PROLOG

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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 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, **<mqueue.h>**

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Standard can be obtained online at http://www.unix.org/online.html .

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