



Linux Ubuntu 26.04 Manual Pages on command 'fnmatch.3'

\$ man fnmatch.3

fnmatch(3) Library Functions Manual fnmatch(3)

NAME

fnmatch - match filename or pathname

LIBRARY

Standard C library (libc, -lc)

SYNOPSIS

```
#include <fnmatch.h>
```

```
int fnmatch(const char *pattern, const char *string, int flags);
```

DESCRIPTION

The `fnmatch()` function checks whether the string argument matches the pattern argument, which is a shell wildcard pattern (see `glob(7)`).

The flags argument modifies the behavior; it is the bitwise OR of zero or more of the following flags:

following flags:

FNM_NOESCAPE

If this flag is set, treat backslash as an ordinary character, instead of an escape character.

FNM_PATHNAME

If this flag is set, match a slash in string only with a slash in pattern and not by an asterisk (*) or a question mark (?) metacharacter, nor by a bracket expression ([]) containing a slash.

FNM_PERIOD

If this flag is set, a leading period in string has to be matched exactly by a period in pattern. A period is considered to be leading if it is the first character in

string, or if both FNM_PATHNAME is set and the period immediately follows a slash.

FNM_FILE_NAME

This is a GNU synonym for FNM_PATHNAME.

FNM_LEADING_DIR

If this flag (a GNU extension) is set, the pattern is considered to be matched if it matches an initial segment of string which is followed by a slash. This flag is mainly for the internal use of glibc and is implemented only in certain cases.

FNM_CASEFOLD

FNM_IGNORECASE (same as FNM_CASEFOLD)

If this flag is set, the pattern is matched case-insensitively.

FNM_EXTMATCH

If this flag (a GNU extension) is set, extended patterns are supported, as introduced by 'ksh' and now supported by other shells. The extended format is as follows, with pattern-list being a '|' separated list of patterns.

'?(pattern-list)'

The pattern matches if zero or one occurrences of any of the patterns in the pattern-list match the input string.

'*(pattern-list)'

The pattern matches if zero or more occurrences of any of the patterns in the pattern-list match the input string.

'+(pattern-list)'

The pattern matches if one or more occurrences of any of the patterns in the pattern-list match the input string.

'@(pattern-list)'

The pattern matches if exactly one occurrence of any of the patterns in the pattern-list match the input string.

'!(pattern-list)'

The pattern matches if the input string cannot be matched with any of the patterns in the pattern-list.

RETURN VALUE

Zero if string matches pattern, FNM_NOMATCH if there is no match or another nonzero value if there is an error.

ATTRIBUTES

```
?
? Interface           ? Attribute   ? Value             ?
?fnmatch()            ? Thread safety ? MT-Safe env locale ?
```

fnmatch()
 POSIX.1-2008.
 FNM_CASEFOLD
 FNM_IGNORECASE
 POSIX.1-2024.
 FNM_FILE_NAME
 FNM_LEADING_DIR
 GNU.

```
fnmatch()
    POSIX.1-2001, POSIX.2.
FNM_CASEFOLD
    has been available on many systems even before POSIX.1-2024.
```

sh(1), glob(3), scandir(3), wordexp(3), glob(7)