

Enduro/X Core - Bug #794

ubf user type convert functions might core dump on doubles which representation is larger than 63 symbols

11/10/2022 10:00 PM - Lauris

Status: Closed	Start date: 11/10/2022
Priority: High (Code 3)	Due date:
Assignee:	% Done: 100%
Category:	Estimated time: 0.00 hour
Target version:	
Description	
<p>CB* series of functions as well Bprint might cause core dump, in case if BFLD_FLOAT or BFLD_DOUBLE fields string representation takes more than 63 symbols. Mainly this affects vast numbers, as places after the comma are limited to 5 (for float) and 6 (for doubles).</p> <p>Issue is related with temporary space for type conversion which currently is 64 (CF_TEMP_BUF_MAX) and that can make macros like:</p> <pre>#define CONV_TO_STRING(X, C) \ if (CNV_DIR_OUT==cnv_dir && NULL!=out_len)\ {\ char tmp[CF_TEMP_BUF_MAX+1];\ sprintf(tmp, X, (C)*ptr);\ len = strlen(tmp)+1; /* Including EOS! */\ if (*out_len<len)\ {\ ndr_x_Bset_error_fmt(BNOSPACE, "data size: %d specified: %d", len, *out_len);\ return NULL;\ }\ else\ {\ strcpy(output_buf, tmp);\ }\ }\ else\ {\ /* In case if converting in, we have space for trailing EOS! */\ sprintf(output_buf, X, (C)*ptr);\ if (NULL!=out_len) /* In case if we really need it! */\ len = strlen(output_buf)+1;\ }\ if (NULL!=out_len)\ *out_len = len;</pre> <p>to overflow the buffer.</p>	

History

#1 - 11/10/2022 10:03 PM - Lauris

- Description updated

#2 - 11/13/2022 12:45 AM - Lauris

- Priority changed from Normal (Code 4) to High (Code 3)

Release notes

Enduro/X UBF library has been updated, to handle **BFLD_FLOAT** and **BFLD_DOUBLE** fields more safely and accurately in case the value goes beyond 63 digits before the comma (i.e. major unit). This affects CBchg(), Bprint(), Bboolev(), and related functions.

Available from Enduro/X release 7.0.50+, 7.5.38+, 8.0.8+.

#3 - 11/13/2022 12:45 AM - Lauris

- *Status changed from New to In Progress*
- *% Done changed from 0 to 100*

#4 - 11/13/2022 12:45 AM - Lauris

- *Status changed from In Progress to Closed*