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## heap-buffer-overflow in hevc.cpp:502:37 #436



⊙ Closed cemonatk opened this issue on May 27, 2021 · 0 comments

Labels

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cemonatk commented on May 27, 2021
Hi, please see asan output and poc file below
Found by Cem Onat Karagun of Diesec
As you can see on backtrace
  hevc.cpp:502:37 is called after HevcSpsUnit::deserialize // hevc.cpp:872:17.
System info:
  Ubuntu 21.04
  tsMuxeR version git-f6ab2a2
To run PoC after unzip:
short_term_1.zip
  $ ./tsmuxer short term 1
Asan output:
  tsMuxeR version git-f6ab2a2. github.com/justdan96/tsMuxer
  ==7825==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x61700000dc10 at pc 0x000000510c90 bp 0x7ffd6ec5b000 sp 0x7ffd6ec5aff8
      #0 0x510c8f in HevcSpsUnit::short term ref pic set(int) /src/build/../tsMuxer/hevc.cpp:502:37
      ## 0x50:405# in HevCopSunIt::snort_term_rer_pic_set(int) /src/bullo/../tswuxer/nevc.cpp:s92:13/
## 0x50:405 in HevCopSunIt::snort_term_rer_pic_set(int) /src/bullo/../tswuxer/nevc.cpp:s92:13/
## 0x52:406 in HEVCStreamReader::checkStream(unsigned char*, int) /src/bulld/../tswuxer/nevcStreamReader.cpp:74:24
## 0x62:255 in METADemuxer::detectTrackReader(unsigned char*, int, AbstractStreamReader::ContainerType, int, int) /src/bulld/../tsMuxer/metaDemuxer.cpp:770:21
## 0x62:255 in METADemuxer::DetectStreamReader(BufferedReaderManager%, std::_cxxII::basic_stringcchar, std::char_traitscchar>, std::allocatorcchar> const%, bool)
  /src/build/../tsMuxer/metaDemuxer.cpp:684:35
       #5 0x5df87e in detectStreamReader(char const*, MPLSParser*, bool) /src/build/../tsMuxer/main.cpp:120:34
      #6 0x5efd05 in main /src/build/../tsMuxer/main.cpp:698:17
#7 0x7f70e9543564 in _libc_start_main csu/../csu/libc-start.c:332:16
#8 0x2ebded in _start (/home/Fuzzer_Instance_99/txmux/tsMuxer/bin/tsMuxeR+0x2ebded)
  0x61700000dc10 is located 0 bytes to the right of 656-byte region [0x61700000d980,0x61700000dc10)
      #0 0x39812d in operator new(unsigned long) (/home/Fuzzer Instance 39/txmux/tsMuxer/bin/tsMuxeR+0x39812d)
  #1 0x50cb34 in _gpu_cxx::new_allocator<ShortTermRPS::allocate(unsigned long, void const*) /usr/lib/gcc/x86_64-linux-gpu/10/../../../include/c++/10/ext/new_allocator.h:115:27
  #2 0x50cb34 in std::allocator_traits<std::allocator<ShortTermRPS> >::allocate(std::allocator<ShortTermRPS>8, unsigned long) /usr/lib/gcc/x86_64-linux-gnu/10/../../include/c++/10/bits/alloc_traits.h:460:20
  #3 0x50cb34 in std:: Vector_base<ShortTermRPS, std::allocator<ShortTermRPS>>::_M_allocate(unsigned long) /usr/lib/gcc/x86_64-linux-gnu/10/../../../include/c++/10/bits/stl_vector.h:346:20
       #4 0x50cb34 in std::vector<ShortTermRPS, std::allocator<ShortTermRPS> >:: M default append(unsigned long) /usr/lib/gcc/x86 64-linux-
  gnu/10/../../../include/c++/10/bits/vector.tcc:635:34
  #5 0x50cb34 in std::vector<ShortTermRPS, std::allocator<ShortTermRPS> >::resize(unsigned long) /usr/lib/gcc/x86_64-linux-gnu/10/../../include/c++/10/bits/stl_vector.h:940:4
      #6 0x50cb34 in HevcSpsUnit::deserialize() /src/build/../tsMuxer/hevc.cpp:869:16
  SUMMARY: AddressSanitizer: heap-buffer-overflow /src/build/../tsMuxer/hevc.cpp:502:37 in HevcSpsUnit::short_term_ref_pic_set(int)
  Addressable:
    Partially addressable: 01 02 03 04 05 06 07
    Heap left redzone:
    Freed heap region:
Stack left redzone:
    Stack mid redzone:
    Stack right redzone:
     Stack after return:
     Stack use after scope:
    Global redzone:
    Poisoned by user:
Container overflow:
    Arrav cookie:
     ASan internal:
    Left alloca redzone:
Right alloca redzone:
```

Shadow gap: cc ==7825==ABORTING

Ç∄ icdr428 mentioned this issue on May 30, 2021 [Bug] Buffer overflow with non-hevc stream #422 Merged
 Me  $\[ \[ \] \]$  xavery pushed a commit that referenced this issue on Jun 9, 2021 👘 [Bug] Buffer overflow with non-hevc stream (#422) ... ✓ d77ed5e makes are as a completed on Jun 9, 2021 Assignees No one assigned Labels bug Projects None yet Milestone No milestone Development

3 participants



No branches or pull requests