`glob.h` - Man Page

pathname pattern-matching types

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 <glob.h>

Description

The *<glob.h>* header shall define the structures and symbolic constants
used by the *glob*() function.

The *<glob.h>* header shall define the **glob_t** structure type, which shall
include at least the following members:

```
size_t    gl_pathc Count of paths matched by pattern.
char    **gl_pathv Pointer to a list of matched pathnames.
size_t    gl_offs  Slots to reserve at the beginning of gl_pathv.
```

The *<glob.h>* header shall define the **size_t** type as described in
<sys/types.h>.

The *<glob.h>* header shall define the following symbolic constants as
values for the *flags* argument:

GLOB_APPEND

    Append generated pathnames to those previously obtained.

GLOB_DOOFFS

    Specify how many null pointers to add to the beginning of *gl_pathv*.

GLOB_ERR

    Cause *glob*() to return on error.

GLOB_MARK

    Each pathname that is a directory that matches *pattern* has a <slash>
    appended.

GLOB_NOCHECK

    If *pattern* does not match any pathname, then return a list consisting of
    only *pattern*.

GLOB_NOESCAPE

glob.h - Man Page

Do not sort the pathnames returned.

The *<glob.h>* header shall define the following symbolic constants as error return values:

GLOB_ABORTED

The scan was stopped because GLOB_ERR was set or (*errfunc*)() returned non-zero.

GLOB_NOMATCH

The pattern does not match any existing pathname, and GLOB_NOCHECK was not set in *flags*.

GLOB_NOSPACE

An attempt to allocate memory failed.

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

```
int  glob(const char *restrict, int, int(*)(const char *, int),
         glob_t *restrict);
void globfree(glob_t *);
```

The following sections are informative.

Application Usage

None.

Rationale

None.

Future Directions

None.

See Also

<sys_types.h>

The System Interfaces volume of POSIX.1‐2017, glob()

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glob.h - Man Page

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Referenced By

glob(3p).

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glob.h - Man Page