## NAME

io_cancel - cancel an outstanding asynchronous I/O operation

## SYNOPSIS

**#include <linux/aio_abi.h>** /* Defines needed types */

**int io_cancel(aio_context_t** *ctx_id*, **struct iocb ***_iocb_,
**struct io_event ***_result_**);**

*Note*: There is no glibc wrapper for this system call; see NOTES.

## DESCRIPTION

The **io_cancel**() system call attempts to cancel an asynchronous I/O operation previously submitted with io_submit(2). The*io cb* argument describes the operation to be canceled and the *ctx_id* argument is the AIO context to which the operation was submitted. If the operation is successfully canceled, the event will be copied into the memory pointed to by *result* without being placed into the completion queue.

## RETURN VALUE

On success, **io_cancel**() returns 0. For the failure return, see NOTES.

## ERRORS

**EAGAIN**
The *iocb* specified was not canceled.

**EFAULT**
One of the data structures points to invalid data.

**EINVAL**
The AIO context specified by *ctx_id* is invalid.

**ENOSYS**
**io_cancel**() is not implemented on this architecture.

## VERSIONS

The asynchronous I/O system calls first appeared in Linux 2.5.

## CONFORMING TO

**io_cancel**() is Linux-specific and should not be used in programs that are intended to be portable.

## NOTES

Glibc does not provide a wrapper function for this system call. You could invoke it using syscall(2). But instead, you probably want to use the **io_cancel**() wrapper function provided by *libaio*.

Note that the *libaio* wrapper function uses a different type (*io_context_t*) for the *ctx_id* argument. Note also that the *libaio* wrapper does not follow the usual C library conventions for indicating errors: on error it returns a negated error number (the negative of one of the values listed in ERRORS). If the system call is invoked via syscall(2), then the return value follows the usual conventions for indicating an error: -1, with *errno* set to a (positive) value that indicates the error.

## SEE ALSO

io_destroy(2), io_getevents(2), io_setup(2), io_submit(2), aio(7)

## COLOPHON

This page is part of release 3.74 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 http://www.kernel.org/doc/man-pages/.