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

#### **\$ 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, `dirfd()` returns a file descriptor (a nonnegative integer).

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

## COLOPHON

This page is part of release 5.10 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/>.