



Optical Character Recognition (GOCR) Bugs

Status: Alpha
Brought to you by: joerg10

#41 A use-after-free in pgm2asc.c:2817:39

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 ./use-after-free-context_correction-pgm2asc-2817

AddressSanitizer output

```
=====
==33563==ERROR: AddressSanitizer: heap-use-after-free on address 0x61a00001ea4 at pc 0x0000000000000000
READ of size 4 at 0x61a00001ea4 thread T0
#0 0x54552a in context_correction /home/seviezhou/AlphaFuzz/targets/jocr/src/pgm2asc.c:2817:39
#1 0x54a291 in pgm2asc /home/seviezhou/AlphaFuzz/targets/jocr/src/pgm2asc.c:3427:28
#2 0x518776 in main /home/seviezhou/AlphaFuzz/targets/jocr/src/gocr.c:350:5
#3 0x7f394175f83f in __libc_start_main /build/glibc-e6zv40/glibc-2.23/csu/../csu/libc-start.c:308
#4 0x41a768 in _start (/home/seviezhou/AlphaFuzz/targets/gocr/src/gocr+0x41a768)

0x61a00001ea4 is located 36 bytes inside of 1376-byte region [0x61a00001e80,0x61a000022e0)
freed by thread T0 here:
#0 0x4de7b8 in __interceptor_cfree.localalias.0 /home/seviezhou/llvm-6.0.0/projects/compiler-rt/lib/asan/asan_malloc_linux.cpp:100
#1 0x54c1a7 in free_box /home/seviezhou/AlphaFuzz/targets/jocr/src/box.c:122:3

previously allocated by thread T0 here:
#0 0x4de978 in __interceptor_malloc /home/seviezhou/llvm-6.0.0/projects/compiler-rt/lib/asan/asan_malloc_linux.cpp:100
#1 0x54bd2 in malloc_box /home/seviezhou/AlphaFuzz/targets/jocr/src/box.c:96:24

SUMMARY: AddressSanitizer: heap-use-after-free /home/seviezhou/AlphaFuzz/targets/jocr/src/pgm2asc.c:2817:39
Shadow bytes around the buggy address:
 0x0c347fff8380: fd fd fd fd fd fd fd fd fd fd fd fd fd fd fd
 0x0c347fff8390: fd fd fd fd fd fd fd fd fd fd fd fd fd fd fd
 0x0c347fff83a0: fd fd fd fd fd fd fd fd fd fd fd fd fd fd fd
 0x0c347fff83b0: fd fd fd fd fd fd fd fd fd fd fd fd fd fd fd
 0x0c347fff83c0: fa fa fa fa fa fa fa fa fa fa fa fa fa fa fa
=>0x0c347fff83d0: fd fd fd fd fd fd fd fd fd fd fd fd fd fd fd
 0x0c347fff83e0: fd fd fd fd fd fd fd fd fd fd fd fd fd fd fd
 0x0c347fff83f0: fd fd fd fd fd fd fd fd fd fd fd fd fd fd fd
 0x0c347fff8400: fd fd fd fd fd fd fd fd fd fd fd fd fd fd fd
 0x0c347fff8410: fd fd fd fd fd fd fd fd fd fd fd fd fd fd fd
 0x0c347fff8420: fd fd fd fd fd fd fd fd fd fd fd fd fd fd fd
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
==33563==ABORTING
```

1 Attachments

[use-after-free-context_correction-pgm2asc-2817.zip](#)

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