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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'sys_msg.h.0p' command

$ man sys_msg.h.0p

sys_msg.h(0P) POSIX Programmer's Manual sys_msg.h(0P)

PROLOG

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

NAME

sys/msg.h ? XSI message queue structures

SYNOPSIS

#include <sys/msg.h>

DESCRIPTION

The <sys/msg.h> header shall define the following data types through typedef:

msgqnum_t Used for the number of messages in the message queue.

msglen_t Used for the number of bytes allowed in a message queue.

These types shall be unsigned integer types that are able to store val? ues at least as large as a type unsigned short.

The <sys/msg.h> header shall define the following symbolic constant as a message operation flag:

MSG_NOERROR No error if big message.

The <sys/msg.h> header shall define the msqid_ds structure, which shall include the following members:

struct ipc_perm msg_perm Operation permission structure.

msgqnum_t msg_qnum Number of messages currently on queue.

msglen_t msg_qbytes Maximum number of bytes allowed on queue.

pid_t msg_lspid Process ID of last msgsnd().

pid_t msg_lrpid Process ID of last msgrcv().

time_t msg_stime Time of last msgsnd().

time_t msg_rtime Time of last msgrcv().

time_t msg_ctime Time of last change.

The <sys/msg.h> header shall define the pid_t, size_t, ssize_t, and time_t types as described in <sys/types.h>.

The following shall be declared as functions and may also be defined as macros. Function prototypes shall be provided.

```
int     msgctl(int, int, struct msqid_ds *);
int     msgget(key_t, int);
ssize_t msgrcv(int, void *, size_t, long, int);
int     msgsnd(int, const void *, size_t, int);
```

In addition, the <sys/msg.h> header shall include the <sys/ipc.h> header.

The following sections are informative.

APPLICATION USAGE

None.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

<sys_ipc.h>, <sys_types.h>

The System Interfaces volume of POSIX.1?2017, msgctl(), msgget(), ms? grcv(), msgsnd()

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