Jump to bottom New issue

## heap-buffer-overflow in bitStream.h:58:61 #432



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

Labels

```
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
    bitStream.h:58:61 is called after HevcHdrUnit::deserialize // hevc.cpp:995:39
 System info:
    Ubuntu 21.04
    tsMuxeR version git-f6ab2a2
To run PoC after unzip:
getCurVal_3.zip
    $ ./tsmuxer getCurVal_3
 Asan output:
    tsMuxeR version git-f6ab2a2. github.com/justdan96/tsMuxer
     ==7777==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x612000020fde at pc 0x00000042ca17 bp 0x7ffc8ba3e270 sp 0x7ffc8ba3e268
    READ of size 1 at 0x612000020fde thread T0
            #0 0x42ca16 in BitStreamReader::getCurVal(unsigned int*) /src/build/../tsMuxer/bitStream.h:58:61
           #1 0x42ca16 in BitStreamReader::getBits(unsigned int) /src/build/../tsMuxer/bitStream.h:87:24
#2 0x50a120 in HevcHdrUnit::deserialize() /src/build/../tsMuxer/hevc.cpp:995:39
           #3 0x52bb4a in HEVCStreamReader::checkStream(unsigned char*, int) /src/build/../tsMuxer/hevcStreamReader.cpp:88:24
#4 0x6d0b97 in METADemuxer::detectTrackReader(unsigned char*, int, AbstractStreamReader::ContainerType, int, int) /src/build/../tsMuxer/metaDemuxer.cpp:770:21
            #5 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
            #6 0x5df87e in detectStreamReader(char const*, MPLSParser*, bool) /src/build/../tsMuxer/main.cpp:120:34
           #7 0x5efd05 in main /src/build/../tsMuxer/main.cpp:698:17
#8 0x7fe506733564 in __libc_start_main csu/../csu/libc-start.c:332:16
            #9 0x2ebded in _start (/home/Fuzzer_Instance_21/txmux/tsMuxer/bin/tsMuxeR+0x2ebded)
    0x612000020fde is located 0 bytes to the right of 286-byte region [0x612000020ec0,0x612000020fde)
           #0 0x39823d in operator new[](unsigned long) (/home/Fuzzer_Instance_21/txmux/tsMuxer/bin/tsMuxeR+0x39823d)
#1 0x514859 in HevcUnit::decodeBuffer(unsigned char const*, unsigned char const*) /src/build/../tsMuxer/hevc.cpp:40:19
    SUMMARY: Address Sanitizer: heap-buffer-overflow / src/build/../ts Muxer/bitStream.h: 58:61 in BitStream Reader:: getCurVal(unsigned int*) and the sum of the sum o
    Shadow bytes around the buggy address:
        0x0c247fffc1d0: fa fa fa fa fa fa fa fa 00 00 00 00 00 00 00
       Shadow byte legend (one shadow byte represents 8 application bytes): Addressable: 00
       Partially addressable: 01 02 03 04 05 06 07 Heap left redzone:
        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:
        Intra object redzone:
        ASan internal:
        Left alloca redzone:
        Right alloca redzone:
        Shadow gap:
     ==7777==ABORTING
```



xavery closed this as completed in 8028fb8 on Jun 9, 2021

Assignees

No one assigned

Labels

bug

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

2 participants

