#### **NAME**

faccessat - check user's permissions of a file relative to a directory file descriptor

#### **SYNOPSIS**

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

int faccessat(int dirfd, const char \* pathname, int mode, int flags);

## **DESCRIPTION**

The **faccessat**() system call operates in exactly the same way as **access**(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 **access**(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 **access**(2)).

If pathname is absolute, then dirfd is ignored.

*flags* is constructed by ORing together zero or more of the following values:

#### AT EACCESS

Perform access checks using the effective user and group IDs. By default, **faccessat**() uses the real IDs (like **access**(2)).

## AT\_SYMLINK\_NOFOLLOW

If *pathname* is a symbolic link, do not dereference it: instead return information about the link itself.

## **RETURN VALUE**

On success, (all requested permissions granted) **faccessat**() returns 0. On error, -1 is returned and *errno* is set to indicate the error.

#### **ERRORS**

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

### **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**

faccessat() 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 **faccessat**().

### Glibc Notes

The AT\_EACCESS and AT\_SYMLINK\_NOFOLLOW flags are actually implemented within the glibc wrapper function for **faccessat**(). If either of these flags are specified, then the wrapper function employs

**fstatat**(2) to determine access permissions.

# **SEE ALSO**

 $access(2), openat(2), euidaccess(3), credentials(7), path\_resolution(7), symlink(7)\\$ 

# **COLOPHON**

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