### **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 fla gs);

#### 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:

#### 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\_PATH-NAME** 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

If this flag (a GNU extension) 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**

For an explanation of the terms used in this section, see **attributes**(7).

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

## **STANDARDS**

POSIX.1-2001, POSIX.1-2008, POSIX.2. The **FNM\_FILE\_NAME**, **FNM\_LEADING\_DIR**, and **FNM\_CASEFOLD** flags are GNU extensions.

## **SEE ALSO**

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