

TAPCALL(3)

REVISION HISTORY

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Chapter 1

SYNOPSIS

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

```
int tpcall(char *svc, char *data, long len, long flags);
```

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

For XATMI server link with *-latmisrv|-latmisrvnomain|-latmisrvinteg -latmi -lubf -lnstd -lpthread -lrt -lm*

Chapter 2

DESCRIPTION

Call the XATMI service by given *svc* name asynchronously. The *data* is optional input XATMI buffer. If it is not a NULL, then it must be allocated with **tpcalloc()** call, *len* is used for buffer types such **CARRAY**, where buffer length is not described by type. If call succeeds, the function return the call descriptor. With call descriptor it is possible later to receive the response by using **tpgetrply()** If **TPNOTRAN** is not specified and current process is in global transaction, then system will make destination process run in same destination process.

Valid flags

TPNOTRAN Do not call service in transaction mode. This is effective in case if caller process is running in transaction mode, but destination process shall not run in the same global transaction

TPSIGRSTRT Restart the system call in progress if interrupted by signal handler. This affects only underlaying mq_* function calls.

TPNOBLOCK In case of target service queue is full, do not wait on queue, but return error. The error code for this situation is **TPEBLOCK**.

TPNOREPLY Do not expect reply from the call. This works with principle "send and forget". In this case return value for successful call is **0**.

Chapter 3

RETURN VALUE

On success, **tpacall()** return call descriptor (>0); on error, -1 is returned, with **tperrno** set to indicate the error.

Chapter 4

ERRORS

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

TPEINVAL Invalid parameter is given to function. Either service name is NULL or flags does not allow to change the value.

TPENOENT No service (*svc* parameter) advertised in system.

TPETIME Service did not reply in given time (*NDRX_TOUT*).

TPESVCFAIL Service returned *TPFAIL*. This is application level failure.

TPESVCERR System level service failure. Server died during the message presence in service queue.

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.

TPEBLOCK Service queue was full and **TPNOBLOCK** flag was specified.

TPNOTIME Do not expire call by server process, if message age is older than *NDRX_TOUT* timeout (or timeout overridden by **tptoutset(3)**).

Chapter 5

EXAMPLE

See `atmitest/test001_basiccall/atmict1.c` for sample code.

Chapter 6

BUGS

Report bugs to support@mavimax.com

Chapter 7

SEE ALSO

`tpcall(3)` `tpgetrply(3)` `tpcancel(3)` `tptoutset(3)`

Chapter 8

COPYING

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