NAME

sem_post − unlock a semaphore

LIBRARY

POSIX threads library (*libpthread*, *−lpthread*)

SYNOPSIS

#include <semaphore.h>

int sem_post(sem_t *****sem*);**

DESCRIPTION

sem_post() increments (unlocks) the semaphore pointed to by *sem*. If the semaphore's value consequently becomes greater than zero, then another process or thread blocked in a **sem_wait**(3) call will be woken up and proceed to lock the semaphore.

RETURN VALUE

sem_post() returns 0 on success; on error, the value of the semaphore is left unchanged, −1 is returned, and *errno* is set to indicate the error.

ERRORS

EINVAL

sem is not a valid semaphore.

EOVERFLOW

The maximum allowable value for a semaphore would be exceeded.

ATTRIBUTES

For an explanation of the terms used in this section, see **attributes**(7).

Interface	Attribute	Value
sem_post()	Thread safety	MT-Safe

STANDARDS

POSIX.1-2001.

NOTES

sem_post() is async-signal-safe: it may be safely called within a signal handler.

EXAMPLES

See **sem_wait**(3) and **shm_open**(3).

SEE ALSO

sem_getvalue(3), **sem_wait**(3), **sem_overview**(7), **signal−safety**(7)