

ftw.h - Man Page

file tree traversal

Prolog

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

Synopsis

```
#include <ftw.h>
```

Description

The *<ftw.h>* header shall define the **FTW** structure, which shall include at least the following members:

```
int    base
int    level
```

The *<ftw.h>* header shall define the following symbolic constants for use as values of the third argument to the application-supplied function that is passed as the second argument to *ftw()* and *nftw()*:

FTW_F

Non-directory file.

FTW_D

Directory.

FTW_DNR

Directory without read permission.

FTW_DP

Directory with subdirectories visited.

FTW_NS

Unknown type; *stat()* failed.

FTW_SL

Symbolic link.

FTW_SLN

Symbolic link that names a nonexistent file.

ftw.h - Man Page

FTW_PHYS

Physical walk, does not follow symbolic links. Otherwise, *nftw()* follows links but does not walk down any path that crosses itself.

FTW_MOUNT

The walk does not cross a mount point.

FTW_DEPTH

All subdirectories are visited before the directory itself.

FTW_CHDIR

The walk changes to each directory before reading it.

The following shall be declared as functions and may also be defined as macros. Function prototypes shall be provided.

```
int ftw(const char *, int (*)(const char *, const struct stat *,
    int), int);
int nftw(const char *, int (*)(const char *, const struct stat *,
    int, struct FTW *), int, int);
```

The *<ftw.h>* header shall define the **stat** structure and the symbolic names for *st_mode* and the file type test macros as described in *<sys/stat.h>*.

Inclusion of the *<ftw.h>* header may also make visible all symbols from *<sys/stat.h>*.

The following sections are informative.

Application Usage

None.

Rationale

None.

Future Directions

None.

See Also

<sys_stat.h>

The System Interfaces volume of POSIX.1-2017, *ftw()*, *nftw()*

ftw.h - Man Page

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Referenced By

[ftw\(3p\)](#), [nftw\(3p\)](#).

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ftw.h - Man Page

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