NAME

fstatat – get file status relative to a directory file descriptor

SYNOPSIS

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

int fstatat(int *dirfd*, **const char ****pathname*, **struct stat ****buf* ,
int *flags***);**

DESCRIPTION

The **fstatat**() system call operates in exactly the same way as **stat**(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 **stat**(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 **stat**(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 return information about the link itself, like **lstat**(2). (By default, **fstatat**() dereferences symbolic links, like **stat**(2).)

RETURN VALUE

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

ERRORS

The same errors that occur for **stat**(2) can also occur for **fstatat**(). The following additional errors can occur for **fstatat**():

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.

VERSIONS

fstatat() was added to Linux in kernel 2.6.16.

CONFORMING TO

POSIX.1-2008. A similar system call exists on Solaris.

NOTES

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

SEE ALSO

openat(2), **stat**(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/.