NAME

sem_getvalue - get the value of a semaphore

SYNOPSIS

#include <semaphore.h>

int sem_getvalue(sem_t *sem, int *sval);

Link with *-pthread*.

DESCRIPTION

sem_getvalue() places the current value of the semaphore pointed to *sem* into the integer pointed to by *sval*.

If one or more processes or threads are blocked waiting to lock the semaphore with sem_wait(3), POSIX.1 permits two possibilities for the value returned in *sval*: either 0 is returned; or a negative number whose absolute value is the count of the number of processes and threads currently blocked in sem_wait(3). Linux adopts the former behavior.

RETURN VALUE

sem_getvalue() 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_getvalue()	Thread safety	MT-Safe

CONFORMING TO

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

NOTES

The value of the semaphore may already have changed by the time **sem_getvalue**() returns.

SEE ALSO

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

COLOPHON

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