

New issue

[Jump to bottom](#)

SEGV on unknown address in function pngdetail. #177

✓ Closed yangfar opened this issue on Oct 21 · 2 comments

yangfar commented on Oct 21

Version

pngdetail by Lode Vandevenne
version: 20220717

Command

./pngdetail @@

Crash Output

AddressSanitizer:DEADLYSIGNAL

```
=====
==2262494==ERROR: AddressSanitizer: SEGV on unknown address 0x000000000003 (pc 0x00000004f43b4 bp
0x0000000000080 sp 0x7ffd35c4f320 T0)
==2262494==The signal is caused by a WRITE memory access.
==2262494==Hint: address points to the zero page.
#0 0x4f43b4 in readChunk_tRNS(LodePNGColorMode*, unsigned char const*, unsigned long)
/home/hjsz/fuzz_software/lodepng-master/lodepng.cpp:4406:65
#1 0x4f2716 in lodepng_inspect_chunk(LodePNGState*, unsigned long, unsigned char const*, unsigned long)
/home/hjsz/fuzz_software/lodepng-master/lodepng.cpp:4793:13
#2 0x5a39c0 in inspect_chunk_by_name(unsigned char const*, unsigned char const*, lodepng::State&, char
const*) /home/hjsz/fuzz_software/lodepng-master/pngdetail.cpp:155:10
#3 0x5a39c0 in Data::loadInspect() /home/hjsz/fuzz_software/lodepng-master/pngdetail.cpp:221:7
#4 0x591e19 in showHeaderInfo(Data&, Options const&) /home/hjsz/fuzz_software/lodepng-
master/pngdetail.cpp:1109:8
#5 0x59db24 in showInfos(Data&, Options const&) /home/hjsz/fuzz_software/lodepng-
master/pngdetail.cpp:1330:79
#6 0x5a12a6 in main /home/hjsz/fuzz_software/lodepng-master/pngdetail.cpp:1444:5
#7 0x7fd0de890082 in __libc_start_main /build/glibc-SzIz7B/glibc-2.31/csu/../csu/libc-start.c:308:16
#8 0x41d76d in _start (/home/hjsz/fuzz_software/lodepng-master/pngdetail+0x41d76d)
```

AddressSanitizer can not provide additional info.

SUMMARY: AddressSanitizer: SEGV /home/hjsz/fuzz_software/lodepng-master/lodepng.cpp:4406:65 in
readChunk_tRNS(LodePNGColorMode*, unsigned char const*, unsigned long)

==2262494==ABORTING

POC

[POC.zip](#)

Report of the Information Security Laboratory of Ocean University of China @OUC_ISLOUC
@OUC_Blue_Whale

Thanks for your time!

feliwir commented 18 days ago

@lvandeve this appears inside the nist database: <https://nvd.nist.gov/vuln/detail/CVE-2022-44081>

Could you maybe take a deeper look at this?


lvandeve commented 18 days ago • edited ▼

Owner

Thanks for discovering this issue and reporting! It's fixed with [997936fd2b45842031e4180d73d7880e381cf33f](#)

The issue was in the binary utility pngdetail.cpp instead of the library itself, and was due to not correctly checking all errors



 **lvandeve** closed this as completed 18 days ago

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

3 participants

