

**TPRETURN(3)**

REVISION HISTORY			
NUMBER	DATE	DESCRIPTION	NAME

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## Chapter 1

# SYNOPSIS

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

```
void tpreturn(int rval, long rcode, char *data, long len, long flags);
```

```
Link with -latmisrv|-latmisrvnomain|-latmisrvinteg -latmi -lubf -lnstd -lpthread -lrt -lm
```

## Chapter 2

# DESCRIPTION

Function is used to terminate service processing and return control to caller. The return buffer *data* must be auto buffer or allocated by **tpalloc()**. In either case the buffer's are made free by Enduro/X. I.e. The original request buffer is made free (if available) and the return buffer is made free too, if different than request buffer.

Normally the auto-buffer shall not be made free by user, as that will cause the corruption at the stage of the **tpreturn**. But auto-buffer free by user can be suitable in case if doing call state transfer over the non XATMI sub-system, then call context restore in other OS process with **tpsrvsetctxdata(3)** must be done with **TPNOAUTBUF** flag specified, and the original service which received request prior doing **tpcontinue(3)** shall make the auto buffer free **tpfree(3)**. If the **TPNOAUTBUF** was specified at state restore, then **tpreturn()** command will not try to free the auto buffer.

*Len* is needed in case if buffer type is not self describing. Internally function uses long jump to get back to internal message polling mechanisms. **tpreturn()** is used for normal service calls and for conversational service calls. **tpdiscon()** shall not be used by service program, but use **tpreturn()** instead. *rcode* field is used by user program, to return back the specific value to caller.

*rval* values:

**TPSUCCESS** service terminated with success.

**TPFAIL** service terminated with failure. In case of global transaction, this return value will mark it as abort only.

*flags* values:

**TPSOFTTIMEOUT** soft timeout occurred. This can be used to simulate **TPETIME** error for caller. In this case *rcode* is set to **TPETIME**, that is later used at client side for **tpreturn(3)** to respond with XATMI error.

This function is available only for XATMI servers.

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## Chapter 3

# RETURN VALUE

Function is marked as void and it have no return values.

## Chapter 4

# ERRORS

No errors available (but some details might be logged in trace files).

## Chapter 5

# EXAMPLE

See `atmitest/test001_basiccall/atmisv1.c` for sample code.

## Chapter 6

# BUGS

Report bugs to [madars.vitolins@gmail.com](mailto:madars.vitolins@gmail.com)

## Chapter 7

## SEE ALSO

**tpforward(3)** **tpcall(3)**

## Chapter 8

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