

# TPC CONVERT(3)

REVISION HISTORY			
NUMBER	DATE	DESCRIPTION	NAME

# Contents

<a href="#">1</a>	<a href="#">SYNOPSIS</a>	<a href="#">1</a>
<a href="#">2</a>	<a href="#">DESCRIPTION</a>	<a href="#">2</a>
<a href="#">3</a>	<a href="#">RETURN VALUE</a>	<a href="#">3</a>
<a href="#">4</a>	<a href="#">ERRORS</a>	<a href="#">4</a>
<a href="#">5</a>	<a href="#">EXAMPLE</a>	<a href="#">5</a>
<a href="#">6</a>	<a href="#">BUGS</a>	<a href="#">6</a>
<a href="#">7</a>	<a href="#">SEE ALSO</a>	<a href="#">7</a>
<a href="#">8</a>	<a href="#">COPYING</a>	<a href="#">8</a>

## Chapter 1

# SYNOPSIS

```
#include <atmi.h>
```

```
int tpconvert (char *str, char *bin, long flags);
```

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 used to convert Enduro/X identifiers like client id, transaction id and XA two-phase commit xid to string representation. Function also offers to convert value from string back to binary (Enduro/X) identifier. If converting to string, then *bin* is pointer to binary identifier, casted to char pointer. It is assumed that *str* is at least **TPCONVMAXSTR** bytes long (currently 512). If converting to binary representation, then destination size must match the target structure, i.e. **CLIENTID**, **TPTRANID** or **XID** from **xa.h**.

### Valid flags

**TPCONVCLTID** Convert **CLIENTID** type from **atmi.h** to/from string.

**TPCONVTRANID** Convert **TPTRANID** type from **atmi.h** to/from string. Note that string version converted is platform specific. And not will not be valid (restorable) on different platform type (i.e. little-endian, big-endian, 32bit or 64bit).

**TPCONVXID** Convert **XID** type from **xa.h** to/from string.

**TPTOSTRING** In this mode the value from *bin* parameter is converted to *str* parameter. If flag is not present then value from *str* is converted to *bin*.

If multiple TPCONV flags are present, then execution will pick up the first flag for processing in following order: **TPCONVCLTID**, **TPCONVTRANID**, **TPCONVXID**.

## Chapter 3

# RETURN VALUE

On success, **tpconvert()** return zero; on error, -1 is returned, with **tperrno** set to indicate the error.

## Chapter 4

# ERRORS

Note that **tpsterror()** returns generic error message plus custom message with debug info from last function call.

**TPEINVAL** *str* or *bin* params are NULL. Error is returned also in cases if *TPTOSTRING* is present, but *str* parameter is zero length (first byte 0x00). Also in cases if none of **TPCONVCLTID**, **TPCONVTRANID** or **TPCONVXID** are present this error will be returned too.

**TPEINVAL** Enduro/X tpinit failed - environment variables not configured, see *ex\_env(5)* page.

**TPESYSTEM** During Enduro/X init - system failure occurred during serving. See logs i.e. user log, or debugs for more info.

**TPEOS** During Enduro/X init operating system failure occurred during serving. See logs i.e. user log, or debugs for more info.

## Chapter 5

# EXAMPLE

See `atmitest/test021_xafull/atmiclt21-tpconvert.c` for sample code.

## Chapter 6

# BUGS

Report bugs to [support@mavimax.com](mailto:support@mavimax.com)

## Chapter 7

## SEE ALSO

`tpinit(3)` `tpsuspend(3)` `tpresume(3)` `tpservice(3)`

## Chapter 8

# COPYING

© Mavimax, Ltd