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## heap-buffer-overflow in SEIUnit::mvc\_scalable\_nesting #427

○ Closed cemonatk opened this issue on May 24, 2021 · 0 comments

Labels

```
cemonatk commented on May 24, 2021
Hi, please see asan output and poc file below
 Found by Cem Onat Karagun of Diesec
System info:
       Ubuntu 21.04
        tsMuxeR version git-f6ab2a2
 To run PoC after unzip:
      $ ./tsmuxer scalable nesting poc
 scalable_nesting_poc.zip
 Asan output:
       tsMuxeR version git-f6ab2a2. github.com/justdan96/tsMuxer
        ==3847316==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x60200000d517 at pc 0x000000302336 bp 0x7ffcadc46bc0 sp 0x7ffcadc46368
       READ of size 16 at 0x60200000d517 thread T0
      #0 0x302335 in MemcmpInterceptorCommon(void*, int (*)(void const*, void const*, unsigned long), void const*, void const*, unsigned long) (/home/Fuzzer_Instance_11/txmux/tsMuxer/bin/tsMuxer+0x302335)
                 \verb| #1 0x30282a in memcmp (/home/Fuzzer_Instance_11/txmux/tsMuxer/bin/tsMuxeR+0x30282a)|
                  #2 0x78171c in SEIUnit::mvc scalable nesting(SPSUnit&, unsigned char*, int, int) /src/build/../tsMuxer/nalUnits.cpp:2442:21
                 #2 0x7817L In Stiunit::mv_statable_mestingk=sounts, unisigned chair*, int, int) /src/pullo/../tshuxer/matonits.cpp:2442;21
#3 0x778cd/p in Stiunit::mv_statable_mestingk=sounts, unisigned chair*, int) /src/pullo/../tshuxer/m264StreamReader::checkStream(unsigned chair*, int) /src/pullo/../tshuxer/m264StreamReader::checkStream(unsigned chair*, int) /src/pullo/../tshuxer/m264StreamReader::checkStream(unsigned chair*, int) /src/pullo/../tshuxer/m264StreamReader::checkStreamReader(unsigned chair*, int) /src/pullo/../tshuxer/m256StreamReader(unsigned chair*, int) /src/pullo/../tshux
       /src/build/../tsMuxer/metaDemuxer.cpp:684:35 #7 0x5df87e in detectStreamReader(char const*, MPLSParser*, bool) /src/build/../tsMuxer/main.cpp:120:34
                  #8 0x5efd05 in main /src/build/../tsMuxer/main.cpp:698:17
                 #9 0x7f3c2da0d564 in _libc_start_main csu/../csu/libc_start.c:332:16
#10 0x2ebded in _start (/home/Fuzzer_Instance_11/txmux/tsMuxer/bin/tsMuxeR+0x2ebded)
        0x60200000d517 is located 0 bytes to the right of 7-byte region [0x60200000d510,0x60200000d517)
        allocated by thread T0 here:
                 ## 0x39823d in operator new[](unsigned long) (/home/Fuzzer_Instance_11/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 (/home/Fuzzer_Instance_11/txmux/tsMuxer/bin/tsMuxeR+0x302335) in MemcmpInterceptorCommon(void*, int (*)(void const*, void const*, unsigned long), void const*, void const*, unsigned long)
       Shadow bytes around the buggy address:
0x0c047fff9a50: fa fa 00 00 fa fa 00 00
             0x0c047fff9a70: fa fa 00 00 fa fa 00 00 fa fa 00 00 fa fa 00 00 0x0c047fff9a80: fa fa 00 00 fa fa 01 fa fa 64 fa fa fa 64 f
        Shadow byte legend (one shadow byte represents 8 application bytes):
             Addressable:
                                                                        00
             Partially addressable: 01 02 03 04 05 06 07 Heap left redzone: fa
             Freed heap region:
Stack left redzone:
             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:
             Shadow gap:
        ==3847316==ABORTING
```

| Labels |
|- Development |
|- No branches or pull requests |
- No season

Ç ∰jcdr428 mentioned this issue on May 24, 2021

2 participants