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1 Name

mq_copy - Command line interface to Linux, POSIX, message queues.

2 Description

Provides a command line interface, usable by scripting languages, to the Linux system of POSIX message queues.

The Linux system provides the POSIX message queues as a modified file descriptor. The default location is under the directory: /dev/mqueue .

POSIX message queues have kernel persistence. If not removed by *unlink*, the queue will exist until the system is shut down. The action: "unlink on close" is a mq_copy command line option.

POSIX message queues allow processes to exchange data in the form of messages.

mq_copy supports line oriented, string messages. That is, lines terminated by the new-line character. *mq_copy* provides two basic functions: *copy_in* and *copy_out*.

- The copy-in function copies line oriented strings on stdin as messages to a specified queue.
- The *copy-out* function copies messages from the specified queue as line oriented strings to *stdout*.

3 Arguments

```
mg copy [--in | --out ] [options] /queue name
```

The minimum command arguments are the function, either --in (copy_in) or --out (copy_out) and the name of an existing queue. The GLIBC library requires that the queue name begin with the path separator character '/'.

3.1 Function

```
[ --ci | --in | -i ] copy stdin to queue
[ --co | --out | -o ] copy queue to stdout
```

3.2 Options

```
[--create | --cr | -c ] Create queue if not already present on open
[--exclusive | --ex | -x ] Create queue on open, queue must not exist.

Default Open existing queue

[--ro | -r ] Open queue as read-only
```

```
[ --wo | -w ] Open queue as write-only
```

Default Open queue as read-write

[--mode | --md | -m] <perm> Set user and group permissions. Permissions must be either three or four octal digits (not symbols).

Default 0660

[--attributes | --at | -a] <at-list> One or more, comma separated, name=value pairs or feature.

Example, showing default values:

```
-a maxmsgs=10,msgsize=256,noblock
```

where:

 ${\tt maxmsgs:}$ The ${\tt maximum}$ number of messages the queue will hold.

msgsize: The maximum byte length of any single message.

noblock: Disable the default blocking behavior (disabled).

[--no-block | --nb | -n] Open descriptor as non-blocking.

Default Blocking (Non-blocking operation is disabled.)

[--time | -t] <tenths second> Set maximum time to block in tenths of a second.

Copy-in will block if no space on queue for a new message.

Copy-out will block if no message on queue to be read.

Default No time limit for condition to clear.

[--priority | --pri | -p] <0 .. 31> Set the message priority during Copy-in.

Default 15

Lower value is a higher priority. The mqueue delivers the oldest message of the highest priority first.

[--unlink | --ul | -u] Unlink (delete name) queue name prior to close. Like a file descriptor, the queue remains available to any queue descriptor that has it open at the time of the unlink.