



## NAME

ftw.h - file tree traversal

## SYNOPSIS

[XSI]  #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.
```

The <ftw.h> header shall define the following symbolic constants for use as values of the fourth argument to [nftw\(\)](#):

```
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.

[OB]   

```
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>](#sysstat.h).

Inclusion of the <ftw.h> header may also make visible all symbols from [<sys/stat.h>](#sysstat.h).

*The following sections are informative.*

## APPLICATION USAGE

None.

## RATIONALE

None.

## FUTURE DIRECTIONS

None.

## SEE ALSO

[<sys/stat.h>](#sysstat.h)

XSH [ftw](#ftw), [nftw](#nftw)

## CHANGE HISTORY

First released in Issue 1. Derived from Issue 1 of the SVID.

### Issue 5

A description of FTW\_DP is added.

### Issue 7

The [ftw\(\)](#ftw) function is marked obsolescent.

This reference page is clarified with respect to macros and symbolic constants.

POSIX.1-2008, Technical Corrigendum 1, XBD/TC1-2008/0048 [403] is applied.

*End of informative text.*

[return to top of page](#)

UNIX ® is a registered Trademark of The Open Group.  
 POSIX ™ is a Trademark of The IEEE.  
 Copyright © 2001-2018 IEEE and The Open Group, All Rights Reserved  
 [ [Main Index](#) | [XBD](#) | [XSH](#) | [XCU](#) | [XRAT](#) ]

[<<< Previous](#)

[Home](#)

[Next >>>](#)