



## ***Rocky Enterprise Linux 9.2 Manual Pages on command 'sem\_destroy.3'***

**C:\>man sem\_destroy.3**

SEM\_DESTROY(3)                   Linux Programmer's Manual                   SEM\_DESTROY(3)

### 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).

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?Interface ? Attribute ? Value ?

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?sem\_destroy() ? Thread safety ? MT-Safe ?

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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

This page is part of release 5.05 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at <https://www.kernel.org/doc/man-pages/>.