

New issue

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assertion failure in stbtt_buf_seek in stb_truetype.h #863

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_buf_seek can be triggered by user supplied font file.

```
1115 static void stbtt_buf_seek(stbtt_buf *b, int o)
1116 {
1117     STBTT_assert(!(o > b->size || o < 0));
1118     b->cursor = (o > b->size || o < 0) ? b->size : o;
1119 }
1120
```

poc:

[poc.zip](#)

result:

```
gdb-peda$ bt
#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=0x5060e0 <str> "! (o > b->size || o < 0)",
file=file@entry=0x505b40 <str> "./SRC/stb_truetype.h", line=line@entry=0x45d,
function=function@entry=0x506120 <__PRETTY_FUNCTION___.stbtt_buf_seek> "void stbtt_buf_seek(stbtt_buf *, int)")
at assert.c:92
#3  0x00007ffff6e33412 in __GI__assert_fail (assertion=0x5060e0 <str> "! (o > b->size || o < 0)",
file=0x505b40 <str> "./SRC/stb_truetype.h", line=0x45d,
function=0x506120 <__PRETTY_FUNCTION___.stbtt_buf_seek> "void stbtt_buf_seek(stbtt_buf *, int)")
at assert.c:101
#4  0x00000000004e7d2f in stbtt_buf_seek (b=0x7fffffd960, o=0xfffff80) at ./SRC/stb_truetype.h:1117
#5  0x00000000004e1078 in stbtt_InitFont_internal (info=0x7fffff1c0, data=0x62900000200 "OTTO", fontstart=0x0)
at ./SRC/stb_truetype.h:1404
#6  0x00000000004d71a3 in stbtt_InitFont (info=0x7fffff1c0, data=0x62900000200 "OTTO", offset=0x0)
at ./SRC/stb_truetype.h:4771
#7  0x00000000004e1b29 in main (argc=0x2, argv=0x7fffff458) at ../fuzzsrc/ttfuzz.c:29
#8  0x00007ffff6e24b97 in __libc_start_main (main=0x4e18f0 <main>, argc=0x2, argv=0x7fffff458,
init=<optimized out>, fini=<optimized out>, rtd_fini=<optimized out>, stack_end=0x7fffff448)
at ./csu/libc-start.c:310
#9  0x000000000041ad4a in _start ()
```

carnil commented on Jan 10, 2020

[CVE-2020-6619](#) was assigned for this issue.

nothings added the 1 stb_truetype label on Feb 1, 2020

nothings commented on Jul 4, 2021

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

Development
No branches or pull requests

3 participants

