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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'aio\_suspend.3'***

***\$ man 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

```
#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 `aioread(3)`, `aiowrite(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** `aiosuspend()` is not implemented.

## VERSIONS

The `aiosuspend()` function is available since glibc 2.1.

## ATTRIBUTES

For an explanation of the terms used in this section, see `attributes(7)`.

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?Interface ? Attribute ? Value ?

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?`aiosuspend()` ? Thread safety ? MT-Safe ?

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## 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 `aiosuspend()`, then the call returns immediately.

To determine which I/O operations have completed after a successful re? turn from `aio_suspend()`, use `aio_error(3)` to scan the list of `aio_cb` structures pointed to by `aio_cb_list`.

## BUGS

The `glibc` implementation of `aio_suspend()` is not `async-signal-safe`, in violation of the requirements of `POSIX.1`.

## 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

This page is part of release 5.10 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 <https://www.kernel.org/doc/man-pages/>.

2017-09-15

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