BEXTREADCB(3)

	REVISION HISTORY		
NUMBER	DATE	DESCRIPTION	NAME

Contents

Chapter 1

SYNOPSIS

#include <ubf.h>

int Bextreadcb (UBFH * *p_ub*, long (*p_readf*)(char *buffer*, long *bufsz*, void *dataptr1*), void *dataptr1*);

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

Chapter 2

DESCRIPTION

Restore the buffer from text populated by **Bprint(3)**, **Bprintf(3)** or **Bprintfcb(3)**.

The read format is "[COMMAND]<FIELD><TAB><VALUE><NEW_LINE>". Input also support fields by id, then format for <FIELD> is "((BFLDID32)<FIELD_ID>)".

Sample buffer:

```
T_SHORT_FLD     1765
T_LONG_FLD      3333111
T_LONG_FLD      2
T_CHAR_FLD      A
T_FLOAT_FLD     1.33000
T_DOUBLE_FLD    1111.220000
T_DOUBLE_FLD    333.000000
T_DOUBLE_FLD    444.000000
T_STRING_FLD    HELLO WORLD
T_CARRAY_FLD    \00\01\02\03HELLO BINARY\04\05\00\\
((BFLDID32)167772261)   HELLOSVC
```

p_ub is buffer to write the data to, *p_readf* is function from which to read the line by line data. Each call to callback shall return zero terminated line with exactly one field, value and newline in the end. The *bufsz* denotes the buffer size of *buffer*, where data shall be put. In case if success, the *p_readf* must return number bytes written to *buffer*. At the end of the buffer, the *p_readf* must return **0**. In case of error, callback function shall return **-1**. The **dataptr1** passed to **Bextreadcb()** is forwarded to callback function and is meant to be used by user specific purposes. Field is optional and may be set to NULL, if not used by callback.

Input format supports also macro commands. This is optional **COMMAND** block, that can have following values:

+ set the field value at occurrence 0.

- delete field from buffer.

= copy the field value from field name which is stored at <VALUE>.

comment, line ignored

For example:

```
# Set the field value
T_SHORT_FLD     123
# Copy the value from T_SHORT_FLD to T_LONG_FLD
=T_LONG_FLD     T_SHORT_FLD
# Change the occurrence 0 to 444
+T_SHORT_FLD    444
```

The final buffer will be:

```
T_SHORT_FLD     444
T_LONG_FLD      123
```

This format is used by **ud(8)** command line utility which allows to send arbitrary buffer to specified service.

Chapter 3

RETURN VALUE

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

Chapter 4

ERRORS

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

BALIGNERR Corrupted buffer or pointing to not aligned memory area.

BNOTFLD Buffer not fielded, not correctly allocated or corrupted.

BEINVAL *p_readf* is NULL.

BSYNTAX Missing tab between field id or missing newline.

BBADNAME Field not found in field table.

Chapter 5

EXAMPLE

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

Chapter 6

BUGS

Report bugs to support@mavimax.com

Chapter 7

SEE ALSO

Bextread(3) Bfprint(3) Bprint(3) Bread(3) Bwrite(3) ud(8)

Chapter 8

COPYING

© Mavimax, Ltd