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There is a heap-buffer-overflow in the GetGhostNum function of stbl_read.c:369 #1344

⊙ Closed gutiniao opened this issue on Nov 13, 2019 · 1 comment

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gutiniao commented on Nov 13, 2019
Thanks for reporting your issue. Please make sure these boxes are checked before submitting your issue - thank you!
[ \sqrt{\ }] I looked for a similar issue and couldn't find any.
 [√] I tried with the latest version of GPAC. Installers available at http://gpac.io/downloads/gpac-nightly-builds/
[ \sqrt{3} I give enough information for contributors to reproduce my issue (meaningful title, github labels, platform and compiler, command-line ...). I can share files anonymously with this dropbox:
 Detailed guidelines: http://gpac.io/2013/07/16/how-to-file-a-bug-properly/
A crafted input will lead to crash in stbl_read.c at gpac 0.8.0.
 Triggered by
 ./MP4Box -diso POC -out /dev/null
006GetGhostNum-heap
 The ASAN information is as follows:
          /MP4Box -diso 006GetGhostNum-heap -out /dev/null
       [iso file] Box "avcC" (start 939) has 34 extra bytes
       [iso file] Unknown box type 0000 in parent sinf
[iso file] Box "dref" (start 1403) has 4 extra bytes
      [iso file] Missing DataInformationBox
[iso file] Missing DataInformationBox
[iso file] Box "minf" (start 1371) has 291 extra bytes
[iso file] Track with no sample table!
[iso file] Track with no sample description box!
          ==7153==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x602000000454 at pc 0x5572c94aafff bp 0x7fff10f02f50 sp 0x7fff10f02f40
       READ of size 4 at 0x602000000454 thread T0
                 #0 0x5572c94aaffe in GetGhostNum isomedia/stbl_read.c:369
#1 0x5572c94aaffe in stbl_GetSampleInfos isomedia/stbl_read.c:436
                 #2 0x5572c943e253 in gf_isom_get_sample_cenc_info_ex isomedia/isom_read.c:4153 #3 0x5572c98c8c2f in senc_Parse isomedia/box_code_drm.c:1353
                  #4 0x5572c94203e6 in gf_isom_parse_movie_boxes isomedia/isom_intern.c:399 #5 0x5572c9422bca in gf_isom_open_file isomedia/isom_intern.c:615
                  #6 0x5572c9160852 in mp4boxMain /home/liuz/gpac-master/applications/mp4box/main.c:4767

#7 0x7f0e00306096 in _libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x21b96)

#8 0x5572c915cb19 in _start (/usr/local/gpac-asan3/bin/MP4Box+0x163b19)
       0x602000000454 is located 3 bytes to the right of 1-byte region [0x602000000450,0x6020000000451)
                  #0 0x7f0e00f8fb50 in __interceptor_malloc (/usr/lib/x86_64-linux-gnu/libasan.so.4+0xdeb50) #1 0x5572c98a424a in stsc_Read isomedia/box_code_base.c:5734
       SUMMARY: AddressSanitizer: heap-buffer-overflow isomedia/stbl_read.c:369 in GetGhostNum Shadow bytes around the buggy address:
            0x0c047fff8030: fa fa 00 00 fa fa 00 00 fa fa 00 00 fa fa 01 fa 0x0c047fff8040: fa fa 00 00 fa 00 fa 00 fa 00 fa 00 fa 00 00 fa 00 fa 00 00 fa 00 00 fa 00 00 fa 00 fa 00 00 fa 00 00 fa 00 fa 00 00 f
             0x0c047fff8050; fa fa 00 00 fa fa 00 00 fa fa 00 00 fa fa 00 00
            =>0x0c047fff8080: fa fa 00 00 fa fa 01 fa fa fa[01]fa fa fa 00 00
           0x0c047fff8090: fa fa 00 00 fa fa 00 00 fa fa 00 00 fa fa 01 fa 0x0c047fff8030: fa fa 00 00 0x0c047fff8000: fa fa 00 00 fa fa 00 fa fa 00 00 fa fa 01 fa 01 fa 00 fa fa 00 fa fa 00 fa fa 01 fa fa 01 
             0x0c047fff80d0: fa fa 00 00 fa fa 00 00 fa fa 00 00 fa fa 00 fa
        Shadow byte legend (one shadow byte represents 8 application bytes):
            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:
                                                                                bb
             ASan internal:
Left alloca redzone:
            Right alloca redzone:
         ==7153==ABORTING
```

aureliendavid added a commit that referenced this issue on Jan 9, 2020

√ fix for stsc boxes with 0 entries (#1344)

5aa8c4h

this should be fixed by the commit above

reopen if needed

aureliendavid closed this as completed on Jan 9, 2020

Assignees No one assigned Labels None yet Projects None yet Milestone No milestone Development No branches or pull requests

2 participants

