

queue

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	TITLE :				
ACTION	NAME	DATE	SIGNATURE		
WRITTEN BY		August 5, 2022			

REVISION HISTORY					
NUMBER	DATE	DESCRIPTION	NAME		

queue

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# **Chapter 1**

# queue

## 1.1 queue.library

Copyright

GNU Library General Public License

Warranty

Function Reference

## 1.2 Copyright

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That's all there is to it!

### 1.4 Function Reference

queue.library/QOpen()
queue.library/QClose()
queue.library/QAddMsg()
queue.library/QRemMsg()
queue.library/QReplyMsg()
queue.library/QFlush()

### 1.5 SHW Wabnitz

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### 1.6 queue.library/Qpen()

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```
NAME
QOpen
SYNOPSIS
qh = QOpen(name, mode, sigbit)
                 D0
           Α0
QHandle = QOpen(STRPTR name, ULONG mode, ULONG sigbit)
FUNCTION
This function opens a message queue either for reading
or writing. If you want both you have to open the queue
twice.
INPUTS
name - the name of the message queue
\verb| mode - QMODE\_SEND or QMODE\_LISTEN| \\
sigbit - A signal allocated by AllocSignal()
RESULT
qh - A handle for the message queue
```

## 1.7 queue.library/QClose()

## 1.8 queue.library/QAddMsg()

```
NAME
QAddMsg
SYNOPSIS
```

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```
QAddMsg(qh, msg)
A0 A1

void QAddMsg(QHandle, QMessage *)

FUNCTION
Appends a message to a message queue. All tasks listening to the queue are signalled. If nobody is listening the message is placed in the handle's reply list immediately and the current task signals itself;—)

INPUTS
qh - A message queue handle
msg - A message
```

## 1.9 queue.library/QRemMsg()

```
NAME
QRemMsg
 SYNOPSIS
QRemMsq(qh, msq)
              A0 A1
void QRemMsg(QHandle, QMessage *)
FUNCTION
Attempts to remove a message from the queue. The removal is
delayed until no task refers to the message anymore. This
function can be used to implement timeouts.
INPUTS
qh - A message queue handle
msg - A message
NOTE
When one or more tasks refer to the message to be removed
      it is marked as "removed" and cannot be read with QGetMsq()
by other tasks.
```

## 1.10 queue.library/QGetMsg()

```
NAME
QGetMsg

SYNOPSIS

msg = QGetMsg(qh)
D0 A0

QMessage *QGetMsg(QHandle)

FUNCTIONS
```

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```
Retrieves the next message in the queue if the handle has been opened with QMODE_LISTEN or the the next message in the handle's reply list if the handle has been opened with QMODE_SEND.

INPUTS
qh - A message queue handle

RESULT
msg - A message or NULL

NOTE
All tasks get a chance to read every message in the queue with the possible exception of messages removed with QRemMsg().
```

## 1.11 queue.library/QReplyMsg()

```
NAME
QReplyMsg
 SYNOPSIS
QReplyMsg(qh)
                A0
void QReplyMsg(QHandle)
FUNCTIONS
This function should be used if the current message is no
longer required but the next message cannot be processed
immediately.
INPUTS
qh - A message queue handle
QGetMsg() automatically replies the last message. It is not
necessary to use QReplyMsg() before QGetMsg(). A task which
might block indetermindly should use QReplyMsg() to allow
the originator of it's current message to reclaim it.
```

## 1.12 queue.library/QFlush()

```
NAME
QFlush

SYNOPSIS
QFlush(qh)
A0

QFlush(QHandle)

FUNCTIONS
Kicks all removed but not yet dequeued messages out of the
```

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```
queue and into the reply lists of the corresponding handles.

INPUTS
qh - A message queue handle

NOTE
Shouldn't be necessary.
```