.

`--enable-newlib-iconv`

Enable `iconv` library support.

Disabled by default.

`--enable-newlib-elix-level'

Supply desired elix library level (1-4). Please refer to HOWTO for more information about this option.

Set to level 0 by default.

`--disable-newlib-io-float'

Disable printf/scanf family float support.

Enabled by default.

`--disable-newlib-supplied-syscalls'

Disable newlib from supplying syscalls.

Enabled by default.

`--enable-lite-exit'

Enable lite exit, a size-reduced implementation of exit that doesn't invoke clean-up functions such as `_fini` or global destructors.

Disabled by default.

Running the Testsuite

=====

To run newlib's testsuite, you'll need a `site.exp` in your home directory which points dejagnu to the proper baseboards directory and the proper exp file for your target.

Before running `make check-target-newlib`, set the `DEJAGNU` environment variable to point to `~/site.exp`.

Here is a sample `site.exp`:

```
# Make sure we look in the right place for the board description files.
```

```
if ![info exists boards_dir] {
```

```
  set boards_dir {}
```

```
}
```

```
lappend boards_dir "your dejagnu/baseboards here"
```

```
verbose "Global Config File: target_triplet is $target_triplet" 2
```

```
global target_list
```

```
case "$target_triplet" in {
```

```
  {"mips-*elf*" } {
```

```
    set target_list "mips-sim"
```

```
  }
```

```
default {
```

```
  set target_list { "unix" }
```

```
}
```

```
}
```

`mips-sim` refers to an exp file in the baseboards directory. You'll need to add the other targets you're testing to the case statement.

Now type `make check-target-newlib` in the top-level build directory to run the testsuite.

Shared newlib

=====

`newlib` uses `libtool` when it is being compiled natively (with `--target=i[34567]86-pc-linux-gnu`) on an `i[34567]86-pc-linux-gnu` host. This allows `newlib` to be compiled as a shared library.

To configure `newlib`, do the following from your build directory:

```
$(source_dir)/src/configure --with-newlib --prefix=$(install_dir)
```

`configure` will recognize that `host == target ==`

`i[34567]86-pc-linux-gnu`, so it will tell `newlib` to compile itself using `libtool`. By default, `libtool` will build shared and static versions of `newlib`.

To compile a program against shared newlib, do the following (where

`target_install_dir = $(install_dir)/i[34567]86-pc-linux-gnu`):

```
gcc -nostdlib $(target_install_dir)/lib/crt0.o progname.c -I $(target_install_dir)/include -L
```

```
$(target_install_dir)/lib -lc -lm -lgcc
```

To run the program, make sure that `$(target_install_dir)/lib` is listed

in the `LD_LIBRARY_PATH` environment variable.

To create a static binary linked against newlib, do the following:

```
gcc -nostdlib -static $(target_install_dir)/lib/crt0.o progname.c -I $(target_install_dir)/include -L
```

```
$(target_install_dir)/lib -lc -lm
```

libtool can be instructed to produce only static libraries. To build

newlib as a static library only, do the following from your build

directory:

```
$(source_dir)/src/configure --with-newlib --prefix=$(install_dir) --disable-shared
```

Regenerating Configuration Files

```
=====
```

At times you will need to make changes to `configure.in` and `Makefile.am` files.

This will mean that `configure` and `Makefile.in` files will need to be

regenerated.

At the top level of newlib is the file: `acinclude.m4`. This file contains

the definition of the `NEWLIB_CONFIGURE` macro which is used by all `configure.in`

files in newlib. You will notice that each directory in newlib containing

a `configure.in` file also contains an `aclocal.m4` file. This file is

generated by issuing: `aclocal -I${relative_path_to_toplevel_newlib_dir}`

```
-I${relative_path_to_toplevel_src_dir}
```

The first relative directory is to access `acinclude.m4`. The second relative

directory is to access libtool information in the top-level `src` directory.

For example, to regenerate `aclocal.m4` in `newlib/libc/machine/arm`:

```
aclocal -I ../.. -I ../../..
```

Note that if the top level `acinclude.m4` is altered, every `aclocal.m4` file

in newlib should be regenerated.

If the `aclocal.m4` file is regenerated due to a change in `acinclude.m4` or

if a `configure.in` file is modified, the corresponding `configure` file in the

directory must be regenerated using `autoconf`. No parameters are necessary.

In the previous example, we would issue:

```
autoconf
```

from the `newlib/libc/machine/arm` directory.

If you have regenerated a `configure` file or if you have modified a `Makefile.am`

file, you will need to regenerate the appropriate `Makefile.in` file(s).

For newlib, `automake` is a bit trickier. First of all, all `Makefile.in`

files in newlib (and `libgloss`) are generated using the `--cygnus` option

of `automake`.

`Makefile.in` files are generated from the nearest directory up the chain

which contains a `configure.in` file. In most cases, this is the same

directory containing `configure.in`, but there are exceptions.

For example, the `newlib/libc` directory has a number of

subdirectories that do not contain their own `configure.in` files (e.g. `stdio`).

For these directories, you must issue the `automake` command from `newlib/libc`

which is the nearest parent directory that contains a `configure.in`.

When you issue the `automake` command, you specify the subdirectory for

the `Makefile.in` you are regenerating. For example:

```
automake --cygnus stdio/Makefile stdlib/Makefile
```

Note how multiple `Makefile.in` files can be created in the same step. You

would not specify machine/Makefile or sys/Makefile in the previous example because both of these subdirectories contain their own configure.in files.

One would change to each of these subdirectories and in turn issue:

```
automake --cygnus Makefile
```

Let's say you create a new machine directory XXXX off of newlib/libc/machine.

After creating a new configure.in and Makefile.am file, you would issue:

```
aclocal -I ../../..
```

```
autoconf
```

```
automake --cygnus Makefile
```

```
from newlib/libc/machine/XXXX
```

It is strongly advised that you use an adequate version of autotools.

For this latest release, the following were used: autoconf 2.68, aclocal 1.11.6, and

automake 1.11.6.

Reporting Bugs

=====

The correct address for reporting bugs found in NEWLIB is "newlib@sourceware.org". Please email all bug reports to that address. Please include the NEWLIB version number (e.g., newlib-2.0.0), and how you configured it (e.g., "sun4 host and m68k-aout target"). Since NEWLIB supports many different configurations, it is important that you be precise about this.

Archives of the newlib mailing list are on-line, see

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,
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,
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Stanislav Karchebny (options parser)

Mathieu Monnier (SSE4 instruction patches, NASM preprocessor additions)

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Henryk Richter (Mach-O object format)

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Component Name: Cocoa extension code from Camino

Component Name: hunspell

Component Name: hunspell dictionaries

Component Name: Netscape Portable Runtime (NSPR)

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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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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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.

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better. However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

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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.)

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