

**NAME**

**mq\_getattr** - get message queue attributes (REALTIME)

**LIBRARY**

POSIX Real-time Library (librt, -lrt)

**SYNOPSIS**

```
#include <mqueue.h>
```

*int*

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

**DESCRIPTION**

The **mq\_getattr**() system call obtains 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 are returned in the *mq\_attr* structure referenced by the *mqstat* argument.

Upon return, the following members will 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 will be returned as set at message queue creation:

*mq\_maxmsg*, *mq\_msgsize*.

Upon return, the following members within the *mq\_attr* structure referenced by the *mqstat* argument will be set to the current state of the message queue:

*mq\_curmsgs* The number of messages currently on the queue.

**RETURN VALUES**

Upon successful completion, the value 0 is returned; otherwise the value -1 is returned and the global variable *errno* is set to indicate the error.

**ERRORS**

The **mq\_getattr**() system call will fail if:

[EBADF] The *mqdes* argument is not a valid message queue descriptor.

**SEE ALSO**

mq\_open(2), mq\_send(2), mq\_setattr(2), mq\_timedsend(2)

**STANDARDS**

The **mq\_getattr()** system call conforms to IEEE Std 1003.1-2004 ("POSIX.1").

**HISTORY**

Support for POSIX message queues first appeared in FreeBSD 7.0.

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