

TPINIT(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 <atmi.h>
```

```
int tpinit(TPINIT *tpinfo);
```

For XATMI client link with *-latmiclt -latmi -lubf -lnstd -lpthread -lrt -lm*

For XATMI server link with *-latmisrvl -latmisrvnomainl -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  username[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 be set to **NULL**. Function can be used also by XATMI server's worker threads, to initialize them. However call of **tpinit()** is optional, as it is automatically 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 has its 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 madars.vitolins@gmail.com

Chapter 7

SEE ALSO

ex_env(5)

Chapter 8

COPYING

© Mavimax, Ltd