



## Xfig Tickets

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### #59 stack-buffer-overflow in read\_textobject() function



Milestone: [xfig](#) Status: closed Owner: nobody Labels: None  
Updated: 2020-12-21 Created: 2019-12-12 Creator: [Suhwan Song](#) Private: No

Hi,  
I found a stack-buffer-overflow in read\_textobject() function at read.c:1378  
Please run following command to reproduce it,

```
fig2dev -L box $PoC
```

#### Here's log

```
==13709==ERROR: AddressSanitizer: stack-buffer-overflow on address 0x7ffe53f28e0e at pc 0x7f9abdd81b96
READ of size 1 at 0x7ffe53f28e0e thread T0
#0 0x7f9abe98da68 (/usr/lib/x86_64-linux-gnu/libasan.so.4+0x5aa68)
#1 0x558cfdd2cc46 in read_textobject fig2dev-3.2.7b/fig2dev/read.c:1378
#2 0x558cfdd25d9d in read_compoundobject fig2dev-3.2.7b/fig2dev/read.c:711
#3 0x558cfdd235f0 in read_objects fig2dev-3.2.7b/fig2dev/read.c:440
#4 0x558cfdd221d3 in readfp_fig fig2dev-3.2.7b/fig2dev/read.c:172
#5 0x558cfdd220a9 in read_fig fig2dev-3.2.7b/fig2dev/read.c:142
#6 0x558cfdd19ef3 in main fig2dev-3.2.7b/fig2dev/fig2dev.c:422
#7 0x7f9abdd81b96 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x21b96)
#8 0x558cfdd0a979 in _start (fig2dev-3.2.7b+0x6e979)

Address 0x7ffe53f28e0e is located in stack of thread T0 at offset 8446 in frame
#0 0x558cfdd2c280 in read_textobject fig2dev-3.2.7b/fig2dev/read.c:1304

This frame has 5 object(s):
[32, 36) 'num'
[96, 104) 't'
[160, 162) 'junk'
[224, 8416) 's'
[8448, 16640) 's_temp' <== Memory access at offset 8446 underflows this variable
HINT: this may be a false positive if your program uses some custom stack unwind mechanism (
(longjmp and C++ exceptions *are* supported)
SUMMARY: AddressSanitizer: stack-buffer-overflow (/usr/lib/x86_64-linux-gnu/libasan.so.4+0x5aa68)
Shadow bytes around the buggy address:
 0x10004a7dd170: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x10004a7dd180: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x10004a7dd190: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x10004a7dd1a0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x10004a7dd1b0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 f2 f2
=>0x10004a7dd1c0: f2[f2]00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x10004a7dd1d0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x10004a7dd1e0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x10004a7dd1f0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x10004a7dd200: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x10004a7dd210: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
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
==13709==ABORTING
```

fig2dev Version 3.2.7b  
I also tested this in git master and can reproduce it.

#### 1 Attachments

[id:000004,sig:06,src:000000,op:havoc,rep:4](#)

## Discussion



tkl - 2020-01-06

- status: open --> pending



tkl - 2020-01-06

Fixed with commit [\[41b9bb\]](#).

### Related

[Commit: \[41b9bb\]](#)



tkl - 2020-12-21

- status: pending --> closed
- xfig / fig2dev: fig2dev --> xfig

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