

## NAME

IPC::SysV - System V IPC constants and system calls

## SYNOPSIS

```
use IPC::SysV qw(IPC_STAT IPC_PRIVATE);
```

## DESCRIPTION

IPC::SysV defines and conditionally exports all the constants defined in your system include files which are needed by the SysV IPC calls. Common ones include

```
IPC_CREATE IPC_EXCL IPC_NOWAIT IPC_PRIVATE IPC_RMID IPC_SET IPC_STAT
GETVAL SETVAL GETPID GETNCNT GETZCNT GETALL SETALL
SEM_A SEM_R SEM_UNDO
SHM_RDONLY SHM_RND SHMLBA
```

and auxiliary ones

```
S_IRUSR S_IWUSR S_IRWXU
S_IRGRP S_IWGRP S_IRWXG
S_IROTH S_IWOTH S_IRWXO
```

but your system might have more.

`ftok( PATH )`

`ftok( PATH, ID )`

Return a key based on PATH and ID, which can be used as a key for `msgget`, `semget` and `shmget`. See *ftok*.

If ID is omitted, it defaults to 1. If a single character is given for ID, the numeric value of that character is used.

`shmat( ID, ADDR, FLAG )`

Attach the shared memory segment identified by ID to the address space of the calling process. See *shmat*.

ADDR should be `undef` unless you really know what you're doing.

`shmdt( ADDR )`

Detach the shared memory segment located at the address specified by ADDR from the address space of the calling process. See *shmdt*.

`memread( ADDR, VAR, POS, SIZE )`

Reads SIZE bytes from a memory segment at ADDR starting at position POS. VAR must be a variable that will hold the data read. Returns true if successful, or false if there is an error. `memread()` taints the variable.

`memwrite( ADDR, STRING, POS, SIZE )`

Writes SIZE bytes from STRING to a memory segment at ADDR starting at position POS. If STRING is too long, only SIZE bytes are used; if STRING is too short, nulls are written to fill out SIZE bytes. Returns true if successful, or false if there is an error.

## SEE ALSO

*IPC::Msg*, *IPC::Semaphore*, *IPC::SharedMem*, *ftok*, *shmat*, *shmdt*

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