

CBVGET(3)

REVISION HISTORY

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Chapter 1

SYNOPSIS

```
#include <ubf.h>
```

```
int CBvget(char *cstruct, char *view, char *cname, BFLDOCC occ, char *buf, BFLDLEN *len, int usrtype, long flags);
```

```
Link with -lubf -lnstd -lm -lpthread
```

Chapter 2

DESCRIPTION

Function is used to get field data dynamically from VIEW buffer. *cstruct* is pointer to C structure instance (object), *view* is name of the VIEW (must match the instance of the object), *occ* is field array occurrence, if field is not an array or first array element must be read, then use *occ=0*. *buf* is buffer where to output the data. *len* is used on both directions, on **input** it is used for indicating the length of the bytes for the target buffer (*buf*). If the data is larger than *len* indicated, then error **BNOSPACE** is returned. Then *len* is optional. If set to **NULL**, then no such checks are made, and it is assumed that buffer length is sufficient to store the data. *len* is used only for **BFLD_STRING** and **BFLD_CARRAY** fields. On output *len* (if not **NULL**), indicates the length of data loaded in *buf*. Indicated in bytes. *usrtype* is user type indicating the data type of the *buf*, if types are different, the automatic data conversion is performed. *flags* is either set to 0 in which case data is returned as is in the VIEW, does not matter if it matches the **NULL** value specified in VIEW file or not, the exact value is returned. If flag **BVACCESS_NOTNULL** is specified, then if value in field matches **NULL** column in view file, then error **BNOTPRES** is returned. **BNOTPRES** can be returned in case if *C* flag was set in view file, and the count indicator is set to less than occurrence specified.

Chapter 3

RETURN VALUE

On success, **CBvget()** 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, stored in thread local storage (TLS).

BEINVAL *view*, *cstruct* or *buf* is NULL. *view* or *cname* is empty string (first byte 0x00). Or occurrence is out of bounds of the array declaration.

BBADVIEW invalid view name (not found in view file).

BNOCNAME field name (*cname*) not found in view structure.

BNOSPACE No space in *buf*.

BMALLOC Failed to allocate type conversion buffer.

BNOTPRES Field not present (in case field value matches NULL in view file and **BVACCESS_NOTNULL** is set or count (C_) field is less than occurrence requested.

Chapter 5

EXAMPLE

See `atmitest/test040_typedview/vaccget.c` for sample code.

Chapter 6

BUGS

Report bugs to support@mavimax.com

Chapter 7

SEE ALSO

CBvchg(3) Bvnext(3) Bvsetoccur(3)

Chapter 8

COPYING

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