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A heap-buffer-overflow has occurred in function gf_isom_dovi_config_get #1846

○ Closed dhbbb opened this issue on Jul 6, 2021 · 0 comments

```
dhbbb commented on Jul 6, 2021
Hello.
A heap-buffer-overflow has occurred in function \verb| gf_isom_dovi_config_get| of isomedia/avc_ext.c: 2435 when running program MP4Box, this can reproduce on the lattest commit.
Ubuntu 20.04.1 : clang 10.0.0 , gcc 9.3.0
poc_heap.zip
Verification steps:
1.Get the source code of gpac
2.Compile
  CC=gcc CXX=g++ CFLAGS="-fsanitize=address" CXXFLAGS="-fsanitize=address" ./configure
3.run MP4Box
  ./MP4Box -info poc.mp4
command line
  [iso file] Unknown box type esJs in parent enca [iso file] Unknown box type stts in parent enca
  [150 file] Box "enca" (start 1455) has 5 extra bytes
[iso file] Box "enca" (start 1455) has 5 extra bytes
[iso file] Box "enca" is larger than container box
[iso file] Box "stsd" size 171 (start 1439) invalid (read 192)
* Movie Info *
            Timescale 90000 - 2 tracks
  Segmentation fault
asan info
  ==1042542==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x610000000130 at pc 0x7fc6ede92514 bp 0x7ffcfced6850 sp 0x7ffcfced6840 READ of size 8 at 0x610000000130 thread T0
       #0 0x7fc6ede92513 in gf_isom_dovi_config_get isomedia/avc_ext.c:2435 #1 0x7fc6ee2fecle in gf_media_get_rfc_6381_codec_name media_tools/isom_tools.c:4207
       #2 @x558b1bf03ac5 in DumpTrackTnfo /home.../gpac/gpac-master/applications/mp4box/filedump.c:3442
#3 @x558b1bf18f44 in DumpMovieInfo /home.../gpac/gpac-master/applications/mp4box/filedump.c:3777
#4 @x558b1bed571d in mp4boxMain /home.../gpac/gpac-master/applications/mp4box/main.c:5991
       #5 0x7fc6ed2390b2 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x270b2)
       #6 0x558b1be77f1d in _start (/home.../gpac/gpac-master/bin/gcc/MP4Boxfl+0x48f1d)
   Address 0x610000000130 is a wild pointer.
   SUMMARY: AddressSanitizer: heap-buffer-overflow isomedia/avc_ext.c:2435 in gf_isom_dovi_config_get Shadow bytes around the buggy address:
     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:
     Container overflow:
     Array cookie:
     Intra object redzone:
     ASan internal:
Left alloca redzone:
     Right alloca redzone:
     Shadow gap:
   ==1042542==ABORTING
source code
   2428 GF_DOVIDecoderConfigurationRecord *gf_isom_dovi_config_get(GF_ISOFile* the_file, u32 trackNumber, u32 DescriptionIndex)
  2429 {
```

```
GF_TrackBox* trak;

GF_MPEGVisualSampleEntryBox *entry;

GF_MPEGVisualSampleEntryBox *entry;

GF_MPEGVisualSampleEntryBox *entry;

GF_MPEGVisualSampleEntryBox *fle(the_file, trackNumber);

GF_MPEGVisualSampleEntryBox*)gf_list_get(trak->Media->information->sampleTable->SampleDescription->child_boxes, DescriptionIndex - 1);

if (lentry || lentry->dovi_config) return NULL;

return DOVI_DuplicateConfig(&entry->dovi_config->DOVIConfig);

2437 }
```

a jeanlf closed this as completed in 737e1f3 on Jul 7, 2021

∠ Janette88 mentioned this issue on Jul 6

heap-buffer-overflow in function gf_isom_dovi_config_get #2218

⊘ Closed

🕄 3 tasks

Assignees

No one assigned

Labels

None yet

Projects

None vet

Milestone

No milestone

Development

No branches or pull requests

1 participant

