

Date : 20-11-21

FLAGS

- ✓ IPC_NOWAIT : Return immediately if no message of requested type is in the queue
- ✓ MSG_EXCEPT : This flag is useful if a process want to read a message with mtype greater than zero. In this case it will read a message except that type provided.

MSG-EXCEPT

Working messages

mtype	message
3	hi
5	hello
1	bj

Reading message

\$./a.out

~~3~~ ✓

Except a
message whose
type is 3

To use this flag define a macro

```
#define MSG_EXCEPT 020000
```

→

MSG1-NOERROR

To Truncate The message that longer than The
msgsz bytes

Note: Partial message reading is not allowed by message
queue.

→ If partial message reading is necessary then
use flag MSG1-NOERROR (after reading message
partially remaining message not available in the Queue)

MSGCTL() → (control operations)

→ When a message queue is created Kernel maintains information about message queue.

cmd:

IPC_STAT

① msgctl (fd, IPC_STAT, 8V);

printf ("-%d\n", v.msg-qbytes);

IPC-STAT This command will copy information from kernel datastructure to the structure msqid_ds

$$U.\text{msg}\cdot\text{qbytg} = 10,000$$

②

msgctl(fd, IPC_SET, &v);

↳ copy information from structure

msgfd_as into kernel data structure

③

How to Remove The message Queue?

✓①

msgctl(fd, IPC_RMID, 0);

is identified by using fd

↳ it will remove message queue which

② Using Ipcrm command

\$ ipcrm -q id ✓ }

\$ ipcrm -Q key ✓ ;