



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

C:\>man sem\_post.3

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

### NAME

sem\_post - unlock a semaphore

### SYNOPSIS

```
#include <semaphore.h>
```

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

Link with -pthread.

### 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.

E\_OVERFLOW

The maximum allowable value for a semaphore would be exceeded.

### 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\_post() ? Thread safety ? MT-Safe ?

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CONFORMING TO

POSIX.1-2001.

NOTES

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

EXAMPLE

See sem\_wait(3).

SEE ALSO

sem\_getvalue(3), sem\_wait(3), sem\_overview(7), signal-safety(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/>.