NAME

fchmodat - change permissions of a file relative to a directory file descriptor

SYNOPSIS

```
#define _ATFILE_SOURCE
#include <fcntl.h> /* Definition of AT_* constants */
#include <sys/stat.h>
```

int fchmodat(int dirfd, const char * pathname, mode_t mode, int flags);

DESCRIPTION

The **fchmodat**() system call operates in exactly the same way as **chmod**(2), except for the differences described in this manual page.

If the pathname given in *pathname* is relative, then it is interpreted relative to the directory referred to by the file descriptor dirfd (rather than relative to the current working directory of the calling process, as is done by **chmod**(2) for a relative pathname).

If *pathname* is relative and *dirfd* is the special value **AT_FDCWD**, then *pathname* is interpreted relative to the current working directory of the calling process (like **chmod**(2)).

If *pathname* is absolute, then *dirfd* is ignored.

flags can either be 0, or include the following flag:

AT SYMLINK NOFOLLOW

If *pathname* is a symbolic link, do not dereference it: instead operate on the link itself. This flag is not currently implemented.

RETURN VALUE

On success, **fchmodat**() returns 0. On error, -1 is returned and *errno* is set to indicate the error.

ERRORS

The same errors that occur for $\mathbf{chmod}(2)$ can also occur for $\mathbf{fchmodat}()$. The following additional errors can occur for $\mathbf{fchmodat}()$:

EBADF

dirfd is not a valid file descriptor.

EINVAL

Invalid flag specified in flags.

ENOTDIR

pathname is relative and dirfd is a file descriptor referring to a file other than a directory.

ENOTSUP

flags specified AT_SYMLINK_NOFOLLOW, which is not supported.

VERSIONS

fchmodat() was added to Linux in kernel 2.6.16.

CONFORMING TO

POSIX.1-2008.

NOTES

See openat(2) for an explanation of the need for fchmodat().

SEE ALSO

chmod(2), openat(2), path_resolution(7), symlink(7)

COLOPHON

This page is part of release 3.22 of the Linux *man-pages* project. A description of the project, and information about reporting bugs, can be found at http://www.kernel.org/doc/man-pages/.