



Linux Ubuntu 26.04 Manual Pages on command 'aio_write.3'

\$ man aio_write.3

aio_write(3) Library Functions Manual aio_write(3)

NAME

aio_write - asynchronous write

LIBRARY

Real-time library (librt, -lrt)

SYNOPSIS

```
#include <aio.h>

int aio_write(struct aiocb *aiocbp);
```

DESCRIPTION

The `aio_write()` function queues the I/O request described by the buffer pointed to by `aiocbp`. This function is the asynchronous analog of `write(2)`. The arguments of the call `write(fd, buf, count)`

correspond (in order) to the fields `aio_fildes`, `aio_buf`, and `aio_nbytes` of the structure pointed to by `aiocbp`. (See `aio(7)` for a description of the `aiocb` structure.)

If `O_APPEND` is not set, the data is written starting at the absolute position `aiocbp->aio_offset`, regardless of the file offset. If `O_APPEND` is set, data is written at the end of the file in the same order as `aio_write()` calls are made. After the call, the value of the file offset is unspecified.

The "asynchronous" means that this call returns as soon as the request has been enqueued; the write may or may not have completed when the call returns. One tests for completion using `aio_error(3)`. The return status of a completed I/O operation can be obtained using `aio_return(3)`. Asynchronous notification of I/O completion can be obtained by setting `aiocbp->aio_sigevent` appropriately; see `sigevent(3type)` for details.

Simultaneous I/O operations specifying the same aiocb structure produce undefined results.

SEE ALSO

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

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