



Red Hat Enterprise Linux Release 9.2 Manual Pages on 'sem_getvalue.3p' command

\$ man sem_getvalue.3p

SEM_GETVALUE(3P) POSIX Programmer's Manual SEM_GETVALUE(3P)

PROLOG

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

NAME

sem_getvalue ? get the value of a semaphore

SYNOPSIS

```
#include <semaphore.h>

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

DESCRIPTION

The `sem_getvalue()` function shall update the location referenced by the `sval` argument to have the value of the semaphore referenced by `sem` without affecting the state of the semaphore. The updated value `repre?` sends an actual semaphore value that occurred at some unspecified time during the call, but it need not be the actual value of the semaphore when it is returned to the calling process.

If `sem` is locked, then the object to which `sval` points shall either be set to zero or to a negative number whose absolute value represents the number of processes waiting for the semaphore at some unspecified time during the call.

RETURN VALUE

Upon successful completion, the `sem_getvalue()` function shall return a value of zero. Otherwise, it shall return a value of -1 and set `errno` to indicate the error.

ERRORS

The `sem_getvalue()` function may fail if:

`EINVAL` The `sem` argument does not refer to a valid semaphore.

The following sections are informative.

EXAMPLES

None.

APPLICATION USAGE

None.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

`semctl()`, `semget()`, `semop()`, `sem_post()`, `sem_timedwait()`, `sem_trywait()`

The Base Definitions volume of POSIX.1-2017, `<semaphore.h>`

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