New issue

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Use After Free #2058

Closed **rbouqueau** opened this issue on Jan 21 · 1 comment

rbouqueau commented on Jan 21 Contributor

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Proof of Concept

Version:

MP4Box - GPAC version 1.1.0-DEV-rev1647-gb6f68145e-master
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Please cite our work in your research:
        GPAC Filters: https://doi.org/10.1145/3339825.3394929
        GPAC: https://doi.org/10.1145/1291233.1291452

GPAC Configuration: --prefix=/home/aidai/fuzzing/gpac/
Features: GPAC_CONFIG_LINUX GPAC_64_BITS GPAC_HAS_IPV6 GPAC_HAS_SOCK_UN GPAC_MINIMAL_ODF
GPAC_HAS_QJS GPAC_HAS_LINUX_DVB  GPAC_DISABLE_3D

System information Ubuntu 20.04 focal, AMD EPYC 7742 64-Core @ 16x 2.25GHz

poc

base64 poc
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command:

./MP4Box -lsr poc

Result

```
~/fuzzing/gpac/gpac-asan/bin/gcc/MP4Box -lsr poc
[iso file] Unknown box type dCCf in parent minf
[iso file] Missing DataInformationBox
[iso file] extra box maxr found in hinf, deleting
[iso file] Box "rtp " (start 9955) has 7 extra bytes
[iso file] Box "stsd" (start 9939) has 5 extra bytes
[iso file] extra box maxr found in hinf, deleting
[iso file] Unknown box type 80rak in parent moov
[iso file] Incomplete box mdat - start 11495 size 853069
[iso file] Incomplete file while reading for dump - aborting parsing
[iso file] Unknown box type dCCf in parent minf
[iso file] Missing DataInformationBox
[iso file] extra box maxr found in hinf, deleting
[iso file] Box "rtp " (start 9955) has 7 extra bytes
[iso file] Box "stsd" (start 9939) has 5 extra bytes
[iso file] extra box maxr found in hinf, deleting
[iso file] Unknown box type 80rak in parent moov
[iso file] Incomplete box mdat - start 11495 size 853069
[iso file] Incomplete file while reading for dump - aborting parsing
MPEG-4 BIFS Scene Parsing
[ODF] Reading bifs config: shift in sizes (not supported)
[BIFS] name too long 1475 bytes but max size 1000, truncating
=================================================================
==3330624==ERROR: AddressSanitizer: heap-use-after-free on address 0x610000000494 at pc
0x7fa720afa77d bp 0x7fffca7618d0 sp 0x7fffca7618c8
```

```
READ of size 4 at 0x610000000494 thread T0
    #0 0x7fa720afa77c in Q_IsTypeOn /home/aidai/fuzzing/gpac/gpac-
asan/src/bifs/unquantize.c:151:12
    #1 0x7fa720afe187 in gf_bifs_dec_unquant_field /home/aidai/fuzzing/gpac/gpac-
asan/src/bifs/unquantize.c:397:7
    #2 0x7fa720ab6d21 in gf_bifs_dec_sf_field /home/aidai/fuzzing/gpac/gpac-
asan/src/bifs/field_decode.c:84:7
    #3 0x7fa720ac040e in gf_bifs_dec_field /home/aidai/fuzzing/gpac/gpac-
asan/src/bifs/field_decode.c:517:7
    #4 0x7fa720ac137d in gf_bifs_dec_node_list /home/aidai/fuzzing/gpac/gpac-
asan/src/bifs/field_decode.c:618:7
    #5 0x7fa720abcdb3 in gf_bifs_dec_node /home/aidai/fuzzing/gpac/gpac-
asan/src/bifs/field_decode.c:920:7
    #6 0x7fa720a96880 in gf_bifs_dec_proto_list /home/aidai/fuzzing/gpac/gpac-
asan/src/bifs/com_dec.c:1143:12
    #7 0x7fa720a98391 in BD_DecSceneReplace /home/aidai/fuzzing/gpac/gpac-
asan/src/bifs/com_dec.c:1351:6
    #8 0x7fa720ad66b6 in BM_SceneReplace /home/aidai/fuzzing/gpac/gpac-
asan/src/bifs/memory_decoder.c:860:21
    #9 0x7fa720ad6ff7 in BM_ParseCommand /home/aidai/fuzzing/gpac/gpac-
asan/src/bifs/memory_decoder.c:910:8
    #10 0x7fa720ad76ee in gf_bifs_flush_command_list /home/aidai/fuzzing/gpac/gpac-
asan/src/bifs/memory_decoder.c:951:9
