

NAME

pthread_mutex_init - create a mutex

LIBRARY

POSIX Threads Library (libpthread, -lpthread)

SYNOPSIS

```
#include <pthread.h>
```

int

```
pthread_mutex_init(pthread_mutex_t *restrict mutex, const pthread_mutexattr_t *restrict attr);
```

DESCRIPTION

The **pthread_mutex_init**() function creates a new mutex, with attributes specified with *attr*. If *attr* is NULL the default attributes are used.

RETURN VALUES

If successful, **pthread_mutex_init**() will return zero and put the new mutex id into *mutex*, otherwise an error number will be returned to indicate the error.

ERRORS

The **pthread_mutex_init**() function will fail if:

[EINVAL] The value specified by *attr* is invalid.

[ENOMEM] The process cannot allocate enough memory to create another mutex.

SEE ALSO

pthread_mutex_destroy(3), pthread_mutex_lock(3), pthread_mutex_trylock(3),
pthread_mutex_unlock(3), pthread_mutexattr(3)

STANDARDS

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