New issue Jump to bottom

heap-use-after-free exists in the function grow_unicode in /lib/ttf.c #190

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
  ______
  ==26408==ERROR: AddressSanitizer: heap-use-after-free on address 0x60300000017c at pc
  0x0000004942df bp 0x7ffdd79c0b40 sp 0x7ffdd79c0308
  WRITE of size 48 at 0x60300000017c thread T0
      #0 0x4942de in __asan_memset (/project/models/swftools/src/ttftool+0x4942de)
      #1 0x4cd29a in memset /usr/include/x86_64-linux-gnu/bits/string_fortified.h:71:10
      #2 0x4cd29a in grow_unicode /project/models/swftools/lib/ttf.c:1235:2
      #3 0x4cd29a in cmap_parse /project/models/swftools/lib/ttf.c:1283:6
      #4 0x4eb056 in ttf_parse_tables /project/models/swftools/lib/ttf.c:1901:2
      #5 0x4eb056 in ttf_load /project/models/swftools/lib/ttf.c:2180:9
      #6 0x51054c in ttf_open /project/models/swftools/lib/ttf.c:2435:17
      #7 0x4c51da in main /project/models/swftools/src/ttftool.c:91:19
      #8 0x7fe8b7a25082 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x24082)
      #9 0x41c43d in _start (/project/models/swftools/src/ttftool+0x41c43d)
  0x60300000017c is located 0 bytes to the right of 28-byte region [0x603000000160,0x60300000017c)
  freed by thread T0 here:
      #0 0x494e99 in realloc (/project/models/swftools/src/ttftool+0x494e99)
      #1 0x517e2d in rfx_realloc /project/models/swftools/lib/mem.c:50:11
  previously allocated by thread T0 here:
      #0 0x494cf2 in calloc (/project/models/swftools/src/ttftool+0x494cf2)
      #1 0x518011 in rfx_calloc /project/models/swftools/lib/mem.c:69:9
  SUMMARY: AddressSanitizer: heap-use-after-free (/project/models/swftools/src/ttftool+0x4942de) in
  __asan_memset
  Shadow bytes around the buggy address:
```

```
0x0c067fff8000: fa fa 00 00 00 04 fa fa 00 00 00 06 fa fa fd fd
  0x0c067fff8010: fd fa fa fd fd fd fd fa fa 00 00 02 fa fa fa
 =>0x0c067fff8020: 00 00 00 02 fa fa fd fd fd fa fa fd fd fd[fd]
  0x0c067fff8030: fa fa 00 00 04 fa fa fa fa 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
                   f2
  Stack mid redzone:
  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
 ==26408==ABORTING
poc
```

Assignees No one assigned Labels None yet Projects None yet Milestone

No milestone

No branches or pull requests

1 participant

