

PROLOG

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NAME

`mq_getattr` — get message queue attributes (**REALTIME**)

SYNOPSIS

```
#include <mqqueue.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 referenced 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.1-2008, **<mqqueue.h>**

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