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heap-buffer-overflow exists in the function readU8 in lib/ttf.c

#188

① Open

Freewind9 opened this issue on Jul 28 · 0 comments

```
Freewind9 commented on Jul 28 • edited •
system info
Ubuntu x86_64, clang 10.0, ttftool (latest master 772e55a)
Command line
./src/ttftool poc
  ==26368==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x603000000086 at pc
  0x0000004edfd2 bp 0x7ffe607a9f10 sp 0x7ffe607a9f08
  READ of size 1 at 0x603000000086 thread T0
     #0 0x4edfd1 in readU8 /project/models/swftools/lib/ttf.c:83:12
     #1 0x4edfd1 in os2_parse /project/models/swftools/lib/ttf.c:467:30
     #2 0x4edfd1 in ttf_parse_tables /project/models/swftools/lib/ttf.c:1849:13
     #3 0x4edfd1 in ttf_load /project/models/swftools/lib/ttf.c:2180:9
     #4 0x51054c in ttf_open /project/models/swftools/lib/ttf.c:2435:17
     #5 0x4c51da in main /project/models/swftools/src/ttftool.c:91:19
     #6 0x7f84d73a1082 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x24082)
     #7 0x41c43d in _start (/project/models/swftools/src/ttftool+0x41c43d)
  0x603000000086 is located 0 bytes to the right of 22-byte region [0x603000000070,0x603000000086)
  allocated by thread T0 here:
     #0 0x494b7d in malloc (/project/models/swftools/src/ttftool+0x494b7d)
     #1 0x4e083a in ttf_load /project/models/swftools/lib/ttf.c:2160:15
     #2 0x51054c in ttf_open /project/models/swftools/lib/ttf.c:2435:17
     #3 0x7f84d73a1082 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x24082)
  SUMMARY: AddressSanitizer: heap-buffer-overflow /project/models/swftools/lib/ttf.c:83:12 in readU8
  Shadow bytes around the buggy address:
   0x0c067fff8000: fa fa 00 00 00 04 fa fa 00 00 00 06 fa fa 00 00
  =>0x0c067fff8010:[06]fa fa fa 00 00 06 fa fa fa fd fd fd fd fa fa
```

0x0c067fff8020: 00 00 02 fa fa fa 00 00 00 02 fa fa fa fa fa 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 Shadow gap: CC ==26368==ABORTING poc

Assignees No one assigned Labels None yet Projects None yet Milestone No milestone Development No branches or pull requests