    #11 0x7fa720a96969 in gf_bifs_dec_proto_list /home/aidai/fuzzing/gpac/gpac-
asan/src/bifs/com_dec.c:1162:5
    #12 0x7fa720a96070 in gf_bifs_dec_proto_list /home/aidai/fuzzing/gpac/gpac-
asan/src/bifs/com_dec.c:1132:8
    #13 0x7fa720a98391 in BD_DecSceneReplace /home/aidai/fuzzing/gpac/gpac-
asan/src/bifs/com_dec.c:1351:6
    #14 0x7fa720ad66b6 in BM_SceneReplace /home/aidai/fuzzing/gpac/gpac-
asan/src/bifs/memory_decoder.c:860:21
    #15 0x7fa720ad6ff7 in BM_ParseCommand /home/aidai/fuzzing/gpac/gpac-
asan/src/bifs/memory_decoder.c:910:8
    #16 0x7fa720ad852e in gf_bifs_decode_command_list /home/aidai/fuzzing/gpac/gpac-
asan/src/bifs/memory_decoder.c:1019:6
    #17 0x7fa72127c2df in gf_sm_load_run_isom /home/aidai/fuzzing/gpac/gpac-
asan/src/scene_manager/loader_isom.c:303:10
    #18 0x7fa7212000fe in gf_sm_load_run /home/aidai/fuzzing/gpac/gpac-
asan/src/scene_manager/scene_manager.c:719:28
    #19 0x51cdb8 in dump_isom_scene /home/aidai/fuzzing/gpac/gpac-
asan/applications/mp4box/filedump.c:203:14
    #20 0x5004b4 in mp4boxMain /home/aidai/fuzzing/gpac/gpac-
asan/applications/mp4box/main.c:6146:7
    #21 0x7fa71fdd50b2 in __libc_start_main /build/glibc-eX1tMB/glibc-2.31/csu/../csu/libc-
start.c:308:16
    #22 0x429b7d in _start (/home/aidai/fuzzing/gpac/gpac-asan/bin/gcc/MP4Box+0x429b7d)

0x610000000494 is located 84 bytes inside of 192-byte region [0x610000000440,0x610000000500)
freed by thread T0 here:
    #0 0x4a203d in free (/home/aidai/fuzzing/gpac/gpac-asan/bin/gcc/MP4Box+0x4a203d)
    #1 0x7fa7206f69dc in gf_node_free /home/aidai/fuzzing/gpac/gpac-
asan/src/scenegraph/base_scenegraph.c:1620:2

previously allocated by thread T0 here:
    #0 0x4a22bd in malloc (/home/aidai/fuzzing/gpac/gpac-asan/bin/gcc/MP4Box+0x4a22bd)
    #1 0x7fa72072195c in QuantizationParameter_Create /home/aidai/fuzzing/gpac/gpac-
```

```
asan/src/scenegraph/mpeg4_nodes.c:12496:2

SUMMARY: AddressSanitizer: heap-use-after-free /home/aidai/fuzzing/gpac/gpac-
asan/src/bifs/unquantize.c:151:12 in Q_IsTypeOn
Shadow bytes around the buggy address:
  0x0c207fff8040: fa fa fa fa fa fa fa fa 00 00 00 00 00 00 00 00
  0x0c207fff8050: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 05
  0x0c207fff8060: fa fa fa fa fa fa fa fa 00 00 00 00 00 00 00 00
  0x0c207fff8070: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
  0x0c207fff8080: fa fa fa fa fa fa fa fa fd fd fd fd fd fd fd fd
=>0x0c207fff8090: fd fd[fd]fd fd fd fd fd fd fd fd fd fd fd fd fd
  0x0c207fff80a0: fa fa fa fa fa fa fa fa fa fa fa fa fa fa fa fa
  0x0c207fff80b0: fa fa fa fa fa fa fa fa fa fa fa fa fa fa fa fa
  0x0c207fff80c0: fa fa fa fa fa fa fa fa fa fa fa fa fa fa fa fa
  0x0c207fff80d0: fa fa fa fa fa fa fa fa fa fa fa fa fa fa fa fa
  0x0c207fff80e0: fa fa fa fa fa fa fa fa fa fa fa fa fa fa fa fa
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:       fd
  Stack left redzone:      f1
  Stack mid redzone:       f2
  Stack right redzone:     f3
  Stack after return:      f5
  Stack use after scope:   f8
  Global redzone:          f9
  Global init order:       f6
  Poisoned by user:        f7
  Container overflow:      fc
  Array cookie:            ac
  Intra object redzone:    bb
  ASan internal:           fe
  Left alloca redzone:     ca
  Right alloca redzone:    cb
  Shadow gap:              cc
==3330624==ABORTING
```

jeanlf commented on Jan 21 — Contributor

fixed by fixing #2057

jeanlf closed this as completed on Jan 21

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

2 participants