TPBEGIN(3)

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

Contents

Chapter 1

SYNOPSIS

#include <atmi.h>

int tpbegin (unsigned long *timeout*, long *flags*);

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

Begint the global transaction. The current user must be open **XA** subsystem by **topopen()**. *timeout* is setting for transaction manager (**tmsrv**) how long transaction can hang in active state (i.e. not prepared/committed). Field *flags* is reserved for future use and must be 0. The work done by **tpbegin()** transaction is only in scope of processes which uses **XA** interfaces for resource managers. Any others works are outside of current scope. If *timeout* is set to 0, then default maximum time for transaction processing is used. Transaction must be committed or aborted by client process by using **tpcommit()** or **tpabort()**. If any **tpcall()** with no **TPNOTRAN** flag fails within given global transaction, then transaction is automatically marked as abort only.

Client process can suspend the global transaction by **tpsuspend(3)** and some other process can resume the transaction as client with suspend data. In that case that other process can do the commit.

Chapter 3

RETURN VALUE

On success, **tpbegin()** return zero; 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.

TPEINVAL flags was not 0.

TPETIME Transaction manager (**tmsrv(8)**) did not respond in configured time-out time. The state of transaction is unknown.

TPESVCERR Failed to call transaction manager, with service error. The state of transaction is unknown.

TPEPROTO XA subsystem was not initialized (did not call **tpopen()**) or global transaction already started.

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/test021_xafull/atmiclt21.c** for sample code.

Chapter 6

BUGS

Report bugs to madars.vitolins@gmail.com

Chapter 7

SEE ALSO

tpbegin(3) tpcommit(3) tpopen(3) tpclose(3) tpsuspend(3) tpresume(3)

Chapter 8

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