TPCHKUNSOL(3)

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

Contents

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 *-latmisrv|-latmisrvnomain|-latmisrvinteg -latmi -lubf -lnstd -lpthread -lrt -lm*

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/tpacall 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.

Chapter 5

EXAMPLE

See **atmitest/test039_tpbroadcast/atmiclt39.c** for sample code.

Chapter 6

BUGS

Report bugs to support@mavimax.com

Chapter 7

SEE ALSO

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

Chapter 8

COPYING