



Optical Character Recognition (GOCR) Bugs

Status: Alpha
Brought to you by: joerg10

#42 A stack-buffer-overflow in pgm2asc.c:2648:39



Status: open Owner: nobody Labels: None
Priority: 5
Updated: 2020-08-03 Created: 2020-08-03 Creator: [zhouan](#) Private: No

System info

Ubuntu X64, gcc (Ubuntu 5.5.0-12ubuntu1), gocr (latest jocr-dev 0.53-20200802)

Configure

CFLAGS="-g -fsanitize=address" LDFLAGS="-fsanitize=address" ./configure

Command line

./src/gocr -m 4 ./stack-overflow-try_to_divide_boxes-pgm2asc-2648

AddressSanitizer output

```
=====
==35440==ERROR: AddressSanitizer: stack-buffer-overflow on address 0x7ffea63b3fc at pc 0x0000000000000000
READ of size 4 at 0x7ffea63b3fc thread T0
#0 0x53d701 in try_to_divide_boxes /home/sezvzhou/jocr/src/pgm2asc.c:2648:39
#1 0x54a14d in pgm2asc /home/sezvzhou/jocr/src/pgm2asc.c:3415:3
#2 0x518776 in main /home/sezvzhou/jocr/src/gocr.c:350:5
#3 0x7fad0439d83f in __libc_start_main /build/glibc-e6zv40/glibc-2.23/csu/../csu/libc-start.c:308
#4 0x41a768 in _start (/home/sezvzhou/jocr/src/gocr+0x41a768)

Address 0x7ffea63b3fc is located in stack of thread T0 at offset 3100 in frame
#0 0x5388df in try_to_divide_boxes /home/sezvzhou/jocr/src/pgm2asc.c:2377

This frame has 8 object(s):
[32, 1408) 'boxa' (line 2378)
[1536, 2912) 'boxb' (line 2378)
[3040, 3072) 'a2' (line 2380)
[3104, 3136) 'ci' (line 2383) <== Memory access at offset 3100 underflows this variable
[3168, 3232) 's1' (line 2383)
[3264, 3300) 'xi' (line 2386)
[3344, 3352) 'buf' (line 2438)
[3376, 3440) 'buf351' (line 2475)
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 /home/sezvzhou/jocr/src/pgm2asc.c:2648:39
Shadow bytes around the buggy address:
 0x1000554bf620: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x1000554bf630: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x1000554bf640: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x1000554bf650: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x1000554bf660: 00 00 00 00 00 00 00 00 f2 f2 f2 f2 f2 f2 f2
->0x1000554bf670: f2 f2 f2 f2 f2 f2 f2 f2 00 00 00 f2 f2 f2[f2]
 0x1000554bf680: 00 00 00 00 f2 f2 f2 f2 00 00 00 00 00 00 00
 0x1000554bf690: f2 f2 f2 f2 00 00 00 00 04 f2 f2 f2 f2 f8 f2
 0x1000554bf6a0: f2 f2 00 00 00 00 00 00 00 00 f3 f3 f3 f3 f3
 0x1000554bf6b0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x1000554bf6c0: 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
==35440==ABORTING
```

[stack-overflow-try to divide boxes-pgm2asc-2648.zip](#)

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