

```

/*
 * #####
 * ## sema2.c
 * ## ~~~~~
 * ## 04.02.1995: Creation TL
 * ## 07.05.2018:
 * #####
 */

#include <stdio.h>
#include <stdlib.h>
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>

#include <unistd.h>

int main()
{
    int    semid, val, nsems, semnum, status;
    key_t  key;
    struct sembuf sops;
    size_t nsops;

    /* recuperation du groupe 3 constitue de 1 semaphore */

    key    = 3;
    nsems  = 1;

    semid  = semget(key, nsems, 0640 | IPC_CREAT);
    if ( semid == -1 ) {
        perror( " sema2> Pb. recuperation SEMAPHORE\n" ); exit( 1 );
    }

    nsops=( size_t ) nsems;
    sops.sem_num = 0;
    sops.sem_op  = 1; /* > 0 : donne un droit supplementaire*/
    sops.sem_flg = 0;

    status = semop( semid, &sops, nsops );
    if ( status == -1 ) {
        perror( " sema2> Pb. incrementation SEMAPHORE\n" ); exit(2);
    }

    semnum=0;
    val = semctl(semid, semnum, GETVAL, NULL);
    if ( val == -1 ) {
        perror( " sema2> Pb. recuperation valeur SEMAPHORE\n" );
    }

    printf( " sema2> Valeur du SEMAPHORE(3, 0) = %d\n", val );
    exit( 0 );
}
/* --- fin sema2.c --- */

```