

heap-buffer-overflow exists in the function bit_calc_CRC in bits.c #484



Assignees

Labels bug fuzzing invalid CVE

cxlzff commented on Jun 6

system info

Ubuntu x86_64, clang 6.0, dwg2dxf(0.12.4.4608)

Command line

./programs/dwg2dxf -b -m @@ -o /dev/null

AddressSanitizer output

==8982==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x616000000592 at pc 0x0000005289e1 bp 0x7fffffffca80 sp 0x7fffffffca78

READ of size 1 at 0x616000000592 thread T0

#0 0x5289e0 in bit_calc_CRC /testcase/libredwg/src/bits.c:3257:29

- #1 0x7059b1 in decode_preR13 /testcase/libredwg/src/decode_r11.c:760:14
- #2 0x53245a in dwg_decode /testcase/libredwg/src/decode.c:209:23
- #3 0x50d759 in dwg_read_file /testcase/libredwg/src/dwg.c:254:11
- #4 0x50c454 in main /testcase/libredwg/programs/dwg2dxf.c:258:15
- #5 0x7ffff6e22c86 in __libc_start_main /build/glibc-CVJwZb/glibc-2.27/csu/../csu/libc-start.c:310
- #6 0x419ee9 in _start (/testcase/libredwg/programs/dwg2dxf+0x419ee9)

0x616000000592 is located 0 bytes to the right of 530-byte region [0x616000000380,0x616000000592) allocated by thread T0 here:

#0 0x4d2750 in calloc /fuzzer/build/llvm_tools/llvm-4.0.0.src/projects/compiler-

rt/lib/asan/asan_malloc_linux.cc:74

- #1 0x50cdd0 in dat_read_file /testcase/libredwg/src/dwg.c:91:33
- #2 0x50d708 in dwg_read_file /testcase/libredwg/src/dwg.c:247:15
- #3 0x50c454 in main /testcase/libredwg/programs/dwg2dxf.c:258:15
- #4 0x7ffff6e22c86 in __libc_start_main /build/glibc-CVJwZb/glibc-2.27/csu/../csu/libc-start.c:310

SUMMARY: AddressSanitizer: heap-buffer-overflow /testcase/libredwg/src/bits.c:3257:29 in bit_calc_CRC

Shadow bytes around the buggy address:

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

Addressable: 00

Partially addressable: 01 02 03 04 05 06 07

Heap left redzone: fa Freed heap region: fd Stack left redzone: f1 Stack mid redzone: f2 Stack right redzone: f3 Stack after return: f5 Stack use after scope: f8

Global redzone: f9 Global init order: f6 Poisoned by user: f7 Container overflow: fc

Array cookie: ac

Intra object redzone: bb

ASan internal: fe

Left alloca redzone: ca Right alloca redzone: cb ==8982==ABORTING

poc

https://gitee.com/cxlzff/fuzz-poc/raw/master/libredwg/bit_calc_CRC_bof



R rurban self-assigned this on Jun 7

abergmann commented on Jun 24

CVE-2022-33026 was assigned to this issue.

rurban commented on Jun 24

Contributor

Invalid CVE, not repro in the latest release 0.12.5.

The tested version is experimental and preR13 DWG's lead to:

Reading DWG file ../test/issues/gh484/bit_calc_CRC_bof

ERROR: This version of LibreDWG is only capable of decoding version r13-r2018 (code: AC1012-

AC1032) DWG files.

We don't decode many entities and no blocks yet.

ERROR: DWG too small 529

ERROR: Failed to decode file: ../test/issues/gh484/bit_calc_CRC_bof 0x800

READ ERROR 0x800

rurban added the invalid CVE label on Jun 24

Assignees



Labels

bug fuzzing invalid CVE

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

3 participants





