cnd timedwait(3)

NAME

cnd timedwait - wait for a condition with timeout

SYNOPSIS

cnd timedwait(3)

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

int
cnd_timedwait(cnd_t *cnd, mtx_t mtx, const struct timespec *ts);
```

DESCRIPTION

The function **cnd_timedwait**() will stall the calling thread until a condition is being send to *cnd* from an other thread using either of cnd_signal(3) or cnd_broadcast(3) for up to a given absolute time specified by *ts* (based on CLOCK_REALTIME) after which it will give up and continue execution. The function will release the mutex *mtx* atomically and hold it once the thread resumes execution.

A thread waiting with **cnd_timedwait()** may be woken up by signals.

RETURN VALUES

Upon success **cnd_timedwait**() returns *thrd_success*, if a timeout occurred *thrd_timedout* will be returned. On an error *thrd_error* will be returned.

SEE ALSO

```
cnd_init(3) cnd_destroy(3) cnd_broadcast(3) cnd_timedwait(3) cnd_wait(3) mtx_init(3)
```

HISTORY

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

AUTHORS

Jan Adelsbach < jan@jadelsbach.de>