



Rocky Enterprise Linux 9.2 Manual Pages on command 'aio_cancel.3'

\$ man aio_cancel.3

AIO_CANCEL(3) Linux Programmer's Manual AIO_CANCEL(3)

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 `ECANCELED`. 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 `EINPROGRESS`.)

If `aio_cbp` 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)`.

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?Interface ? Attribute ? Value ?

????????????????????????????????????

?`aio_cancel()` ? Thread safety ? MT-Safe ?

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CONFORMING TO

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

EXAMPLES

See aio(7).

SEE ALSO

aio_error(3), aio_fsync(3), aio_read(3), aio_return(3), aio_suspend(3),
aio_write(3), lio_listio(3), aio(7)

COLOPHON

This page is part of release 5.10 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at <https://www.kernel.org/doc/man-pages/>.

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