Crash on DecodePixelData #124



⊙ Closed) strongcourage opened this issue on Jul 7, 2019 · 0 comments

strongcourage commented on Jul 7, 2019 Hi. Our fuzzer found a crash on tinyexr (the latest commit 2a5eac4 on master). I use your command to compile tinyexr as mentioned in #101 (clang++ version 4.0.0, Ubuntu 16.04 64 bit). $PoC: https://github.com/strongcourage/PoCs/blob/master/tinyexr_2a5eac4/PoC_iw_DecodePixelData$ Command: test_tinyexr \$POC Valgrind says: ==4577== Invalid write of size 4 ==4577==
=4577==
Address 0xffffff4005ble960 is not stack'd, malloc'd or (recently) free'd ASAN says: $tinyexr.h: 10958: 48: runtime \ error: \ signed \ integer \ overflow: \ 2147483647 + 1 \ cannot \ be \ represented \ in \ type \ 'int' \ SUMMARY: AddressSanitizer: undefined-behavior \ tinyexr.h: 10958: 48 \ in$ tinyexr.h:10961:39: runtime error: signed integer overflow: -2147483648 - 2147483647 cannot be represented in type 'int' SUMMARY: AddressSanitizer: undefined-behavior tinyexr.h:10961:39 in ASAN: DEADLYSTGNAL ==31934==ERROR: AddressSanitizer: SEGV on unknown address 0x6070000001c0 (pc 0x00000005de035 bp 0x7ffe6323ce30 sp 0x7ffe6323c380 T0) ==31934==The signal is caused by a WRITE memory access. asan/./tinyexr.h:9995:22 #1 0x5b64fd in tinyexr::DecodeChunk(_EXRImage*, _EXRHeader const*, std::vector<unsigned long long, std::allocator<unsigned long long> > const8, unsigned char const*, unsigned long, std::__cxx11::basic_string<char, std::char_traits<char>, std::allocator<char> >*) /home/dungnguyen/gueb-testing/tinyexr-asan/./tinyexr.h:10984:20 #2 0x585b35 in tinyexr::DecodeEXRImage(_EXRImage*, _EXRHeader const*, unsigned char const*, unsigned char const*, unsigned long, char const**) /home/dungnguyen/gueb-testing/tinyexr-asan/./tinyexr.h:11190:15 #3-0x5826fe~in~LoadEXRImageFromMemory~/home/dungnguyen/gueb-testing/tinyexr-asan/./tinyexr.h:11722:100.#4 0x5689e1 in LoadEXRImageFromFile /home/dungnguyen/gueb-testing/tinyexr-asan/./tinyexr.h:11699:10 #5 0x55del in LoadEXR /home/dungnguyen/gueb-testing/tinyexr-asan/./tinyexr.h:11260:15
#6 0x5bd092 in main /home/dungnguyen/gueb-testing/tinyexr-asan/test_tinyexr.cc:130:13
#7 0x7fdba826082f in _libc_start_main /build/glibc-LK5gWL/glibc-2.23/csu/../csu/libc-start.c:291 #8 0x41b878 in _start (/home/dungnguyen/PoCs/tinyexr_2a5eac4/test_tinyexr-asan+0x41b878) AddressSanitizer can not provide additional info. SUMMARY: AddressSanitizer: SEGV /home/dungnguyen/gueb-testing/tinyexr-asan/./tinyexr.h:9995:22 in tinyexr::DecodePixelData(unsigned char**, int const*, unsigned char const*, ==31934==ABORTING Thanks Manh Dung

syoyo closed this as completed in a685e33 on Jul 7, 2019

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

1 participant

