

NAME

IPC::Msg - SysV Msg IPC object class

SYNOPSIS

```
use IPC::SysV qw(IPC_PRIVATE S_IRUSR S_IWUSR);
use IPC::Msg;

$msg = IPC::Msg->new(IPC_PRIVATE, S_IRUSR | S_IWUSR);

$msg->snd($msgtype, $msgdata);

$msg->rcv($buf, 256);

$ds = $msg->stat;

$msg->remove;
```

DESCRIPTION

A class providing an object based interface to SysV IPC message queues.

METHODS

`new (KEY , FLAGS)`

Creates a new message queue associated with `KEY`. A new queue is created if

- `KEY` is equal to `IPC_PRIVATE`
- `KEY` does not already have a message queue associated with it, and `FLAGS` & `IPC_CREAT` is true.

On creation of a new message queue `FLAGS` is used to set the permissions. Be careful not to set any flags that the Sys V IPC implementation does not allow: in some systems setting execute bits makes the operations fail.

`id`

Returns the system message queue identifier.

`rcv (BUF, LEN [, TYPE [, FLAGS]])`

Read a message from the queue. Returns the type of the message read. See *msgrcv(2)*. The `BUF` becomes tainted.

`remove`

Remove and destroy the message queue from the system.

`set (STAT)`

`set (NAME => VALUE [, NAME => VALUE ...])`

`set` will set the following values of the `stat` structure associated with the message queue.

```
uid
gid
mode (oly the permission bits)
qbytes
```

`set` accepts either a `stat` object, as returned by the `stat` method, or a list of *name-value* pairs.

`snd (TYPE, MSG [, FLAGS])`

Place a message on the queue with the data from `MSG` and with type `TYPE`. See *msgsnd(2)*.

`stat`

Returns an object of type `IPC::Msg::stat` which is a sub-class of `Class::Struct`. It provides the following fields. For a description of these fields see your system documentation.

```
uid
gid
cuid
cgid
mode
qnum
qbytes
lspid
lrpid
stime
rtime
ctime
```

SEE ALSO

IPC::SysV, *Class::Struct*

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