



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

**C:\>man opendir.3**

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

### NAME

opendir, fdopendir - open a directory

### SYNOPSIS

```
#include <sys/types.h>
```

```
#include <dirent.h>
```

```
DIR *opendir(const char *name);
```

```
DIR *fdopendir(int fd);
```

Feature Test Macro Requirements for glibc (see `feature_test_macros(7)`):

`fdopendir()`:

Since glibc 2.10:

```
  _POSIX_C_SOURCE >= 200809L
```

Before glibc 2.10:

```
  _GNU_SOURCE
```

### DESCRIPTION

The `opendir()` function opens a directory stream corresponding to the directory name, and returns a pointer to the directory stream. The stream is positioned at the first entry in the directory.

The `fdopendir()` function is like `opendir()`, but returns a directory stream for the directory referred to by the open file descriptor `fd`. After a successful call to `fdopendir()`, `fd` is used internally by the implementation, and should not otherwise be used by the application.

## RETURN VALUE

The `opendir()` and `fdopendir()` functions return a pointer to the directory stream.

On error, `NULL` is returned, and `errno` is set appropriately.

## ERRORS

`EACCES` Permission denied.

`EBADF` `fd` is not a valid file descriptor opened for reading.

`EMFILE` The per-process limit on the number of open file descriptors has been reached.

`ENFILE` The system-wide limit on the total number of open files has been reached.

`ENOENT` Directory does not exist, or name is an empty string.

`ENOMEM` Insufficient memory to complete the operation.

`ENOTDIR`

name is not a directory.

## VERSIONS

`fdopendir()` is available in `glibc` since version 2.4.

## ATTRIBUTES

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

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?Interface        ? Attribute    ? Value    ?

??

?`opendir()`, `fdopendir()` ? Thread safety ? MT-Safe ?

??

## CONFORMING TO

`opendir()` is present on `SVr4`, `4.3BSD`, and specified in `POSIX.1-2001`. `fdopendir()` is specified in `POSIX.1-2008`.

## NOTES

Filename entries can be read from a directory stream using `readdir(3)`.

The underlying file descriptor of the directory stream can be obtained using `dirfd(3)`.

The `opendir()` function sets the close-on-exec flag for the file descriptor underlying the `DIR *`. The `fdopendir()` function leaves the setting of the close-on-exec flag unchanged for the file descriptor, `fd`. `POSIX.1-200x` leaves it unspecified whether a successful call to `fdopendir()` will set the close-on-exec flag for the

file descriptor, fd.

#### SEE ALSO

open(2), closedir(3), dirfd(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/>.

GNU

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