NAME
thrd_join - detach thread

SYNOPSIS
library "threads"
#include <threads.h>

int
thrd_join(*thrd_t thrd*, *int *res*);

DESCRIPTION
The function **thrd_join**() will suspend the execution of the current thread and will wait for the given thread *thrd* to finish executing. The exit status of the given thread as set by thrd_exit(3) can then be retrieved by the *res* argument if it is not NULL.

The given thread must not have been detached by thrd_detach(3) and must be a member of the current process.

If the given thread has already been terminated and **thrd_join**() has not yet been called for the given thread before, the exit status can be retrieved without the function blocking.

If multiple threads call **thrd_join**() for the same thread they all will wait for execution of the given thread, however only one of the threads will retrieve the exit status.

RETURN VALUES
The function **thrd_join**() returns *thrd_success* on success. If the *res* argument is not NULL it will populate the integer pointed to by the argument with the exit status of the joining thread. In case of an error *thrd_error* if an error has occurred.

SEE ALSO
thrd_create(3) thrd_exit(3) thrd_yield(3) thrd_equal(3) thrd_detach(3) thrd_current(3) thrd_sleep(3)

HISTORY
The **thrd_join**() function first appeared in the C11 standard ISO/IEC 9899:2011.

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