

TX_BEGIN(3)

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

Contents

1	SYNOPSIS	1
2	DESCRIPTION	2
3	RETURN VALUE	3
4	ERRORS	4
5	EXAMPLE	5
6	BUGS	6
7	SEE ALSO	7
8	COPYING	8

Chapter 1

SYNOPSIS

```
#include <tx.h>
```

```
int tx_begin(void);
```

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

Function starts global transaction for given thread. The resource managers prior must be open by `tx_open(3)`. The transaction shall be terminated with `tx_commit(3)` or `tx_rollback(3)`.

When transaction is started, it uses settings applied by following functions:

- `tx_set_transaction_timeout(3)` - transaction timeout, applied is on per thread bases, default is **0** - maximum timeout.

TX API is base on TP API. This function is based on **`tpbegin(3)`** and it is possible to mix these two API kinds.

Chapter 3

RETURN VALUE

On success, `tx_begin()` return `TX_OK`; on error, error code is returned

Chapter 4

ERRORS

TX_PROTOCOL_ERROR Function is called in improper context, either there was no call to *tx_open()* or thread is already in global transaction.

TX_ERROR Error occurred at transaction manager. The exact cause shall be checked in transaction manager log files. At this error, control thread is no more in global transaction.

TX_FAIL System error occurred during starting the transaction. The exact cause shall be checked in current process and/or transaction manager log files. At this error, control thread is no more in global transaction.

Chapter 5

EXAMPLE

See `atmitest/test021_xafull/atmict21tx.c` for sample code.

Chapter 6

BUGS

Report bugs to support@mavimax.com

Chapter 7

SEE ALSO

[tx_open\(3\)](#) [tpbegin\(3\)](#) [tx_commit\(3\)](#) [tx_rollback\(3\)](#) [tx_info\(3\)](#) [tx_close\(3\)](#) [tx_set_transaction_timeout\(3\)](#)

Chapter 8

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