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assertion failure in stbtt_cff_int in stb_truetype.h #864



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

1 stb_truetype Labels

sleicasper commented on Jan 6, 2020 assertion failure in stbtt_cff_int can be triggered by user supplied font file. tic stbtt uint32 stbtt cff int(stbtt buf *b) int b0 = stbtt__buf_get8(b); if (b0 >= 32 && b0 <= 246) else if (b0 >= 247 && b0 <= 250) else if (b0 >= 251 && b0 <= 254) else if (b0 == 28) else if (b0 == 29) STBTT_assert(0); return 0; (b0 - 247)*256 + stbtt__buf_get8(b) + 108; -(b0 - 251)*256 - stbtt__buf_get8(b) - 108; stbtt__buf_get16(b); stbtt__buf_get32(b); poc.zip result __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=0x505b00 <.str> "0", file=file@entry=0x505b40 <.str> "./SRC/stb_truetype.h", line=line@entry=0x49c, function=function@entry=0x5063c0 <__PRETTY_FUNCTION__.stbtt__cff_int> "stbtt__uint32 stbtt__cff_int(stbtt__buf *)") at assert.c:92 #3 0x00007ffff6e33412 in _GI__assert_fail (assertion=0x505b00 <.str> "0", file=0x505b00 <.str> "./SRC/stb_truetype.h", line=0x49c, function=0x5063c0 <_PRETTY_FUNCTION_.stbtt_cff_int> "stbtt_uint32 stbtt_cff_int(stbtt_buf *)") at assert.c:101 0x0000000004e7c73 in stbtt_cff_int (b=0x7fffffffd980) at ./SRC/stb_truetype.h:1180 #5 0x00000000004ea9e6 in stbtt_cff_skip_operand (b=0x7ffffffd980) at ./SRC/stb_truetype.h:1195
#6 0x00000000004ea430 in stbtt_dict_get (b=0x7ffffffd980, key=0x11) at ./SRC/stb_truetype.h:1205 #7 0x00000000004e9bc3 in stbtt_dict_get_ints (b=0x7fffffffd980, key=0x11, outcount=0x1, out=0x7fffffffd9d0) #8 0x0000000004e0924 in stbtt_InitFont_internal (info=0x7fffffffe1c0, data=0x629000000200 "OTTO", fontstart=0x0) at ./SRC/stb_truetype.h:1386 0x00000000004d71a3 in stbtt_InitFont (info=0x7fffffffe1c0, data=0x623000000200 "OTTO", offset=0x0) at ./SRC/stb_truetype.h:4771 #10 0x0000000004e1b29 in main (argc=0x2, argv=0x7fffffffe458) at ../fuzzsrc/ttfuzz.c:29 #11 0x000007ffff6e2db97 in _libc_start_main (main-0x4e18f0 cmain>, argc=0x2, argv=0x7ffffffffe458, init=coptimized out>, fini=coptimized out>, rtld_fini=coptimized out>, stack_end=0x7fffffffe448) at ../csu/libc-start.c:310 #12 0x000000000041ad4a in _start ()

carnil commented on Jan 10, 2020 CVE-2020-6617 was assigned for this issue.

Owner

nothings added the 1 stb_truetype label on Feb 1, 2020

nothings commented on Jul 4, 2021

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

No one assigned

Projects

Milestone

Development

No branches or pull requests

3 participants

