NAME

sem_destroy - destroy an unnamed semaphore

SYNOPSIS

#include <semaphore.h>

int sem_destroy(sem_t *sem);

Link with -pthread.

DESCRIPTION

sem_destroy() destroys the unnamed semaphore at the address pointed to by sem.

Only a semaphore that has been initialized by **sem_init**(3) should be destroyed using **sem_destroy**().

Destroying a semaphore that other processes or threads are currently blocked on (in **sem_wait**(3)) produces undefined behavior.

Using a semaphore that has been destroyed produces undefined results, until the semaphore has been reinitialized using **sem_init**(3).

RETURN VALUE

sem_destroy() returns 0 on success; on error, -1 is returned, and *errno* is set to indicate the error.

ERRORS

EINVAL

sem is not a valid semaphore.

ATTRIBUTES

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

Interface	Attribute	Value
sem_destroy()	Thread safety	MT-Safe

CONFORMING TO

POSIX.1-2001, POSIX.1-2008.

NOTES

An unnamed semaphore should be destroyed with **sem_destroy**() before the memory in which it is located is deallocated. Failure to do this can result in resource leaks on some implementations.

SEE ALSO

sem_init(3), sem_post(3), sem_wait(3), sem_overview(7)

COLOPHON

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