NAME

dirfd - get directory stream file descriptor

SYNOPSIS

DESCRIPTION

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

This 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

```
Multithreading (see pthreads(7))
```

The **dirfd**() function is thread-safe.

CONFORMING TO

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

NOTES

The prototype for dirfd() is available only if _BSD_SOURCE or _SVID_SOURCE is defined.

SEE ALSO

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

COLOPHON

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