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New issue

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Memory Leak in gf_list_new utils/list.c:601 #2284

Closed

FDU-Sec opened this issue on Oct 11 · 0 comments

FDU-Sec commented on Oct 11

Description

Memory Leak in gf_list_new utils/list.c:601

Version

```
$ ./MP4Box -version
MP4Box - GPAC version 2.1-DEV-rev368-gfd054169b-master
(c) 2000-2022 Telecom Paris distributed under LGPL v2.1+ - http://gpac.io
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: --enable-sanitizer
Features: GPAC_CONFIG_LINUX GPAC_64_BITS GPAC_HAS_IPV6 GPAC_HAS_SOCK_UN GPAC_MINIMAL_ODF
GPAC_HAS_QJS GPAC_HAS_JPEG GPAC_HAS_PNG GPAC_HAS_LINUX_DVB GPAC_DISABLE_3D
```

Replay

```
git clone https://github.com/gpac/gpac.git
cd gpac
./configure --enable-sanitizer
make -j$(nproc)
./bin/gcc/MP4Box -bt poc
```

POC

https://github.com/FDU-Sec/poc/blob/main/gpac/poc

```
[iso file] Box "emsg" (start 0) has 20 extra bytes
[iso file] Read Box type 0000bl (0x0000626C) at position 709 has size 0 but is not at root/file
level. Forbidden, skipping end of parent box !
[iso file] Box "minf" (start 645) has 3344 extra bytes
[iso file] Track with no sample table !
[iso file] Track with no sample description box !
[iso file] Incomplete box mdat - start 4159 size 68
[iso file] Incomplete file while reading for dump - aborting parsing
[iso file] Box "emsg" (start 0) has 20 extra bytes
[iso file] Read Box type 0000bl (0x0000626C) at position 709 has size 0 but is not at root/file
level. Forbidden, skipping end of parent box !
[iso file] Box "minf" (start 645) has 3344 extra bytes
[iso file] Track with no sample table !
[iso file] Track with no sample description box !
[iso file] Incomplete box mdat - start 4159 size 68
[iso file] Incomplete file while reading for dump - aborting parsing
Scene loaded - dumping root scene
______
==62092==ERROR: LeakSanitizer: detected memory leaks
Direct leak of 16 byte(s) in 1 object(s) allocated from:
    #0 0x7f4e18113b40 in __interceptor_malloc (/usr/lib/x86_64-linux-gnu/libasan.so.4+0xdeb40)
    #1 0x7f4e15492e5d in gf list new utils/list.c:601
    #2 0x7f4e159acd1c in gf_isom_parse_movie_boxes_internal isomedia/isom_intern.c:775
    #3 0x7f4e159af13b in gf isom parse movie boxes isomedia/isom intern.c:868
    #4 0x7f4e159af13b in gf_isom_open_file isomedia/isom_intern.c:988
    #5 0x558bdd469254 in mp4box_main /gpac/applications/mp4box/mp4box.c:6175
    #6 0x7f4e134d2c86 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x21c86)
Direct leak of 16 byte(s) in 1 object(s) allocated from:
    #0 0x7f4e18113b40 in __interceptor_malloc (/usr/lib/x86_64-linux-gnu/libasan.so.4+0xdeb40)
    #1 0x7f4e15492e5d in gf_list_new utils/list.c:601
    #2 0x7f4e159acd1c in gf isom parse movie boxes internal isomedia/isom intern.c:775
    #3 0x7f4e159af13b in gf_isom_parse_movie_boxes isomedia/isom_intern.c:868
    #4 0x7f4e159af13b in gf_isom_open_file isomedia/isom_intern.c:988
    #5 0x558bdd47b106 in dump_isom_scene /gpac/applications/mp4box/filedump.c:166
    #6 0x558bdd4654b4 in mp4box_main /gpac/applications/mp4box/mp4box.c:6336
    #7 0x7f4e134d2c86 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x21c86)
Indirect leak of 96 byte(s) in 1 object(s) allocated from:
