

# heap-use-after-free exists in the function decode\_preR13\_section in decode\_r11.c #487

**Open** cxlzff opened this issue on Jun  $6 \cdot 2$  comments

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

==8989==ERROR: AddressSanitizer: heap-use-after-free on address 0x7fffff7e35838 at pc 0x0000007106ca bp 0x7fffffffc8b0 sp 0x7fffffffc8a8

READ of size 8 at 0x7ffff7e35838 thread T0

#0 0x7106c9 in decode\_preR13\_section /testcase/libredwg/src/decode\_r11.c:339:35

- #1 0x705d0a in decode\_preR13 /testcase/libredwg/src/decode\_r11.c:830:12
- #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)

0x7ffff7e35838 is located 56 bytes inside of 172032-byte region [0x7ffff7e35800,0x7ffff7e5f800) freed by thread T0 here:

#0 0x4d2968 in realloc /fuzzer/build/llvm\_tools/llvm-4.0.0.src/projects/compiler-

rt/lib/asan/asan\_malloc\_linux.cc:79

#1 0x5a05b5 in dwg\_add\_object /testcase/libredwg/src/decode.c:4730:35

previously 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 0x5a0465 in dwg\_add\_object /testcase/libredwg/src/decode.c:4719:35

SUMMARY: AddressSanitizer: heap-use-after-free /testcase/libredwg/src/decode\_r11.c:339:35 in

decode\_preR13\_section

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 ==8989==ABORTING

## https://gitee.com/cxlzff/fuzz-poc/raw/master/libredwg/decode\_preR13\_uaf



R rurban self-assigned this on Jun 7

abergmann commented on Jun 24

CVE-2022-33025 was assigned to this issue.

rurban commented on Jun 24 • edited •

Contributor

Hello? CVE's to unreleased experimental non-working code?

Invalid CVE, not repro in the latest release 0.12.5. decoding preR13 DWG's was never released.

valid 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

