# BBOOLPRCB(3)

**REVISION HISTORY**

| NUMBER | DATE | DESCRIPTION | NAME |
|--------|------|-------------|------|
|        |      |             |      |

# Contents

# Chapter 1

# SYNOPSIS

#include <ubf.h>

void Bboolprcb (char * *tree*, int (*\*p_writef*)(char *\*buffer*, long *datalen*, void *\*dataptr1*), void *\*dataptr1*);

Link with *-lubf -lnstd -lm -lpthread*

# Chapter 2

# DESCRIPTION

Print the compiled UBF buffer boolean expression evaluation Abstract Syntax Tree (AST) at *tree* hander to *p_writef* callback function. The sample output for AST is following:

```
int writef(char *buffer, long datalen, void *dataptr1)
{
    /* in total this will get buffer fragments like
     * ((2*(4+5)) || ((5 && ('abc' %% '..b')) && (((2/2)*4) == 5))
     * note there could be newlines (\n) between calls
     */
    return 0;
}

...
tree=Bboolco ("2 * ( 4 + 5 ) || 5 && 'abc' %% '..b' && 2/2*4==5")
...
Bboolprcb(tree, writef, NULL);
```

The callback function will called several times as portions of the AST are traversed with each call line is terminated with EOS (0x00 byte) symbol. The compiled tree to function is presented by *tree* argument, the callback is set by *p_writef* function. Function accepts optional *dataptr1* argument which is user pointer forwarded to *p_writef* callback. The *dataptr1* can be NULL.

The *p_writef* by it self receives *buffer* which contains ASCII chars of the AST representation, *datalen* includes the data buffer received (note EOS are note included in intermediate calls). The *dataptr1* is user pointer passed to **Bboolprcb**(). In case of success the callback shall return 0, and in cases of failure a non zero value. When error occurs, the function terminates the printing.

The last call to printing includes newline and then 0x00 follows.

# Chapter 3

# RETURN VALUE

Function is void and does not return any value.

# Chapter 4

# ERRORS

Function is void and does not return any error.

# Chapter 5

# EXAMPLE

See **ubftest/test_expr.c** for sample code.

# Chapter 6

# BUGS

Report bugs to support@mavimax.com

# Chapter 7

# SEE ALSO

**Bboolpr(3) Bboolev(3) Bfloatev(3) Btreefree(3)**

# Chapter 8

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