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# Heap overflow due to incomplete fix for issues #255 #258

⊙ Closed seviezhou opened this issue on Aug 1, 2020 · 0 comments

Assignees bug fuzzing Labels ф O.11

seviezhou commented on Aug 1, 2020

### System info

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

#### Configure

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

#### Command line

./programs/dwgbmp ./heap-overflow-bit\_wcs2nlen-bit-1636

## AddressSanitizer output

==23940==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x61600000ec80 at pc 0x558b22fdc723 bp 0x7ffe585f6d40 sp 0x7ffe585f6d30 READ of size 2 at 0x61600000ec80 thread T0 #0 0x558b22fdc722 in bit\_wcs2nlen /home/seviezhou/libredwg/src/bits.c:1636 #1 0x558b22c13540 in dwg\_decode\_LTYPE\_private /home/seviezhou/libredwg/src/dwg.spec:3020 #2 0x558b2308fb8d in dwg\_decode\_LTYPE /home/seviezhou/libredwg/src/dwg.spec:2936 #3 0x558b2308fb8d in dwg\_decode\_add\_object /home/seviezhou/libredwg/src/decode.c:5669 #4 0x558b23097a03 in read\_2004\_section\_handles /home/seviezhou/libredwg/src/decode.c:2843 #5 0x558b23097a03 in decode\_R2004 /home/seviezhou/libredwg/src/decode.c:3680 #6 0x558b230a5a36 in dwg\_decode /home/seviezhou/libredwg/src/decode.c:242 #7 0x558b22f9edec in dwg\_read\_file /home/seviezhou/libredwg/src/dwg.c:251 #8 0x558b22f9ce28 in get\_bmp /home/seviezhou/libredwg/programs/dwgbmp.c:120 #9 0x558b22f9bed0 in main /home/seviezhou/libredwg/programs/dwgbmp.c:301 #10 0x7f0a4446eb96 in \_\_libc\_start\_main (/lib/x86\_64-linux-gnu/libc.so.6+0x21b96) #11 0x558b22f9c6a9 in \_start (/home/seviezhou/libredwg/programs/dwgbmp+0x4e76a9)  $0x61600000ec81 \ \, \text{is located 0 bytes to the right of 513-byte region [0x61600000ea80,0x61600000ec81) } \\ allocated by thread T0 here:$ #0 0x7f0a44c747aa in \_\_interceptor\_calloc (/usr/lib/x86\_64-linux-gnu/libasan.so.2+0x987aa) #1 0x558b22fd7de8 in bit\_read\_TF /home/seviezhou/libredwg/src/bits.c:1444 SUMMARY: AddressSanitizer: heap-buffer-overflow /home/seviezhou/libredwg/src/bits.c:1636 bit\_wcs2nlen 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: ==23940==ABORTING

POC

heap-overflow-bit\_wcs2nlen-bit-1636.zip

0	seviezhou changed the title Incomplete fix for issues #255 Heap overflow due to incomplete fix for issues #255 on Aug 1, 2020
А	Purban self-assigned this on Aug 2, 2020
$\Diamond$	Purban added bug fuzzing labels on Aug 2, 2020
中	Purban added this to the 0.11 milestone on Aug 2, 2020
Ç	rurban added a commit that referenced this issue on Aug 2, 2020
	♠ fixup LTYPE.dashes overflows ··· ★ dac8fcc
	(a) rurban closed this as completed on Aug 2, 2020
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No brai	nches or pull requests
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