NAME

aio_cancel - cancel an outstanding asynchronous I/O request

SYNOPSIS

#include <aio.h>

int aio cancel(int fd, struct aiocb *aiocbp);

Link with -lrt.

DESCRIPTION

The **aio_cancel**() function attempts to cancel outstanding asynchronous I/O requests for the file descriptor fd. If aiocbp is NULL, all such requests are canceled. Otherwise, only the request described by the control block pointed to by aiocbp is canceled. (See **aio**(7) for a description of the aiocb structure.)

Normal asynchronous notification occurs for canceled requests (see **aio**(7) and **sigevent**(7)). The request return status (**aio_return**(3)) is set to -1, and the request error status (**aio_error**(3)) is set to **ECAN-CELED**. The control block of requests that cannot be canceled is not changed.

If the request could not be canceled, then it will terminate in the usual way after performing the I/O operation. (In this case, aio_error(3) will return the status EINPROGRESSS.)

If *aiocbp* is not NULL, and *fd* differs from the file descriptor with which the asynchronous operation was initiated, unspecified results occur.

Which operations are cancelable is implementation-defined.

RETURN VALUE

The **aio_cancel**() function returns one of the following values:

AIO_CANCELED

All requests were successfully canceled.

AIO_NOTCANCELED

At least one of the requests specified was not canceled because it was in progress. In this case, one may check the status of individual requests using **aio_error**(3).

AIO ALLDONE

All requests had already been completed before the call.

-1 An error occurred. The cause of the error can be found by inspecting *errno*.

ERRORS

EBADF

fd is not a valid file descriptor.

ENOSYS

aio_cancel() is not implemented.

VERSIONS

The **aio_cancel**() function is available since glibc 2.1.

ATTRIBUTES

For an explanation of the terms used in this section, see **attributes**(7).

Interface	Attribute	Value
aio_cancel()	Thread safety	MT-Safe

CONFORMING TO

POSIX.1-2001, POSIX.1-2008.

EXAMPLE

See aio(7).

SEE ALSO

 $\label{eq:aio_error} \textbf{aio_error}(3), \ \ \textbf{aio_fsync}(3), \ \ \textbf{aio_read}(3), \ \ \textbf{aio_return}(3), \ \ \textbf{aio_suspend}(3), \ \ \textbf{aio_write}(3), \ \ \textbf{lio_listio}(3), \\ \textbf{aio}(7)$

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COLOPHON

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