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Segmentation fault caused by null pointer dereference in MP4fragment, Ap4StsdAtom.cpp:75 #800

Open

5hadowblad3 opened this issue on Oct 19 · 0 comments

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Hi, there.

There is a segmentation fault caused by null pointer dereference in MP4fragment, Ap4StsdAtom.cpp:75 in the newest commit 5e7bb34.

The reason for this issue is that the return value of the GetSampleDescription is unchecked.

To reproduce, run:

./mp4fragment poc /dev/null

Here is the trace reported by ASAN:

```
==3437252==ERROR: AddressSanitizer: SEGV on unknown address 0x00000000000 (pc 0x00000005fcb24 bp 0x60b000000000 sp 0x7ffec2967f00 T0)
==3437252==The signal is caused by a READ memory access.
==3437252==Hint: address points to the zero page.
#0 0x5fcb24 in AP4_StsdAtom::AP4_StsdAtom(AP4_SampleTable*)
```

```
/benchmark/Bento4/Source/C++/Core/Ap4StsdAtom.cpp:75:47
          #1 0x6b7b51 in AP4 SampleTable::GenerateStblAtom(AP4 ContainerAtom*&)
     /benchmark/Bento4/Source/C++/Core/Ap4SampleTable.cpp:59:30
          #2 0x620f26 in AP4 TrakAtom::AP4 TrakAtom(AP4 SampleTable*, unsigned int, char const*,
     unsigned int, unsigned long long, unsigned long long, unsigned long long, unsigned int, unsigned
     long long, unsigned short, char const*, unsigned int, unsigned int, unsigned short, unsigned
     short, int const*) /benchmark/Bento4/Source/C++/Core/Ap4TrakAtom.cpp:131:28
          #3 0x61e255 in AP4_Track::AP4_Track(AP4_SampleTable*, unsigned int, unsigned int, unsigned
     long long, unsigned int, unsigned long long, AP4_Track const*)
     /benchmark/Bento4/Source/C++/Core/Ap4Track.cpp:183:22
          #4 0x500733 in Fragment(AP4_File&, AP4_ByteStream&, AP4_Array<TrackCursor*>&, unsigned int,
     unsigned int, bool, bool, bool)
     /benchmark/Bento4/Source/C++/Apps/Mp4Fragment/Mp4Fragment.cpp:360:39
          #5 0x500733 in main /benchmark/Bento4/Source/C++/Apps/Mp4Fragment/Mp4Fragment.cpp:1475:5
          #6 0x7f0f643e9082 in __libc_start_main /build/glibc-SzIz7B/glibc-2.31/csu/../csu/libc-
     start.c:308:16
          #7 0x41d8ad in _start ( /benchmark/Bento4/build-a/mp4fragment+0x41d8ad)
      AddressSanitizer can not provide additional info.
      SUMMARY: AddressSanitizer: SEGV /benchmark/Bento4/Source/C++/Core/Ap4StsdAtom.cpp:75:47 in
     AP4 StsdAtom::AP4 StsdAtom(AP4 SampleTable*)
      ==3437252==ABORTING
  mp4fragment_npd_Ap4StsdAtom.cpp75.zip
  (unzip first)
Assignees
No one assigned
Labels
None yet
Projects
None yet
Milestone
No milestone
```

1 participant

Development

No branches or pull requests

