

# TPLOGDUMPDIFF(3)

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## Chapter 1

# SYNOPSIS

```
#include <ndebug.h>
```

```
void tplogdumpdiff(int lev, char *comment, void *ptr1, void *ptr2, int len);
```

or

```
#define TP_DUMP_DIFF(lev,comment,ptr,ptr2,len)
```

Link with *-lnstd -lpthread -lrt -lm*

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## Chapter 2

# DESCRIPTION

Function compares two memory areas by given pointers *ptr* and *ptr2*. The hex dump is generate and output is written to current logger (either process based, thread based or request based). The **tplogdumpdiff()** basically is wrapper for **TP\_LOGDUMP\_DIFF**. For C/C++ programs it is recommended to use macro version. *lev* is debug level from 1 (log\_always) .. 5 (log\_debug). Comment is title line of the dump. *ptr* and *ptr2* are pointer to memory blocks to compare. *len* is number of bytes in each array to compare.

Log levels are following (from ndebug.h):

- log\_always 1
- log\_error 2
- log\_warn 3
- log\_info 4
- log\_debug 5

## Chapter 3

# RETURN VALUE

N/A

## Chapter 4

# ERRORS

N/A

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## Chapter 5

# EXAMPLE

Code dumpdifftest.c

```
#include <ndebug.h>

int main (int argc, char **argv)
{
    char arr1[32];
    char arr2[32];
    int i;

    for (i=0; i<sizeof(arr1); i++)
    {
        arr1[i]=(char) (65+i);
        arr2[i]=(char) (66+i);
    }

    tplogdumpdiff(log_debug, "Compare two arrays", arr1, arr2, sizeof(arr1));

    TP_DUMP_DIFF(5, "Compare two arrays (TP_DUMP version)", arr1, arr2, sizeof(arr1));

    return 0;
}
```

Sample run:

```
$ cc dumpdifftest.c -lnstd -lpthread -lrt -lm -I /include
$ ./a.out
t:USER:5:10865:000:20160928:095506583:/tplog.c:0437:Compare two arrays
< 0000 41 42 43 44 45 46 47 48 49 4a 4b 4c 4d 4e 4f 50 ABCDEFGHIJKLMNOP
> 0000 42 43 44 45 46 47 48 49 4a 4b 4c 4d 4e 4f 50 51 BCDEFGHIJKLMNOPQ
< 0010 51 52 53 54 55 56 57 58 59 5a 5b 5c 5d 5e 5f 60 QRSTUVWXYZ[\]^_`
> 0010 52 53 54 55 56 57 58 59 5a 5b 5c 5d 5e 5f 60 61 RSTUVWXYZ[\]^_`a
t:USER:5:10865:000:20160928:095506583:mpdiff.c:0017:Compare two arrays (TP_DUMP version)
< 0000 41 42 43 44 45 46 47 48 49 4a 4b 4c 4d 4e 4f 50 ABCDEFGHIJKLMNOP
> 0000 42 43 44 45 46 47 48 49 4a 4b 4c 4d 4e 4f 50 51 BCDEFGHIJKLMNOPQ
< 0010 51 52 53 54 55 56 57 58 59 5a 5b 5c 5d 5e 5f 60 QRSTUVWXYZ[\]^_`
> 0010 52 53 54 55 56 57 58 59 5a 5b 5c 5d 5e 5f 60 61 RSTUVWXYZ[\]^_`a
```

## Chapter 6

# BUGS

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

## Chapter 7

## SEE ALSO

**tplogdump(3) tplog(3) tplogprintubf(3) tplogconfig(3) tplogsetreqfile\_direct(3) tplogsetreqfile(3) ex\_devguide(guides)**

## Chapter 8

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