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## [Security]heap buffer overflow issue with gpac MP4Box #1703

⊙ Closed ) 5n1p3r0010 opened this issue on Mar 11, 2021 · 0 comments

```
5n1p3r0010 commented on Mar 11, 2021 • edited ▼
Hi.
There is a heap buffer overflow issue with gpac MP4Box, this can reproduce on the lattest commit.
build:
  CC=gcc CXX=g++ CFLAGS="-fsanitize=address" CXXFLAGS="-fsanitize=address" LDFLAGS="-fsanitize=address" ./configure
run as:
shows the following log
    =114880==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x607000000a80 at pc 0x7f469397c57d bp 0x7fffe55ec240 sp 0x7fffe55eb9e8
   WRITE of size 138 at 0x607000000a80 thread T0
        #0 0x7f469397c57c (/lib/x86_64-linux-gnu/libasan.so.5+0x9b57c)
       #1 0x7f4693177812 in gf_bs_read_data (/home/r00t/fuzz/target/gpac/bin/gcc/libgpac.so.10+0xa6812)
       #2 0x7f46932d4ffa in tenc_box_read (/home/r00t/fuzz/target/gpac/bin/gcc/libgpac.so.10+0x203ffa)
#3 0x7f46932ebc68 in gf_isom_box_parse_ex (/home/r00t/fuzz/target/gpac/bin/gcc/libgpac.so.10+0x21ac68)
       #4 0x7f46932ec33f in gf_isom_parse_root_box (/home/r00t/fuzz/target/gpac/bin/gcz/libgpac.so.10+0x21b33f)
#5 0x7f46932f3fd9 in gf_isom_parse_movie_boxes_internal (/home/r00t/fuzz/target/gpac/bin/gcz/libgpac.so.10+0x222fd9)
       #6 0x7f46932f55a8 in gf_isom_open_file (/home/r00t/fuzz/target/gpac/bin/gcc/libgpac.so.10+0x2245a8) #7 0x55cb0df407ad in mp4boxMain (/home/r00t/fuzz/target/gpac/bin/gcc/MP4Box+0x287ad)
       #8 0x7f4692f060b2 in _libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x270b2)
#9 0x55cb0df3026d in _start (/home/r00t/fuzz/target/gpac/bin/gcc/MP4Box+0x1826d)
    0x607000000a80 is located 0 bytes to the right of 80-byte region [0x607000000a30,0x607000000a80)
  allocated by thread T0 here:
#0 0x7f46939eebc8 in malloc (/lib/x86_64-linux-gnu/libasan.so.5+0x10dbc8)
       #1 0x7f46932d4ec1 in tenc_box_new (/home/r00t/fuzz/target/gpac/bin/gcc/libgpac.so.10+0x203ec1)
   SUMMARY: AddressSanitizer: heap-buffer-overflow (/lib/x86_64-linux-gnu/libasan.so.5+0x9b57c)
   Shadow bytes around the buggy address:
     0x0c0e7fff8100: 00 00 00 00 00 00 00 00 02 fa fa fa fa 00 00 0x0c0e7fff8110: 00 00 00 00 00 06 fa fa fa fa fa 00 00 00 00
     0x0c0e7fff8140: 00 00 fa fa fa fa 00 00 00 00 00 00 00 00 00 00
   Addressable:
     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:
     Arrav cookie:
     ASan internal:
     Left alloca redzone:
     Right alloca redzone:
   Shadow gap:
==114880==ABORTING
Reporter:
5n1p3r0010 from Topsec Alpha Lab
gpac-heap_overflow1.zip
```

peanlf closed this as completed in 8986422 on Mar 11, 2021

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

1 participant

