New issue

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A NULL pointer dereference in the function SetupWriters isomedia/isom_store.c:171 #1659

Closed **Clingto** opened this issue on Dec 15, 2020 · 0 comments

Clingto commented on Dec 15, 2020 • edited

System info:
Ubuntu 16.04.6 LTS, X64, gcc 5.4.0, gpac (latest master `c4f8bc6` and the latest V1.0.1 `d8538e8`)

I think it is probably due to an imcomplete fix of #1485

Compile Command:

```
$ CC="gcc -fsanitize=address -g" CXX="g++ -fsanitize=address -g" ./configure --static-mp4box --extra-ldflags="-ldl -g"
$ make
```

Run Command:

```
$ MP4Box -hint $SetupWriters-null-pointer -out /dev/null
```

POC file:
https://github.com/Clingto/POC/blob/master/gpac-MP4Box/gpac-c4f8bc6e_poc/SetupWriters-null-pointer

gdb info:

```
Program received signal SIGSEGV, Segmentation fault.
0x00000000005570be in SetupWriters ()
(gdb) bt
#0  0x00000000005570be in SetupWriters ()
#1  0x0000000000559c36 in WriteInterleaved ()
#2  0x000000000055a57f in WriteToFile ()
#3  0x000000000054d70f in gf_isom_write ()
#4  0x000000000054d893 in gf_isom_close ()
#5  0x00000000004171c3 in mp4boxMain ()
#6  0x00007ffff6ec7840 in __libc_start_main (main=0x409dc0 <main>, argc=5, argv=0x7fffffffdf78, init=<optimized out>, fini=<optimized out>, rtld_fini=<optimized out>, stack_end=0x7fff
#7  0x0000000000409df9 in _start ()
```

ASAN info:

```
ASAN:SIGSEGV
=================================================================
==27206==ERROR: AddressSanitizer: SEGV on unknown address 0x000000000028 (pc 0x000000778288 bp 0x7ffccf34fdd0 sp 0x7ffccf34fd40 T0)
    #0 0x778287 in SetupWriters isomedia/isom_store.c:171
    #1 0x77fd9c in WriteInterleaved isomedia/isom_store.c:1611
    #2 0x7811f2 in WriteToFile isomedia/isom_store.c:1885
    #3 0x75ba6e in gf_isom_write isomedia/isom_read.c:592
    #4 0x75bf43 in gf_isom_close isomedia/isom_read.c:616
    #5 0x42c0c0 in mp4boxMain /opt/data/yyp/fuzzsequence/test/0-day/SRC_asan/applications/mp4box/main.c:6718
    #6 0x7f218ddaf83f in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x2083f)
    #7 0x417638 in _start (/opt/data/yyp/fuzzsequence/test/0-day/SRC_asan/build/bin/MP4Box+0x417638)

AddressSanitizer can not provide additional info.
SUMMARY: AddressSanitizer: SEGV isomedia/isom_store.c:171 SetupWriters
==27206==ABORTING
```

Addition: This bug was found with our fuzzer, which is based on AFL. Our fuzzer is developed by Yuanpingyu(cfenicey@gmail.com) 、Xiangkun Jia(xiangkun@iscas.ac.cn) 、Marsman1996(lqliuyuwei@outlook.com) and Yanhao.

jeanlf closed this as completed in `dae9900` on Jan 4, 2021

Assignees
No one assigned

Labels
None yet

Projects
None yet

Milestone
No milestone

Development
No branches or pull requests

1 participant