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[BUG] Divide by zero in img2txt #65

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kdsjZh opened this issue on Feb 24 · 3 comments

```
kdsjZh commented on Feb 24 • edited ▼
version: latest commit f42aa68
driver: src/img2txt
Environment: ubuntu 22.04, clang-12
step to reproduce:
  export CFLAGS="-fsanitize=address -g"
  export CC=clang
  ./bootstrap
  ./configure
  make -j8
  ./src/img2txt ./divide_by_0.seed
Sanitizer output:
  AddressSanitizer: DEADLYSIGNAL
  ______
  ==25214==ERROR: AddressSanitizer: FPE on unknown address 0x0000004d0433 (pc 0x0000004d0433 bp
  0x7fff1cb39010 sp 0x7fff1cb38ee0 T0)
      #0 0x4d0433 in main /benchmarks/libcaca/src/img2txt.c:183:42
      #1 0x7fa2270f9d8f (/lib/x86_64-linux-gnu/libc.so.6+0x2dd8f)
      #2 0x7fa2270f9e3f in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x2de3f)
      #3 0x421944 in _start (/benchmarks/libcaca/src/img2txt+0x421944)
  AddressSanitizer can not provide additional info.
  SUMMARY: AddressSanitizer: FPE /benchmarks/libcaca/src/img2txt.c:183:42 in main
  ==25214==ABORTING
#POC
divide_by_0.zip
```

##Credit
Han Zheng
NCNIPC of China
Hexhive

pterjan commented on Feb 25

Contributor

Thank you, reading the code it could happen when given a valid image of width 0 (probably the case here), but also with any image if passing -y 0.

jmoellers commented on Mar 14

How's this going to be fixed?

ladded a check for $i\rightarrow w$ and/or $i\rightarrow h$ being 0, issuing an error message ("image size is 0") and setting lines and cols to 0 (caca_set_canvas_size can handle this).

Obviously caca_export_canvas_to_memory then chokes on this but this is handled already. I only then also changed the format in the error message to format?format:"ansi".

kirotawa commented on Mar 15

CVE-2022-0856 was assigned to this issue - https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2022-0856

Assignees No one assigned
abels Ione yet
Projects None yet
Milestone No milestone
Development No branches or pull requests

