

fdatasync - Man Page

synchronize the data of a file (REALTIME)

Prolog

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

Synopsis

```
#include <unistd.h>
```

```
int fdatasync(int fildes);
```

Description

The *fdatasync()* function shall force all currently queued I/O operations associated with the file indicated by file descriptor to the synchronized I/O completion state.

The functionality shall be equivalent to *fsync()* with the symbol `_POSIX_SYNCHRONIZED_IO` defined, with the exception that all I/O operations shall be completed as defined for synchronized I/O data integrity completion.

Return Value

If successful, the *fdatasync()* function shall return the value 0; otherwise, the function shall return the value -1 and set *errno* to indicate the error. If the *fdatasync()* function fails, outstanding I/O operations are not guaranteed to have been completed.

Errors

The *fdatasync()* function shall fail if:

EBADF

The *fildes* argument is not a valid file descriptor.

EINVAL

This implementation does not support synchronized I/O for this file.

In the event that any of the queued I/O operations fail, *fdatasync()* shall return the error conditions defined for *read()* and *write()*.

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Examples

None.

Application Usage

Note that even if the file descriptor is not open for writing, if there are any pending write requests on the underlying file, then that I/O will be completed prior to the return of *fdatasync()*.

Rationale

None.

Future Directions

None.

See Also

`aio_fsync()`, `fcntl()`, `fsync()`, `open()`, `read()`, `write()`

The Base Definitions volume of POSIX.1-2017, `<unistd.h>`

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Referenced By

`aio_fsync(3p)`, `unistd.h(0p)`.

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