TPINIT(3)

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

Contents

Chapter 1

SYNOPSIS

#include <atmi.h>

int tpinit(TPINIT *_tpinfo_);

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 intended to be called by XATMI clients, to initialize XATMI session. *tpinfo* is defined as:

```
struct  tpinfo_t
{
        char usrname[MAXTIDENT+2];
        char cltname[MAXTIDENT+2];
        char passwd[MAXTIDENT+2];
        char grpname[MAXTIDENT+2];
        long flags;
        long datalen;
        long data;
};
typedef struct  tpinfo_t TPINIT;
```

If *tpinfo→cltname* is set, then it is using for client process identification. If it is not set, then client process is identified as executable name. Other fields of *tpinfo* are reserved for future use. *tpinfo* can bet set to **NULL**. Function can be used also by ATMI server's worker threads, to initialize them. How ever call of **tpinit()** is optional, as it is automaitcally issued, then any of tp* commands are invoked. At current Enduro/X version it is recommended to use **tpinit()** with NULL parameter. Also when client process does threading, then each thread needs to call **tpinit()** or it will be automatically invoked as described before. Each new thread have it's own thread local storage (TLS), which describes Enduro/X state, thus new thread will get un-initialised TLS which results in need of calling **tpinit()**.

Internally function opens any Posix queues needed by client, reads the environment variables and initializes XA sub-system, if configured and not set to lazy.

Valid flags for TPINIT.flags

TPU_IGN Ignore (drop) incoming unsolicited messages.

Chapter 3

RETURN VALUE

On success, **tpinit()** returns 0. 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 Environment variables not configured, see **ex_env(5)** page.

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/test017_srvthread/atmisv17.c** for sample code.

Chapter 6

BUGS

Report bugs to support@mavimax.com

Chapter 7

SEE ALSO

ex_env(5)

Chapter 8

COPYING