

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/>.