

**NAME**

**mq\_setattr** - set message queue attributes (REALTIME)

**LIBRARY**

POSIX Real-time Library (librt, -lrt)

**SYNOPSIS**

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

*int*

```
mq_setattr(mqd_t mqdes, const struct mq_attr *restrict mqstat, struct mq_attr *restrict omqstat);
```

**DESCRIPTION**

The **mq\_setattr()** system call sets attributes associated with the open message queue description referenced by the message queue descriptor specified by *mqdes*. The message queue attributes corresponding to the following members defined in the *mq\_attr* structure will be set to the specified values upon successful completion of **mq\_setattr()**:

*mq\_flags* The value of this member is zero or O\_NONBLOCK.

The values of the *mq\_maxmsg*, *mq\_msgsize*, and *mq\_curmsgs* members of the *mq\_attr* structure are ignored by **mq\_setattr()**.

**RETURN VALUES**

Upon successful completion, the function returns a value of zero and the attributes of the message queue will have been changed as specified.

Otherwise, the message queue attributes are unchanged, and the function returns a value of -1 and sets the global variable *errno* to indicate the error.

**ERRORS**

The **mq\_setattr()** 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\_timedsend(2)

**STANDARDS**

The **mq\_setattr()** 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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