

**NAME**

`aiio_suspend` - wait for asynchronous I/O operation or timeout

**SYNOPSIS**

```
#include <aiio.h>
```

```
int aiio_suspend(const struct aiioob * const aiioob_list[],
                int nitems, const struct timespec *timeout);
```

Link with `-lrt`.

**DESCRIPTION**

The `aiio_suspend()` function suspends the calling thread until one of the following occurs:

- \* One or more of the asynchronous I/O requests in the list `aiioob_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 `aiioob_list`. Each item in the list pointed to by `aiioob_list` must be either NULL (and then is ignored), or a pointer to a control block on which I/O was initiated using [aiio\\_read\(3\)](#), [aiio\\_write\(3\)](#), or [lio\\_listio\(3\)](#). (See [aiio\(7\)](#) for a description of the `aiioob` 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 `aiioob_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**

`aiio_suspend()` is not implemented.

**VERSIONS**

The `aiio_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 `aiioob_list` has already completed at the time of the call to `aiio_suspend()`, then the call returns immediately.

To determine which I/O operations have completed after a successful return from `aiio_suspend()`, use [aiio\\_error\(3\)](#) to scan the list of `aiioob` structures pointed to by `aiioob_list`.

**SEE ALSO**

[aiio\\_cancel\(3\)](#), [aiio\\_error\(3\)](#), [aiio\\_fsync\(3\)](#), [aiio\\_read\(3\)](#), [aiio\\_return\(3\)](#), [aiio\\_write\(3\)](#), [lio\\_listio\(3\)](#), [aiio\(7\)](#), [time\(7\)](#)

**COLOPHON**

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