

# TPCHKUNSOL(3)

| REVISION HISTORY |      |             |      |
|------------------|------|-------------|------|
| NUMBER           | DATE | DESCRIPTION | NAME |
|                  |      |             |      |

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## Chapter 1

# SYNOPSIS

```
#include <atmi.h>
```

```
int tpchkunsol(void);
```

For XATMI client link with *-latmiclt -latmi -lubf -lnstd -lpthread -lrt -lm*

For XATMI server link with *-latmisrvl -latmisrvnomainl -latmisrvinteg -latmi -lubf -lnstd -lpthread -lrt -lm*

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## Chapter 2

# DESCRIPTION

Function is used for receiving and dispatching unsolicited messages (published by **tpnotify(3)** or **tpbroadcast(3)**) to client processes in case if client process is not doing in-progress **tpcall(3)** or **tpgetrply(3)**.

From software architecture standpoint, the XATMI client reply queue is shared between normal **tpcall(3)**/**tpacall(3)** replies and notifications.

**tpchkunsol()** checks for priority 1 messages (notification/broadcast) in client reply queue. If such message is found, then callback set by **tpsetunsol(3)** is invoked. If **tpacall(3)** reply message is received instead of notification, the call reply message is saved in in-process memory linked list which serves internally as a *queue*. Thus the next **tpacall(3)** invocation will return to user process message from linked list instead of the POSIX queue. The programmer must take this in account, because if there will be lots of **tpacall(3)** invocation and few **tpgetrply(3)**, then process memory will grow with unprocessed replies. Thus it is recommended when using unsolicited messaging, periodically invoke the **tpgetrply(3)**.

Note when doing **tpcall(3)** or **tpgetrply(3)**, these functions in case of receiving unsolicited message, will dispatch notifications automatically. Thus there is no need for **tpchkunsol(3)** invocation during this time.

## Chapter 3

# RETURN VALUE

On success, **tpchkunsol()** returns number of notifications processed; on error, -1 is returned, with **tperrno** set to indicate the error.

## Chapter 4

# ERRORS

Note that **tpstrerror()** returns generic error message plus custom message with debug info from last function call.

**TPESYSTEM** System failure occurred during serving. See logs i.e. user log, or debugs for more info.

**TPEOS** System failure occurred during serving. See logs i.e. user log, or debugs for more info.

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## Chapter 5

# EXAMPLE

See `atmitest/test039_tpbroadcast/atmict39.c` for sample code.



## Chapter 6

# BUGS

Report bugs to [support@mavimax.com](mailto:support@mavimax.com)

## Chapter 7

## SEE ALSO

**tpsetunsol(3) tpnotify(3) tpbroadcast(3) tpinit(3) tpbrdcstsv(8)**

## Chapter 8

# COPYING

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