



Optical Character Recognition (GOCR) Bugs

Status: Alpha
Brought to you by: joerg10

#39 A stack-buffer-underflow in pgm2asc.c:1689:24



Status: open Owner: nobody Labels: [bug \(3\)](#)
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 @@

AddressSanitizer output

```
=====
==38065==ERROR: AddressSanitizer: stack-buffer-underflow on address 0x7ffe7647eb3c at pc 0x0000000000000000
READ of size 4 at 0x7ffe7647eb3c thread T0
#0 0x52ddfe in measure_pitch /home/sevierzhou/jocr/src/pgm2asc.c:1689:24
#1 0x549a9f in pgm2asc /home/sevierzhou/jocr/src/pgm2asc.c:3377:3
#2 0x518776 in main /home/sevierzhou/jocr/src/gocr.c:350:5
#3 0x7ff058f3083f in __libc_start_main /build/glibc-e6zv40/glibc-2.23/csu/../csu/libc-start.c:308
#4 0x41a768 in _start (/home/sevierzhou/jocr/src/gocr+0x41a768)

Address 0x7ffe7647eb3c is located in stack of thread T0 at offset 28 in frame
#0 0x529aaf in measure_pitch /home/sevierzhou/jocr/src/pgm2asc.c:1455

This frame has 1 object(s):
[32, 4128) 'pdists' (line 1456) <== Memory access at offset 28 underflows this variable
HINT: this may be a false positive if your program uses some custom stack unwind mechanism or
(longjmp and C++ exceptions *are* supported)
SUMMARY: AddressSanitizer: stack-buffer-underflow /home/sevierzhou/jocr/src/pgm2asc.c:1689:24
Shadow bytes around the buggy address:
 0x10004ec87d10: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x10004ec87d20: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x10004ec87d30: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x10004ec87d40: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x10004ec87d50: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
=>0x10004ec87d60: 00 00 00 00 f1 f1 f1[f1]00 00 00 00 00 00 00 00
 0x10004ec87d70: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x10004ec87d80: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x10004ec87d90: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x10004ec87da0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
 0x10004ec87db0: 00 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
==38065==ABORTING
```

1 Attachments

[stack-underflow-measure_pitch-pgm2asc-1689.zip](#)

Discussion

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