NAME

dirfd - get directory stream file descriptor

SYNOPSIS

```
#include <sys/types.h>
#include <dirent.h>
int dirfd(DIR *dirp);
```

Feature Test Macro Requirements for glibc (see **feature test macros**(7)):

```
dirfd():
```

```
/* Since glibc 2.10: */_POSIX_C_SOURCE >= 200809L || /* Glibc versions <= 2.19: */_BSD_SOURCE || _SVID_SOURCE
```

DESCRIPTION

The function dirfd() returns the file descriptor associated with the directory stream dirp.

This file descriptor is the one used internally by the directory stream. As a result, it is useful only for functions which do not depend on or alter the file position, such as **fstat**(2) and **fchdir**(2). It will be automatically closed when **closedir**(3) is called.

RETURN VALUE

On success, a nonnegative file descriptor is returned. On error, -1 is returned, and *errno* is set to indicate the cause of the error.

ERRORS

POSIX.1-2008 specifies two errors, neither of which is returned by the current implementation.

EINVAL

dirp does not refer to a valid directory stream.

ENOTSUP

The implementation does not support the association of a file descriptor with a directory.

ATTRIBUTES

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

Interface	Attribute	Value
dirfd()	Thread safety	MT-Safe

CONFORMING TO

POSIX.1-2008. This function was a BSD extension, present in 4.3BSD-Reno, not in 4.2BSD.

SEE ALSO

```
open(2), closedir(3), opendir(3), readdir(3), rewinddir(3), scandir(3), seekdir(3), telldir(3)\\
```

COLOPHON

This page is part of release 5.05 of the Linux *man-pages* project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at https://www.kernel.org/doc/man-pages/.

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