NAME

fnmatch - test whether a filename or pathname matches a shell-style pattern

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

#include <fnmatch.h>

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

DESCRIPTION

The **fnmatch**() function matches patterns according to the rules used by the shell. It checks the string specified by the *string* argument to see if it matches the pattern specified by the *pattern* argument.

The *flags* argument modifies the interpretation of *pattern* and *string*. The value of *flags* is the bitwise inclusive OR of any of the following constants, which are defined in the include file *<fnmatch.h>*.

FNM_NOESCAPE   Normally, every occurrence of a backslash ('\') followed by a character in *pattern* is replaced by that character. This is done to negate any special meaning for the character. If the FNM_NOESCAPE flag is set, a backslash character is treated as an ordinary character.

FNM_PATHNAME   Slash characters in *string* must be explicitly matched by slashes in *pattern*. If this flag is not set, then slashes are treated as regular characters.

FNM_PERIOD   Leading periods in *string* must be explicitly matched by periods in *pattern*. If this flag is not set, then leading periods are treated as regular characters. The definition of "leading" is related to the specification of FNM_PATHNAME. A period is always "leading" if it is the first character in *string*. Additionally, if FNM_PATHNAME is set, a period is leading if it immediately follows a slash.

FNM_LEADING_DIR
                Ignore "/*" rest after successful *pattern* matching.

FNM_CASEFOLD   Ignore case distinctions in both the *pattern* and the *string*.

RETURN VALUES

The **fnmatch**() function returns zero if *string* matches the pattern specified by *pattern*, otherwise, it

returns the value FNM_NOMATCH.

SEE ALSO

sh(1), glob(3), regex(3)

STANDARDS

The current implementation of the **fnmatch**() function *does not* conform to IEEE Std 1003.2 ("POSIX.2"). Collating symbol expressions, equivalence class expressions and character class expressions are not supported.

HISTORY

A predecessor to **fnmatch**(), **gmatch**(), first appeared in the Programmer's Workbench (PWB/UNIX). The **fnmatch**() function first appeared in 4.4BSD.

BUGS

The pattern '*' matches the empty string, even if FNM_PATHNAME is specified.