NAME

aio_suspend - wait for asynchronous I/O operation or timeout

SYNOPSIS

#include <aio.h>

int aio_suspend(const struct aiocb * const *aiocb_list*[]**,**
 int *nitems***, const struct timespec *** *timeout*)**;**

Link with *-lrt*.

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 *aiocb_list* has completed.

* A signal is delivered.

* *timeout* is not NULL and the specified time interval has passed. (For details of the *timespec* structure, see nanosleep(2).)

The *nitems* argument specifies the number of items in *aiocb_list*. Each item in the list pointed to by *aiocb_list* 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 *aiocb* 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 *timeout* that specifies a zero time interval.

If one or more of the asynchronous I/O operations specified in *aiocb_list* has already completed at the time of the call to **aio_suspend**(), 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 *aiocb* structures pointed to by *aiocb_list*.

SEE ALSO

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

COLOPHON

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http://www.kernel.org/doc/man-pages/.