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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'mq_getattr.3p' command

\$ man mq_getattr.3p

MQ_GETATTR(3P) POSIX Programmer's Manual MQ_GETATTR(3P)

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

mq_getattr ? get message queue attributes (REALTIME)

SYNOPSIS

```
#include <mqueue.h>

int mq_getattr(mqd_t mqdes, struct mq_attr *mqstat);
```

DESCRIPTION

The mq_getattr() function shall obtain status information and attributes of the message queue and the open message queue description associated with the message queue descriptor.

The mqdes argument specifies a message queue descriptor.

The results shall be returned in the mq_attr structure referenced by the mqstat argument.

Upon return, the following members shall have the values associated with the open message queue description as set when the message queue was opened and as modified by subsequent mq_setattr() calls: mq_flags.

The following attributes of the message queue shall be returned as set at message queue creation: mq_maxmsg, mq_msgsize.

Upon return, the following members within the `mq_attr` structure referred by the `mqstat` argument shall be set to the current state of the message queue:

`mq_curmsgs`

The number of messages currently on the queue.

RETURN VALUE

Upon successful completion, the `mq_getattr()` function shall return zero. Otherwise, the function shall return -1 and set `errno` to indicate the error.

ERRORS

The `mq_getattr()` function may fail if:

`EBADF` The `mqdes` argument is not a valid message queue descriptor.

The following sections are informative.

EXAMPLES

See `mq_notify()`.

APPLICATION USAGE

None.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

`mq_notify()`, `mq_open()`, `mq_send()`, `mq_setattr()`, `msgctl()`, `msgget()`, `msgrcv()`, `msgsnd()`

The Base Definitions volume of POSIX.1-2017, `<mqueue.h>`

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