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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