    #0 0x7f4e18113b40 in __interceptor_malloc (/usr/lib/x86_64-linux-gnu/libasan.so.4+0xdeb40)
    #1 0x7f4e1593720d in emsg box new isomedia/box code base.c:12515
    #2 0x7f4e15982447 in gf isom box new ex isomedia/box funcs.c:1718
    #3 0x7f4e15982447 in gf_isom_box_parse_ex isomedia/box_funcs.c:247
    #4 0x7f4e15983a7c in gf_isom_parse_root_box isomedia/box_funcs.c:38
    #5 0x7f4e159a927c in gf_isom_parse_movie_boxes_internal isomedia/isom_intern.c:378
    #6 0x7f4e159af13b in gf_isom_parse_movie_boxes isomedia/isom_intern.c:868
    #7 0x7f4e159af13b in gf_isom_open_file isomedia/isom_intern.c:988
    #8 0x558bdd47b106 in dump_isom_scene /gpac/applications/mp4box/filedump.c:166
    #9 0x558bdd4654b4 in mp4box_main /gpac/applications/mp4box/mp4box.c:6336
    #10 0x7f4e134d2c86 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x21c86)
```

```
Indirect leak of 96 byte(s) in 1 object(s) allocated from:
   #0 0x7f4e18113b40 in interceptor malloc (/usr/lib/x86 64-linux-gnu/libasan.so.4+0xdeb40)
   #1 0x7f4e1593720d in emsg_box_new isomedia/box_code_base.c:12515
   #2 0x7f4e15982447 in gf isom box new ex isomedia/box funcs.c:1718
   #3 0x7f4e15982447 in gf_isom_box_parse_ex isomedia/box_funcs.c:247
   #4 0x7f4e15983a7c in gf_isom_parse_root_box isomedia/box_funcs.c:38
   #5 0x7f4e159a927c in gf_isom_parse_movie_boxes_internal isomedia/isom_intern.c:378
   #6 0x7f4e159af13b in gf_isom_parse_movie_boxes isomedia/isom_intern.c:868
   #7 0x7f4e159af13b in gf_isom_open_file isomedia/isom_intern.c:988
   #8 0x558bdd469254 in mp4box main /gpac/applications/mp4box/mp4box.c:6175
   #9 0x7f4e134d2c86 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x21c86)
Indirect leak of 80 byte(s) in 1 object(s) allocated from:
   #0 0x7f4e18113f30 in realloc (/usr/lib/x86_64-linux-gnu/libasan.so.4+0xdef30)
   #1 0x7f4e1549307e in realloc_chain utils/list.c:621
   #2 0x7f4e1549307e in gf list add utils/list.c:630
   #3 0x7f4e159aa6d0 in gf_isom_parse_movie_boxes_internal isomedia/isom_intern.c:776
   #4 0x7f4e159af13b in gf_isom_parse_movie_boxes isomedia/isom_intern.c:868
   #5 0x7f4e159af13b in gf_isom_open_file isomedia/isom_intern.c:988
   #6 0x558bdd47b106 in dump_isom_scene /gpac/applications/mp4box/filedump.c:166
   #7 0x558bdd4654b4 in mp4box main /gpac/applications/mp4box/mp4box.c:6336
   #8 0x7f4e134d2c86 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x21c86)
Indirect leak of 80 byte(s) in 1 object(s) allocated from:
   #0 0x7f4e18113f30 in realloc (/usr/lib/x86 64-linux-gnu/libasan.so.4+0xdef30)
   #1 0x7f4e1549307e in realloc_chain utils/list.c:621
   #2 0x7f4e1549307e in gf list add utils/list.c:630
   #3 0x7f4e159aa6d0 in gf_isom_parse_movie_boxes_internal isomedia/isom_intern.c:776
   #4 0x7f4e159af13b in gf_isom_parse_movie_boxes isomedia/isom_intern.c:868
   #5 0x7f4e159af13b in gf_isom_open_file isomedia/isom_intern.c:988
   #6 0x558bdd469254 in mp4box_main /gpac/applications/mp4box/mp4box.c:6175
   #7 0x7f4e134d2c86 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x21c86)
```

Environment

Ubuntu 18.04.5 LTS Clang 10.0.1 gcc 7.5.0

Credit

Peng Deng (Fudan University)



SUMMARY: AddressSanitizer: 384 byte(s) leaked in 6 allocation(s).

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

1 participant

