

NAME

How to build fstrcmp

SPACE REQUIREMENTS

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BEFORE YOU START

There are a few pieces of software you may want to fetch and install before you proceed with your installation of fstrcmp

GNU libtool

*The libtool program is used to build shared libraries. It understands necessary weird and wonderful compiler and linker tricks on many weird and wonderful systems.
<http://www.gnu.org/software/libtool/>*

GNU Groff

The documentation for the fstrcmp package was prepared using the GNU Groff package version 1.1 or later. This distribution includes full documentation which may be processed into Post Script or DVI files at install time if GNU Groff has been installed.

GCC *o u may also want to consider fetching and installing the GNU C Compiler if you have not done so already. This is not essential. The fstrcmp program was developed using the GNU C compiler.*

The GNU FTP archives may be found at <ftp.gnu.org> and are mirrored around the world.

SITE CONFIGURATION

The fstrcmp package is configured using the configure program included in the source distribution.

The configure shell script attempts to guess correct values for various system-dependent variables used during compilation and creates the Makefile and lib/config.h files. It also creates a shell script config.status that you can run in the future to recreate the current configuration.

Normally you must cd to the directory containing fstrcmp's source code and then type

```
./configure  
...lots of output...
```

If you're using csh on an old version of System V you might need to type

```
sh configure  
...lots of output...
```

instead to prevent csh from trying to execute configure itself.

Running configure takes a minute or two. While it is running it prints some messages that tell what it is doing. If you don't want to see the messages run configure using the quiet option for example

```
./configure quiet
```

To compile the fstrcmp package in a different directory from the one containing the source code you must use a version of make that supports the VPATH variable such as GNU make. Then cd to the directory where you want the object files and executables to go and run the configure script. The configure script automatically checks for the source code in the directory that configure is in and in .. the parent directory. If for some reason configure is not in the source code directory that you are configuring then it will report that it can't find the source code. In that case run configure with the option srcdir DIR where DIR is the directory that contains the source code.

By default configure will arrange for the make install command to install the fstrcmp package's files in /usr/local/bin /usr/local/lib /usr/local/include and /usr/local/man. There are options which allow you to control the placement of these files.

- prefix* *PATH*
 This specifies the path prefix to be used in the installation. Defaults to /usr/local unless otherwise specified.
- execprefix* *PATH*
 o u can specify separate installation prefixes for architecture specific files. Defaults to \${prefix} unless otherwise specified.
- bindir* *PATH*
 This directory contains executable programs. On a network this directory may be shared between machines with identical hardware and operating systems it may be mounted readonly. Defaults to \${exec_prefix}/bin unless otherwise specified.
- mandir* *PATH*
 This directory contains the online manual entries. On a network this directory may be shared between all machines it may be mounted readonly. Defaults to \${prefix}/man unless otherwise specified.

The configure script ignores most other arguments that you get use the *help* option for a complete list.

On systems that require unusual options for compilation or linking that the fstrcmp packages configure script does not know about you can give configure initial values for variables by setting them in the environment. In Bourne compatible shells you can do that on the command line like this

```
$ Cgcc traditional LIBSposix ./configure
...lots of output...
$
```

Here are the make variables that you might want to override with environment variables when running the configure script

Variable *CC*

C compiler program. The default is cc.

Variable *CPPFLAGS*

Preprocessor flags commonly defines and include search paths. Defaults to empty. It is common to use *CPPFLAGS*/usr/local/include to access other installed packages.

Variable *INSTALL*

Program to use to install files. The default is install if you have it, cp otherwise.

Variable *LIBS*

Libraries to link with in the form *l foo l bar*. The configure script will append to this rather than replace it. It is common to use *LIBS*/usr/local/lib to access other installed packages.

If you need to do unusual things to compile the package the author encourages you to figure out how the configure script could check whether to do them and mail diffs or instructions to the author so that they can be included in the next release.

BUILDING FSTRCMP

All you should need to do is use the

```
make
...lots of output...
```

command and wait.

o u can remove the program binaries and object files from the source directory by using the

```
make clean
...lots of output...
```

command. To remove all of the above files and also remove the Makefile and lib/config.h and config.status files use the

```

    make distclean
...lots of output...

```

command.

The file `etc/configure.ac` is used to create `configure` by a GNU program called `autoconf`. You only need to know this if you want to regenerate `configure` using a newer version of `autoconf`.

TESTING FSTRCMP

The `fstrcmp` package comes with a test suite. To run this test suite use the command

```

    make sure
...lots of output...
Passed All Tests

```

The tests take a fraction of a second each with most very fast and a couple very slow but it varies greatly depending on your CPU.

If all went well the message

```

    Passed All Tests

```

should appear at the end of the `make`.

INSTALLING FSTRCMP

As explained in the `SITE CONFIGURATION` section above the `fstrcmp` package is installed under the `/usr/local` tree by default. Use the prefix `PATH` option to `configure` if you want some other path. More specific installation locations are assignable use the `help` option to the `configure` script for details.

All that is required to install the `fstrcmp` package is to use the

```

    make install
...lots of output...

```

command. Control of the directories used may be found in the first few lines of the `Makefile` file and the other files written by the `configure` script it is best to reconfigure using the `configure` script rather than attempting to do this by hand.

GETTING HELP

If you need assistance with the `fstrcmp` package please do not hesitate to contact the author at

Peter Miller pmilleropensource.org.au

Any and all feedback is welcome.

When reporting problems please include the version number given by the

```

    explain version 0.7.D001
...warranty disclaimer...

```

command. Please do not send this example run the program for the exact version number.

COPYRIGHT

fstrcmp version 0.7

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The comparison code is derived from the fuzzy comparison functions in GNU Gettext 0.17. The GNU Gettext comparison functions were in turn derived from GNU Diff 3.7.

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