



Xfig Tickets

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#77 global-buffer-overflow in shade_or_tint_name_after_declare_color at

genpstricks.c:1135

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Milestone: fig2dev Updated: 2020-12-21 Created: 2019-12-28 Creator: Suhwan Song Private: No

I found a global-buffer-overflow in shade_or_tint_name_after_declare_color at genpstricks.c:1135 Please run following command to reproduce it,

fig2dev -L pstricks \$PoC

ASAN LOG

```
Invalid color number -1674115757 at line 37, using default color.
An open polygon at line 38 - close it.
```

==22079==ERROR: AddressSanitizer: global-buffer-overflow on address 0x00000005a81c at pc 0x READ of size 4 at 0x000000c5a81c thread TO

- #0.0x80aeb4 in shade or tint name after declare color $\frac{home}{tmp/mcj-fig2dev}$
- #1 0x80aeb4 in format options /home/tmp/mcj-fig2dev/fig2dev/dev/genpstricks.c:1859
- #2 0x7fa81d in genpstrx line /home/tmp/mcj-fig2dev/fig2dev/dev/genpstricks.c:2270:7
- #3 0x54b8bb in gendev objects /home/tmp/mcj-fig2dev/fig2dev/fig2dev.c:1003:6
- #4 0x54b8bb in main /home/tmp/mcj-fig2dev/fig2dev/fig2dev.c:480
- #5 0x7ff8beecdb96 in __libc_start_main /build/glibc-OTsEL5/glibc-2.27/csu/../csu/libc-s #6 0x4lb3a9 in _start (/home/tmp/fig2dev+0x4lb3a9)

0x000000c5a81c is located 4 bytes to the left of global variable 'color_table' defined in 0x00000005a81c is located 44 bytes to the right of global variable 'dev pstricks' defined i SUMMARY: AddressSanitizer: global-buffer-overflow /home/tmp/mcj-fig2dev/fig2dev/dev/genpstr Shadow bytes around the buggy address:

0x0000801834e0: f9 f9 f9 f9 04 f9 f9 f9 f9 f9 f9 f0 00 f9 f9 0x0000801834f0: f9 f9 f9 f9 00 00 00 00 00 00 00 00 00 f9 f9 =>0x000080183500: f9 f9 f9[f9]00 00 00 00 00 00 00 00 00 00 00

Shadow byte legend (one shadow byte represents 8 application bytes):

Addressable: 0.0

Partially addressable: 01 02 03 04 05 06 07 Heap left redzone: fa Freed heap region: Stack left redzone: Stack mid redzone: Stack right redzone: f3 Stack after return: Stack use after scope: f8 Global redzone: Global init order: Poisoned by user: £7 Container overflow: fc Array cookie: Intra object redzone: hh ASan internal: fe Left alloca redzone:

Right alloca redzone: ==22079==ABORTING

fig2dev Version 3.2.7b

1 Attachments

id:000128,sig:06,src:000147,op:havoc,rep:2

Discussion



Dr. Werner Fink - 2020-01-27

Seems that the default color handling from dev/gentikz.c is simply missed in dev/genpstricks.c hence the offset in color_table interferes with dev_pstricks



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