



Linux Ubuntu 26.04 Manual Pages on command 'sem_open.3'

\$ man sem_open.3

sem_open(3) Library Functions Manual sem_open(3)

NAME

sem_open - initialize and open a named semaphore

LIBRARY

POSIX threads library (libpthread, -lpthread)

SYNOPSIS

```
#include <fcntl.h>            /* For O_* constants */
#include <sys/stat.h>        /* For mode constants */
#include <semaphore.h>

sem_t *sem_open(const char *name, int oflag, ...
                 /* mode_t mode, unsigned int value */);
```

DESCRIPTION

sem_open() creates a new POSIX semaphore or opens an existing semaphore. The semaphore is identified by name. For details of the construction of name, see sem_overview(7).

The oflag argument specifies flags that control the operation of the call. (Definitions of the flags values can be obtained by including <fcntl.h>.) If O_CREAT is specified in oflag, then the semaphore is created if it does not already exist. The owner (user ID) of the semaphore is set to the effective user ID of the calling process. The group ownership (group ID) is set to the effective group ID of the calling process. If both O_CREAT and O_EXCL are specified in oflag, then an error is returned if a semaphore with the given name already exists.

If O_CREAT is specified in oflag, then two additional arguments must be supplied. The mode argument specifies the permissions to be placed on the new semaphore, as for open(2). (Sym?

RETURN VALUE

ERRORS

ENAMETOOLONG

ATTRIBUTES

[illegible]

STANDARDS

HISTORY

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SEE ALSO

[sem_close\(3\)](#), [sem_getvalue\(3\)](#), [sem_post\(3\)](#), [sem_unlink\(3\)](#), [sem_wait\(3\)](#), [sem_overview\(7\)](#)

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