



Xfig Tickets

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#64 global-buffer-overflow in setfigfont() function 3 Milestone: xfig Status: closed Owner: nobody Labels: None Updated: 2020-12-21 Created: 2019-12-12 Creator: Suhwan Song Private: No I found a global-buffer-overflow in setfigfont() function at genepic.c:1239 Please run following command to reproduce it, fig2dev -L eepic \$PoC Here's log =16081==ERROR: AddressSanitizer: global-buffer-overflow on address 0x55aa8f20b5f8 at pc 0x READ of size 8 at 0x55aa8f20b5f8 thread TO #0 0x55aa8ee6a135 in setfigfont fig2dev-3.2.7b/fig2dev/dev/genepic.c:1239 #1 0x55aa8ee6a9f5 in genepic text fig2dev-3.2.7b/fig2dev/dev/genepic.c:1312 #2 0x55aa8ee1ea3f in gendev_objects fig2dev-3.2.7b/fig2dev/fig2dev.c:1003 #3 0x55aa8ee1d2bf in main fig2dev-3.2.7b/fig2dev/fig2dev.c:480 #4 0x7f1a35038b96 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x21b96) #5 0x55aa8ee0d979 in start (fig2dev-3.2.7b+0x6e979) 0x55aa8f20b5f8 is located 40 bytes to the right of global variable 'texfontseries' defined 0x55aa8f20b5f8 is located 8 bytes to the left of global variable 'texfontshape' defined in SUMMARY: AddressSanitizer: global-buffer-overflow fig2dev-3.2.7b/fig2dev/dev/genepic.c:1239 Shadow bytes around the buggy address: 0x0ab5dle396a0: 00 04 f9 f9 f9 f9 f9 f9 00 00 00 00 00 f9 f9 =>0x0ab5dle396b0: f9 f9 f9 f9 00 00 00 00 00 f9 f9 f9 f9 f9[f9] 0x0ab5dle396c0: 00 00 00 00 00 f9 f9 f9 f9 f9 00 00 00 00 0x0ab5dle396d0: 00 00 f9 f9 f9 f9 f9 f9 00 00 00 00 00 00 00 Shadow byte legend (one shadow byte represents 8 application bytes): Partially addressable: 01 02 03 04 05 06 07 Heap left redzone: Freed heap region: fd Stack left redzone: Stack mid redzone: f2 Stack right redzone: Stack after return: Stack use after scope: Global redzone: f9 Global init order: Poisoned by user: £7 Container overflow: fc Array cookie: ac Intra object redzone: ASan internal: fe Left alloca redzone: Right alloca redzone: ==16081==ABORTING fig2dev Version 3.2.7b

I also tested this in git Commit $\underline{[3065ab]}$ and can reproduce it.

1 Attachments

id:000037,sig:06,src:000306,op:havoc,rep:2

Related

Commit: [3065ab]

Discussion



Dr. Werner Fink - 2020-01-29

Seems that the fix for CVE-2019-19797 with 41b9bb838a3d544539f6e68aa4f87d70ef7d45ce does mask the original error



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