



Rocky Enterprise Linux 9.2 Manual Pages on command 'dirfd.3'

C:\>man dirfd.3

DIRFD(3) Linux Programmer's Manual DIRFD(3)

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).

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?Interface ? Attribute ? Value ?

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?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/>.