TX_COMMIT(3)

	REVISION HISTORY		
NUMBER	DATE	DESCRIPTION	NAME

Contents

Chapter 1

SYNOPSIS

#include <tx.h>

int tx_commit(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 commits global transaction associated with current thread previously started by **tx_begin(3)**. If transaction control was changed by **tx_set_transaction_control(3)** flag **TX_CHAINED**, the new transaction is started immediately after the commit.

If commit return was altered by **tx_set_commit_return(3)** and setting flag was set to **TX_COMMIT_DECISION_LOGGED**, the function will return after transaction is prepared by resource managers, and final commit (second phase of transaction) is left for transaction manager (**tmsrv(8)**) to complete by background thread, executed periodically (configured by **-s** scan time CLI parameter to **tmsrv**).

Function use following attributes set by:

- **tx_set_transaction_control(3)** - if applied with **TX_CHAINED**, new transaction is started. The default is **TX_UNCHAINED** - meaning after commit, control thread is no more in global transaction.

- **tx_set_commit_return(3)** - if applied with **TX_COMMIT_DECISION_LOGGED** function returns when first phase of two phase commit is completed (and second phase is done by background thread). The default is **TX_COMMIT_COMPLETED** meaning that function returns when commit is completed.

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

Chapter 3

RETURN VALUE

On success, **tx_commit**() return **TX_OK**; on error, error code is returned

Chapter 4

ERRORS

TX_NO_BEGIN The transaction committed successfully; however, a new transaction could not be started and the caller is no longer in transaction mode. This return value occurs only when the transaction_control characteristic is **TX_CHAINED**.

TX_ROLLBACK The transaction could not commit and has been rolled back. In addition, if the **transaction_control(3)** characteristic is **TX_CHAINED**, a new transaction is started.

TX_ROLLBACK_NO_BEGIN The transaction could not commit and has been rolled back. In addition, a new transaction could not be started and the caller is no longer in transaction mode. This return value can occur only when the **transaction_control(3)** characteristic is **TX_CHAINED**.

TX_MIXED The transaction was partially committed and partially rolled back. In addition, if the **transaction_control(3)** characteristic is **TX_CHAINED**, a new transaction is started.

TX_MIXED_NO_BEGIN The transaction was partially committed and partially rolled back. In addition, a new transaction could not be started and the caller is no longer in transaction mode. This return value can occur only when the **transaction_control(3)** characteristic is **TX_CHAINED**.

TX_HAZARD Due to a failure, the transaction may have been partially committed and partially rolled back. In addition, if the **transaction_control(3)** characteristic is **TX_CHAINED**, a new transaction is started.

TX_HAZARD_NO_BEGIN Due to a failure, the transaction may have been partially committed and partially rolled back. In addition, a new transaction could not be started and the caller is no longer in transaction mode. This return value can occur only when the **transaction_control(3)** characteristic is **TX_CHAINED**.

TX_PROTOCOL_ERROR The function was called in an improper context (for example, the caller is not in transaction mode). The caller's state with respect to the transaction is not changed.

TX_FAIL Either the transaction manager or one or more of the resource managers encountered a fatal error. The nature of the error is such that the transaction manager and/or one or more of the resource managers can no longer perform work on behalf of the application. The exact nature of the error can be checked in process and/or transaction manager log files.

Chapter 5

EXAMPLE

See **atmitest/test021_xafull/atmiclt21tx.c** for sample code.

Chapter 6

BUGS

Report bugs to support@mavimax.com

Chapter 7

SEE ALSO

tx_begin(3) tpcommit(3) tx_rollback(3) tx_info(3) tx_close(3) tx_set_transaction_timeout(3) tx_set_transaction_control(3) tx_set_commit_return(3)

Chapter 8

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