NAME
pthread_cond_wait - wait on a condition variable

LIBRARY
POSIX Threads Library (libpthread, -lpthread)

SYNOPSIS
#include <pthread.h>

int
pthread_cond_wait(*pthread_cond_t *restrict cond*, *pthread_mutex_t *restrict mutex*);

DESCRIPTION
The **pthread_cond_wait**() function atomically blocks the current thread waiting on the condition variable specified by *cond*, and releases the mutex specified by *mutex*. The waiting thread unblocks only after another thread calls pthread_cond_signal(3), or pthread_cond_broadcast(3) with the same condition variable, and the current thread reacquires the lock on *mutex*.

RETURN VALUES
If successful, the **pthread_cond_wait**() function will return zero. Otherwise an error number will be returned to indicate the error.

ERRORS
The **pthread_cond_wait**() function will fail if:

[EINVAL]   The value specified by *cond* or the value specified by *mutex* is invalid.

[EPERM]   The specified *mutex* was not locked by the calling thread.

[EOWNERDEAD]   The argument *mutex* points to a robust mutex and the process containing the previous owning thread terminated while holding the mutex lock. The lock was granted to the caller and it is up to the new owner to make the state consistent.

[ENOTRECOVERABLE]
                The state protected by the *mutex* is not recoverable.

SEE ALSO
pthread_cond_broadcast(3), pthread_cond_destroy(3), pthread_cond_init(3), pthread_cond_signal(3), pthread_cond_timedwait(3), pthread_mutex_consistent(3)

STANDARDS

The **pthread_cond_wait**() function conforms to ISO/IEC 9945-1:1996 ("POSIX.1").