


New issue

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null dereference in AV1_DuplicateConfig #1738

 Closed 5n1p3r0010 opened this issue on Apr 8, 2021 · 0 comments

5n1p3r0010 commented on Apr 8, 2021

Hi,

There is a null dereference issue with gpac MP4Box, this can reproduce on the latest commit.

Steps To Reproduce

build:

```
CC=gcc CXX=g++ CFLAGS="-fsanitize=address" CXXFLAGS="-fsanitize=address" LDFLAGS="-fsanitize=address" ./configure --enable-debug
make
```

run as:

```
MP4Box -hint <poc> -out /dev/null
```

shows the following log:

```
AddressSanitizer:DEADLYSIGNAL
=====
==2125572==ERROR: AddressSanitizer: SEGV on unknown address 0x000000000000 (pc 0x7f0959a08b30 bp 0x7ffed8940580 sp 0x7ffed8940550 T0)
==2125572==The signal is caused by a READ memory access.
==2125572==Hint: address points to the zero page.
#0 0x7f0959a08b2f in AV1_DuplicateConfig isomedia/avc_ext.c:1345
#1 0x7f0959a08dbb in AV1_RewriteESDescriptorEx isomedia/avc_ext.c:1386
#2 0x7f0959a08e33 in AV1_RewriteESDescriptor isomedia/avc_ext.c:1396
#3 0x7f0959a25700 in video_sample_entry_box_read isomedia/box_code_base.c:4252
#4 0x7f0959a66e6d in gf_isom_box_read isomedia/box_funcs.c:1801
#5 0x7f0959a6570f in gf_isom_box_parse_ex isomedia/box_funcs.c:260
#6 0x7f0959a66971 in gf_isom_box_array_read_ex isomedia/box_funcs.c:1698
#7 0x7f0959a298a2 in stsd_box_read isomedia/box_code_base.c:5340
#8 0x7f0959a66e6d in gf_isom_box_read isomedia/box_funcs.c:1801
#9 0x7f0959a6570f in gf_isom_box_parse_ex isomedia/box_funcs.c:260
#10 0x7f0959a66971 in gf_isom_box_array_read_ex isomedia/box_funcs.c:1698
#11 0x7f0959a65c91 in gf_isom_box_array_read isomedia/box_funcs.c:381
#12 0x7f0959a28787 in stbl_box_read isomedia/box_code_base.c:5003
#13 0x7f0959a66e6d in gf_isom_box_read isomedia/box_funcs.c:1801
#14 0x7f0959a6570f in gf_isom_box_parse_ex isomedia/box_funcs.c:260
#15 0x7f0959a66971 in gf_isom_box_array_read_ex isomedia/box_funcs.c:1698
#16 0x7f0959a65c91 in gf_isom_box_array_read isomedia/box_funcs.c:381
#17 0x7f0959a21d53 in minf_box_read isomedia/box_code_base.c:3494
#18 0x7f0959a66e6d in gf_isom_box_read isomedia/box_funcs.c:1801
#19 0x7f0959a6570f in gf_isom_box_parse_ex isomedia/box_funcs.c:260
#20 0x7f0959a66971 in gf_isom_box_array_read_ex isomedia/box_funcs.c:1698
#21 0x7f0959a65c91 in gf_isom_box_array_read isomedia/box_funcs.c:381
#22 0x7f0959a20680 in mdia_box_read isomedia/box_code_base.c:3049
#23 0x7f0959a66e6d in gf_isom_box_read isomedia/box_funcs.c:1801
#24 0x7f0959a6570f in gf_isom_box_parse_ex isomedia/box_funcs.c:260
#25 0x7f0959a66971 in gf_isom_box_array_read_ex isomedia/box_funcs.c:1698
#26 0x7f0959a65c91 in gf_isom_box_array_read isomedia/box_funcs.c:381
#27 0x7f0959a2f637 in trak_box_read isomedia/box_code_base.c:6691
#28 0x7f0959a66e6d in gf_isom_box_read isomedia/box_funcs.c:1801
#29 0x7f0959a6570f in gf_isom_box_parse_ex isomedia/box_funcs.c:260
#30 0x7f0959a66971 in gf_isom_box_array_read_ex isomedia/box_funcs.c:1698
#31 0x7f0959a65c91 in gf_isom_box_array_read isomedia/box_funcs.c:381
#32 0x7f0959a22988 in moov_box_read isomedia/box_code_base.c:3672
#33 0x7f0959a66e6d in gf_isom_box_read isomedia/box_funcs.c:1801
#34 0x7f0959a6570f in gf_isom_box_parse_ex isomedia/box_funcs.c:260
#35 0x7f0959a64c08 in gf_isom_parse_root_box isomedia/box_funcs.c:38
#36 0x7f0959a6f3d8 in gf_isom_parse_movie_boxes_internal isomedia/isom_intern.c:318
#37 0x7f0959a70b2c in gf_isom_parse_movie_boxes isomedia/isom_intern.c:750
#38 0x7f0959a70ebf in gf_isom_open_file isomedia/isom_intern.c:870
#39 0x7f0959a73e9b in gf_isom_open isomedia/isom_read.c:520
#40 0x559f115aee26 in mp4boxMain /home/r00t/fuzz/target/tmp/gpac/applications/mp4box/main.c:5699
#41 0x559f115b15e9 in main /home/r00t/fuzz/target/tmp/gpac/applications/mp4box/main.c:6312
#42 0x7f09595f00b2 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x270b2)
#43 0x559f1159d26d in _start (/home/r00t/fuzz/target/tmp/gpac/bin/gcc/MP4Box+0x1826d)

AddressSanitizer can not provide additional info.
SUMMARY: AddressSanitizer: SEGV isomedia/avc_ext.c:1345 in AV1_DuplicateConfig
==2125572==ABORTING
```

Reporter:

5n1p3r0010 from Topsec Alpha Lab
[null_AV1_DuplicateConfig.zip](#)

 jeanlf closed this as completed in b2eab95 on Apr 9, 2021

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

1 participant

