⟨> Code ⊙ Issues 55 \$\frac{1}{2}\$ Pull requests 1 ⊕ Actions ⊞ Projects 1 ⊕ Security

heap-buffer-overflow in SEIUnit::deserialize #423

New issue

⊙ Closed cemonatk opened this issue on May 22, 2021 · 1 comment

Labels

cemonatk commented on May 22, 2021 • edited 🕶 Hi, please see asan output and poc file below Found by Cem Onat Karagun of Diesec Ubuntu 21.04 tsMuxeR version git-f6ab2a2 To run PoC: \$./tsmuxer crash 1 Asan output: tsMuxeR version git-f6ab2a2. github.com/justdan96/tsMuxer ==2834234==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x61000000007f5 at pc 0x000000077f724 bp 0x7ffebdd7b690 sp 0x7ffebdd7b688 READ of size 1 at 0x6100000007f5 thread T0 #0 0x77f723 in SEIUnit::deserialize(SPSUnit&, int) /src/build/../tsMuxer/nalUnits.cpp:2009:20 #1 0x4e3408 in H264StreamReader::checkStream(unsigned char*, int) /src/build/../tsMuxer/h264StreamReader.cpp:142:25
#2 0x6ceacc in METADemuxer::detectTrackReader(unsigned char*, int, AbstractStreamReader::ContainerType, int, int) /src/build/../tsMuxer/metaDemuxer.cpp:745:21
#3 0x6c7255 in METADemuxer::DetectStreamReader(BufferedReaderManager%, std::_cxx11::basic_string<char, std::char_traits<char, std::allocator<char> > const%, bool) /src/build/../tsMuxer/metaDemuxer.cpp:684:35 #4 0x5df87e in detectStreamReader(char const*, MPLSParser*, bool) /src/build/../tsMuxer/main.cpp:120:34 #5 0x5efd05 in main /src/build/../tsMuxer/main.cpp:698:17 #6 0x7fb1de23a564 in __libc_start_main csu/../csu/libc-start.c:332:16 #7 0x2ebded in _start (/home/Fuzzer_Instance_4/txmux/tsMuxer/bin/tsMuxeR+0x2ebded) 0x6100000007f5 is located 0 bytes to the right of 181-byte region [0x610000000740.0x61000000007f5) allocated by thread T0 here:
#0 0x39823d in operator new[](unsigned long) (/home/Fuzzer_Instance_4/txmux/tsMuxer/bin/tsMuxeR+0x39823d) #1 0x74f45d in NALUnit::decodeBuffer(unsigned char const*, unsigned char const*) /src/build/../tsMuxer/nalUnits.cpp:282:19 SUMMARY: AddressSanitizer: heap-buffer-overflow /src/build/../tsMuxer/nalUnits.cpp:2009:20 in SEIUnit::deserialize(SPSUnit&. int) Shadow bytes around the buggy address: Shadow byte legend (one shadow byte represents 8 application bytes): Addressable: Partially addressable: 01 02 03 04 05 06 07 Heap left redzone: fa Freed heap region: Stack mid redzone: Stack right redzone: Stack after return: Stack use after scope: Global redzone: Global init order: Poisoned by user: Container overflow: Array cookie: Intra object redzone: ASan internal: Left alloca redzone: Right alloca redzone: hadow gap: ==2834234==ABORTING

cemonatk commented on May 22, 2021

Author

Jump to bottom

crash_17.zip

c in jcdr428 mentioned this issue on May 22, 2021

[bug] heap buffer overflow when last byte of SEI = 0xFF #425



| Comparison of the state of the |
|---|
| Assignees |
| No one assigned |
| Labels |
| bug |
| Projects |
| None yet |
| Milestone |
| No milestone |
| Development |
| No branches or pull requests |
| |

2 participants

