# AIO\_SUSPEND(3)

AIO\_SUSPEND(3) Linux Programmer's Manual AIO\_SUSPEND(3)

# NAME

aio\_suspend - wait for asynchronous I/O operation or timeout

# **SYNOPSIS**

## **DESCRIPTION**

The **aio\_suspend**() function suspends the calling thread until one of the following occurs:

- \* One or more of the asynchronous I/O requests in the list  $\underline{aiocb\_list}$  has completed.
- \* A signal is delivered.
- \* <u>timeout</u> is not NULL and the specified time interval has passed. (For details of the <u>timespec</u> structure, see **nanosleep**(2).)

The <u>nitems</u> argument specifies the number of items in <u>aiocb\_list</u>. Each item in the list pointed to by <u>aiocb\_list</u> must be either NULL (and then is ignored), or a pointer to a control block on which I/O was initiated using **aio\_read**(3), **aio\_write**(3), or **lio\_listio**(3). (See **aio**(7) for a description of the <u>aiocb</u> structure.)

If **CLOCK\_MONOTONIC** is supported, this clock is used to measure the timeout interval (see **clock\_gettime**(3)).

### RETURN VALUE

If this function returns after completion of one of the I/O requests specified in aiocb\_list, 0 is returned. Otherwise, -1 is returned, and errno is set to indicate the error.

#### **ERRORS**

**EAGAIN** The call timed out before any of the indicated operations had completed.

**EINTR** The call was ended by signal (possibly the completion signal of one of the operations we were waiting for); see **signal**(7).

**ENOSYS** aio\_suspend() is not implemented.

#### **VERSIONS**

The **aio\_suspend()** function is available since glibc 2.1.

#### CONFORMING TO

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

#### **NOTES**

One can achieve polling by using a non-NULL  $\underline{\text{timeout}}$  that specifies a zero time interval.

If one or more of the asynchronous I/O operations specified in <u>aiocb\_list</u> has already completed at the time of the call to <u>aio\_suspend()</u>, then the call returns immediately.

To determine which I/O operations have completed after a successful return from **aio\_suspend()**, use **aio\_error(3)** to scan the list of <u>aiocb</u> structures pointed to by aiocb—list.

## SEE ALSO

 $\label{linear} \begin{array}{lll} \textbf{aio\_cancel}(3),\, \textbf{aio\_error}(3),\, \textbf{aio\_fsync}(3),\, \textbf{aio\_read}(3),\, \textbf{aio\_return}(3),\\ \textbf{aio\_write}(3),\, \textbf{lio\_listio}(3),\, \textbf{aio}(7),\, \textbf{time}(7) \end{array}$ 

# **COLOPHON**

This page is part of release 3.54 of the Linux man-pages project. A description of the project, and information about reporting bugs, can be found at http://www.kernel.org/doc/man-pages/.

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