# 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](mailto:support@mavimax.com)

# Chapter 7

# SEE ALSO

**ex_env(5)**

# Chapter 8

# COPYING