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assertion failure in stbtt_cff_get_index in stb_truetype.h #865



⊙ Closed sleicasper opened this issue on Jan 6, 2020 · 2 comments

Labels

1 stb_truetype

```
sleicasper commented on Jan 6, 2020
assertion failure in stbtt_cff_get_index can be triggered by user supplied file.
          static stbtt__buf stbtt__cff_get_index(stbtt__buf *b)
              start = b->cursor;
count = stbtt_buf_get16(b);
                  (count) {
  offsize = stbtt__buf_get8(b);
                   STBTT_assert(offsize >= 1 && offsize <= 4);
stbtt_buf_skip(b, offsize * count);
stbtt_buf_skip(b, stbtt_buf_get(b, offsize) - 1);
                        stbtt__buf_range(b, start, b->cursor - start);
poc.zip
result:
   #0 _GI_raise (sig=sig@entry=0x6) at ../sysdeps/unix/sysv/linux/raise.c:51
#1 0x00007ffff6e43801 in _GI_abort () at abort.c:79
#2 0x00007ffff6e3339a in _assert_fail_base (fmt=0x7ffff6fba7d8 "%s%s%s:%u: %s%sAssertion `%s' failed.\n%n",
          assertion=assertion@entry=0x5060a0 <.str> "offsize >= 1 && offsize <= 4", file=file@entry=0x505b40 <.str> "./SRC/stb_truetype.h", line=line@entry=0x48d,
  function=0x5062c0 __PRETTY_ENURTION_.stbtt_cff_get_index\"stbtt_buf stbtt_cff_get_index(stbtt_buf *)") at assent.c:92
#3 0x00007ffff6e34412 in _GI_assent_fail (assention=0x5060a0 <.str> "offsize >= 1 && offsize <= 4",
file=0x505040 <.str> "./SRC/stb_truetype.h", line=0x480,
function=0x5062c0 __PRETTY_ENURTION_.stbtt_cff_get_index> "stbtt_buf stbtt_cff_get_index(stbtt_buf *)")
          at assert.c:101
         0x00000000004e9fda in stbtt_cff_get_index (b=0x7fffffffd960) at ./SRC/stb_truetype.h:1165
    \begin{tabular}{ll} \#5 & 0x0000000004e0591 in stbtt\_InitFont\_internal (info=0x7fffffffelc0, data=0x629000000200 "OTTO", fontstart=0x0) \\ at ./SRC/stb\_truetype.h:1381 \\ \end{tabular} 
   #6 0x0000000004d71a3 in stbtt_InitFont (info=0x7fffffffe1c0, data=0x629000000200 "OTTO", offset=0x0)
   at ./SRC/stb_truetype.h:4771 #7 0x000000000000t2b29 in main (argc=0x2, argv=0x7fffffffe458) at ../fuzzsrc/ttfuzz.c:29
   #8 0x00007ffff6e24b97 in __lib__start_main (main=0x4e18f0 <main., argc=0x2, argv=0x7fffffffe458, init=<optimized out>, fini=<optimized out>, rtld_fini=<optimized out>, stack_end=0x7fffffffe448)
          at ../csu/libc-start.c:310
    #9 0x000000000041ad4a in _start ()
```

carnil commented on Jan 10, 2020 CVE-2020-6623 was assigned for this issue.

nothings added the 1stb_truetype label on Feb 1, 2020

nothings commented on Jul 4, 2021

Development

Owner

The documentation for the library was modified in 2020 to make clear it is intentionally insecure, and fixing issues like this is out of scope.

nothings closed this as completed on Jul 4, 2021

Assignees No one assigned Labels 1 stb_truetype Projects None yet Milestone No milestone

No branches or pull requests

3 participants



