

NAME

aio_waitcomplete - wait for the next completion of an aio request

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

```
#include <aio.h>
```

ssize_t

```
aio_waitcomplete(struct aiocb **iocbp, struct timespec *timeout);
```

DESCRIPTION

The **aio_waitcomplete**() system call waits for completion of an asynchronous I/O request. Upon completion, **aio_waitcomplete**() returns the result of the function and sets *iocbp* to point to the structure associated with the original request. If an asynchronous I/O request is completed before **aio_waitcomplete**() is called, it returns immediately with the completed request.

If *timeout* is a non-NULL pointer, it specifies a maximum interval to wait for a asynchronous I/O request to complete. If *timeout* is a NULL pointer, **aio_waitcomplete**() waits indefinitely. To effect a poll, the *timeout* argument should be non-NULL, pointing to a zero-valued timeval structure.

The **aio_waitcomplete**() system call also serves the function of **aio_return**(), thus **aio_return**() should not be called for the control block returned in *iocbp*.

RETURN VALUES

If an asynchronous I/O request has completed, *iocbp* is set to point to the control block passed with the original request, and the status is returned as described in **read**(2), **write**(2), or **fsync**(2). On failure, **aio_waitcomplete**() returns -1, sets *iocbp* to NULL and sets *errno* to indicate the error condition.

ERRORS

The **aio_waitcomplete**() system call fails if:

- | | |
|----------|---|
| [EINVAL] | The specified time limit is invalid. |
| [EAGAIN] | The process has not yet called aio_read () or aio_write (). |
| [EINTR] | A signal was delivered before the timeout expired and before any asynchronous I/O requests completed. |

[EWOULDBLOCK]

[EINPROGRESS] The specified time limit expired before any asynchronous I/O requests completed.

SEE ALSO

`aio_cancel(2)`, `aio_error(2)`, `aio_read(2)`, `aio_return(2)`, `aio_suspend(2)`, `aio_write(2)`, `fsync(2)`, `read(2)`, `write(2)`, `aio(4)`

STANDARDS

The `aio_waitcomplete()` system call is a FreeBSD-specific extension.

HISTORY

The `aio_waitcomplete()` system call first appeared in FreeBSD 4.0.

AUTHORS

The `aio_waitcomplete()` system call and this manual page were written by Christopher M Sedore <cmsedore@maxwell.syr.edu>.