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A heap overflow in bits.c:1424 #261



⊙ Closed seviezhou opened this issue on Aug 2, 2020 · 1 comment

Assignees bug fuzzing Labels ф 0.11

seviezhou commented on Aug 2, 2020

System info

Ubuntu X64, gcc (Ubuntu 5.5.0-12ubuntu1), dwg2dxf (latest master 39ef943)

Configure

CFLAGS="-g -fsanitize=address" LDFLAGS="-fsanitize=address" ./configure

Command line

./programs/dwg2dxf -b -m ./SEGV-check_POLYLINE_handles-decode-5110 -o /dev/null

AddressSanitizer output

```
==65289==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x62c0000381ff at pc 0x7fc1be68a945 bp 0x7fff3419f990 sp 0x7fff3419f138
READ of size 6 at 0x62c0000381ff thread T0
    #0 0x7fc1be68a944 in _asan_memcpy (/usr/lib/x86_64-linux-gnu/libasan.so.2+0x8c944) #1 0x5588916f116f in memcpy /usr/include/x86_64-linux-gnu/bits/string_fortified.h:34
    \verb|#2 0x5588916f116f in bit\_read\_fixed /home/seviezhou/libredwg/src/bits.c:1424|\\
    #3 0x558891715678 in acds_private /home/seviezhou/libredwg/src/acds.spec:111
   #4 0x5588917b3161 in read_2004_section_acds /home/seviezhou/libredwg/src/decode.c:3437
#5 0x5588917b3161 in decode_R2004 /home/seviezhou/libredwg/src/decode.c:3694
#6 0x5588917bf646 in dwg_decode /home/seviezhou/libredwg/src/decode.c:242
    #7 0x5588916b89fc in dwg_read_file /home/seviezhou/libredwg/src/dwg.c:251
    #8 0x5588916b5e12 in main /home/seviezhou/libredwg/programs/dwg2dxf.c:258 #9 0x7fc1bde90b96 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x21b96)
    #10 0x5588916b6d69 in _start (/home/seviezhou/libredwg/programs/dwg2dxf+0xa88d69)
0x62c0000381ff is located 1 bytes to the left of 29696-byte region [0x62c000038200,0x62c00003f600)
allocated by thread T0 here:
#0 0x7fc1be6967aa in __interceptor_calloc (/usr/lib/x86_64-linux-gnu/libasan.so.2+0x987aa)
    #1 0x5588917211c4 in read_2004_compressed_section /home/seviezhou/libredwg/src/decode.c:2432
    #2 0x5588922c13aa (/home/seviezhou/libredwg/programs/dwg2dxf+0x16933aa)
SUMMARY: AddressSanitizer: heap-buffer-overflow ??:0 __asan_memcpy
Shadow byte legend (one shadow byte represents 8 application bytes):
  Addressable:
  Partially addressable: 01 02 03 04 05 06 07
  Heap left redzone:
 Heap right redzone:
Freed heap region:
  Stack left redzone:
  Stack mid redzone:
  Stack right redzone:
  Stack partial redzone:
Stack after return:
  Stack use after scope:
 Global redzone:
 Global init order:
  Poisoned by user:
 Container overflow:
Intra object redzone:
ASan internal:
==65289==ABORTING
```

POC

heap-overflow-bit_read_fixed-bits-1424.zip

