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Memory Leak in dimC_box_read at isomedia/box_code_3gpp.c:1060 #2307



○ Closed) Janette88 opened this issue 26 days ago · 1 comment

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Janette88 commented 26 days ago • edited 🕶
Description
Memory Leak in dimC_box_read at isomedia/box_code_3gpp.c:1060
System info
ubuntu 20.04 lts
version info
    ./MP4Box -version
  MP4Box - GPAC version 2.1-DEV-rev460-g9d963dc62-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:
   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_DI
compile
./configure --enable-sanitizer
make
crash command:
./MP4Box -bt poc_ml
https://github.com/Janette88/test_pocs/blob/main/poc_ml
Here is output by ASAN:
   [ISOBMFF] AV1ConfigurationBox: read only 4 bytes (expected 16).
  [iso file] Box "av1C" (start 20) has 12 extra bytes
[isom] not enough bytes in box dimC: 0 left, reading 1 (file isomedia/box_code_3gpp.c, line 1082)
[iso file] Read Box "dimC" (start 44) failed (Invalid IsoMedia File) - skipping
   Error opening file /home/fuzz/test/poc_ml: Invalid IsoMedia File
   ==71539==ERROR: LeakSanitizer: detected memory leaks
  Direct leak of 2566 byte(s) in 1 object(s) allocated from:

#0 0x7Fe8c635F808 in __interceptor_malloc ../../../../src/libsanitizer/asan/asan_malloc_linux.cc:144

#1 0x7Fe8c2ef8039 in dimc_box_read isomedia/box_code_3ppp.c:1060

#2 0x7Fe8c2fb75c3 in gf_isom_box_read isomedia/box_funcs.c:1866
        #3 0x7fe8c2fb75c3 in gf_isom_box_parse_ex isomedia/box_funcs.c:271
        #4 0x7fe8c2fb8a15 in gf_isom_parse_root_box isomedia/box_funcs.c:38
#5 0x7fe8c2fe1a8c in gf_isom_parse_movie_boxes_internal isomedia/isom_intern.c:378
        #6 0x7fe8c2fe7ca1 in gf_isom_parse_movie_boxes isomedia/isom_intern.c:868 #7 0x7fe8c2fe7ca1 in gf_isom_open_file isomedia/isom_intern.c:988
        #8 0x55c56a3e9139 in mp4box_main /home/fuzz/gpac/applications/mp4box/mp4box.c:6209
        #9 0x7fe8c0558082 in __libc_start_main ../csu/libc-start.c:308
   SUMMARY: AddressSanitizer: 2566 byte(s) leaked in 1 allocation(s).
code location:
  GF_Err dimC_box_read(GF_Box *s, GF_BitStream *bs)
             u32 i, msize;
GF_DIMSSceneConfigBox *p = (GF_DIMSSceneConfigBox *)s;
              ISOM_DECREASE_SIZE(p, 3);
              p->profile = gf_bs_read_u8(bs);
              p->level = gf_bs_read_u8(bs);
             p->pathComponents = gf_bs_read_int(bs, 4);
p->fullRequestHost = gf_bs_read_int(bs, 1);
             p->streamType = gf_bs_read_int(bs, 1);
p->containsRedundant = gf_bs_read_int(bs, 2);
              \label{eq:char}  \text{char *str = gf_malloc(sizeof(char)*(p->size+1));} \qquad \text{//line 1060 here p->size+1 = 2566} 
              if (!str) return GF_OUT_OF_MEM;
             msize = (u32) p->size;
str[msize] = 0;
              while (i < msize) {
                        ISOM_DECREASE_SIZE(p, 1);
                        str[i] = gf_bs_read_u8(bs);
                        if (!str[i]) break;
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i++;

| if (1 == msize) {
| gf_free(str);
| return G_JSOM_INVALID_FILE;
| }

| p->textincoding = gf_strdup(str);
| i=0;
| str[0]=0;
| while (i < msize) {
| ISOM_DECREASE_SIZE(p, 1); //line :1882 not enough bytes in box dimC: 0 left, reading 1
| str[1] = gf_DS_read_uB(bS);
| if (istr[1]) break;
| i++;
| }
| if (1 == msize) {
| gf_free(str);
| return GF_JSOM_INVALID_FILE;
| }
| p->contentEncoding = gf_strdup(str);
| gf_free(str);
| if (1) = msize) {
| pf_pree(str);
| if (1) = msize) {
| pf_pree(
```

jeanlf closed this as completed in f045be5 26 days ago

jeanlf commented 26 days ago

indeed thanks for the cross-check

Assignees
No one assigned

Labels
None yet

Projects
None yet

Milestone
No milestone
Development
No branches or pull requests

2 participants

