

TPALLOC(3)

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Chapter 1

SYNOPSIS

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

```
char *tpalloc(char *type, char *subtype, long size);
```

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 allocates XATMI buffer by given *type* and *subtype*. The buffer size is indicated by *size* argument, if it set to 0 and buffer type is *UBF*, then system allocates 1024 for new buffer. Currently subtype is not used, and it can be leaved NULL or empty string. If function succeeds, then Enduro/X registers buffer in internal registry. If user allocates the buffer, it is up to user to free it with **tpfree()**, only exception is with auto buffers which are allocated at point when when service receives request, and Enduro/X will free the buffer after doing **tpreturn()** or **tpforward()**.

Valid type

UBF Unified Buffer Format. Which is type key-value storage with extensive API. See **ubf.h** for list of functions.

UBF32 The same as **UBF**.

FML Compatibility mode with Tuxedo. Same as **UBF**.

FML32 Compatibility mode with Tuxedo. Same as **UBF**.

STRING String buffer. It can store any ASCII character except 0x00, which will indicate the end of the data i.e. zero terminated string.

JSON This is also string format, can hold ASCII chars, 0x00 is used for string termination. The difference between this format and **STRING**, is that JSON buffer can be used for converting it automatically to **UBF** and vice versa, either by service request or by issuing **tpjsontoubf()**, **tpubftojson()**.

CARRAY Byte array buffer. Can hold 0x00 byte.

Chapter 3

RETURN VALUE

On success, **tpcall()** return zero; 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 Invalid type parameters are given to function, possibly NULL. This error also can be generated in case if the environment is not configured for Enduro/X properly.

TPEOTYPE Invalid type specified to function.

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. In case of insufficient memory this error will be generated too.

Chapter 5

EXAMPLE

See `atmitest/test001_basiccall/atmiclt1.c` for sample code.

Chapter 6

BUGS

Report bugs to madars.vitolins@gmail.com

Chapter 7

SEE ALSO

`tpfree(3)`

Chapter 8

COPYING

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