

New issue

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## AddressSanitizer: heap-buffer-overflow media\_tools/mpegts.c:1471 in gf\_m2ts\_section\_complete #1422

Closed

3 tasks done

dr3dd589 opened this issue on Mar 1, 2020 · 0 comments

dr3dd589 commented on Mar 1, 2020

Thanks for reporting your issue. Please make sure these boxes are checked before submitting your issue - thank you!

- ☒ I looked for a similar issue and couldn't find any.
- ☒ I tried with the latest version of GPAC. Installers available at <http://gpac.io/downloads/gpac-nightly-builds/>
- ☒ I give enough information for contributors to reproduce my issue (meaningful title, github labels, platform and compiler, command-line ...). I can share files anonymously with this dropbox: [https://www.mediafire.com/filedrop/filedrop\\_hosted.php?drop=eec9e058a9486fe4e99c33021481d9e1826ca9dbc242a6cfaab0fe95da5e5d95](https://www.mediafire.com/filedrop/filedrop_hosted.php?drop=eec9e058a9486fe4e99c33021481d9e1826ca9dbc242a6cfaab0fe95da5e5d95)

Detailed guidelines: <http://gpac.io/2013/07/16/how-to-file-a-bug-properly/>

System info:

Ubuntu 18.04.6 LTS, X64, gcc version 7.4.0, gpac (latest master 4a7a63)

Compile Command:

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

Run Command:

```
./MP4Box -dash 1000 crash_2
```

ASAN info:

```
=====
==12759==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x602000000d3 at pc 0x55feb146edf3 bp 0x7fff627852e0 sp 0x7fff627852d0
READ of size 1 at 0x602000000d3 thread T0
#0 0x55feb146edf2 in gf_m2ts_section_complete media_tools/mpegts.c:1471
#1 0x55feb146f3ab in gf_m2ts_gather_section media_tools/mpegts.c:1740
#2 0x55feb147524c in gf_m2ts_process_packet media_tools/mpegts.c:3440
#3 0x55feb147524c in gf_m2ts_process_data media_tools/mpegts.c:3507
#4 0x55feb1484886 in gf_m2ts_probe_file media_tools/mpegts.c:4641
#5 0x55feb13ac7f0 in gf_dash_segmenter_probe_input media_tools/dash_segmenter.c:5505
#6 0x55feb13d350a in gf_dasher_add_input media_tools/dash_segmenter.c:6669
#7 0x55feb0faea6f in mp4boxMain /home/dr3dd/fuzzing/gpac/applications/mp4box/main.c:4704
#8 0x7f1e4bd95b96 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x21b96)
#9 0x55feb0f9d7a9 in _start (/home/dr3dd/fuzzing/gpac/bin/gcc/MP4Box+0x1657a9)

0x602000000d3 is located 0 bytes to the right of 3-byte region [0x602000000d0,0x602000000d3)
allocated by thread T0 here:
#0 0x7f1e4ca1df40 in realloc (/usr/lib/x86_64-linux-gnu/libasan.so.4+0xdef40)
#1 0x55feb146f309 in gf_m2ts_gather_section media_tools/mpegts.c:1730
```

SUMMARY: AddressSanitizer: heap-buffer-overflow media\_tools/mpegts.c:1471 in gf\_m2ts\_section\_complete

Shadow bytes around the buggy address:

```
0x0c047fff7fc0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x0c047fff7fd0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x0c047fff7fe0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x0c047fff7ff0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x0c047fff8000: fa fa 02 fa fa fa 00 00 fa fa 00 00 fa fa 00 00
=>0x0c047fff8010: fa fa 00 00 fa fa 00 00 fa fa[03]fa fa fa fa fa
0x0c047fff8020: fa fa fa fa fa fa fa fa fa fa fa fa fa fa fa fa
0x0c047fff8030: fa fa fa fa fa fa fa fa fa fa fa fa fa fa fa fa
0x0c047fff8040: fa fa fa fa fa fa fa fa fa fa fa fa fa fa fa fa
0x0c047fff8050: fa fa fa fa fa fa fa fa fa fa fa fa fa fa fa fa
0x0c047fff8060: 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
==12759==ABORTING
```

gdb Info:

```
Program received signal SIGSEGV, Segmentation fault.
0x000055555d45a2d in gf_m2ts_process_pmt (ts=<optimized out>, pmt=<optimized out>, sections=<optimized out>,
    table_id=<optimized out>, ex_table_id=<optimized out>, version_number=<optimized out>,
    last_section_number=<optimized out>, status=<optimized out>) at media_tools/mpegts.c:2535
2535         gf_list_add(pmt->program->streams, es);
(gdb) bt
#0 0x000055555d45a2d in gf_m2ts_process_pmt (ts=<optimized out>, pmt=<optimized out>, sections=<optimized out>,
    table_id=<optimized out>, ex_table_id=<optimized out>, version_number=<optimized out>,
    last_section_number=<optimized out>, status=<optimized out>) at media_tools/mpegts.c:2535
```

```
last_section_number=<optimized out>, status=<optimized out>) at media_tools/mpegts.c:2535
#1 0x00055555d35506 in gf_m2ts_section_complete (ts=ts@entry=0x5555562c5a40, sec=sec@entry=0x5555562d7440,
ses=ses@entry=0x5555562d7390) at media_tools/mpegts.c:1610
#2 0x00055555d3638a in gf_m2ts_gather_section (ts=ts@entry=0x5555562c5a40, sec=0x5555562d7440,
ses=ses@entry=0x5555562d7390, data=0x7fffffffa6821 "", data@entry=0x7fffffffa681a "", data_size=<optimized out>,
hdr=<optimized out>, hdr=<optimized out>) at media_tools/mpegts.c:1740
#3 0x00055555d3f3be in gf_m2ts_process_packet (data=0x7fffffffa681a "", ts=0x5555562c5a40)
at media_tools/mpegts.c:3446
#4 gf_m2ts_process_data (ts=ts@entry=0x5555562c5a40, data=data@entry=0x7fffffffa6700 "", data_size=<optimized out>)
at media_tools/mpegts.c:3507
#5 0x00055555d54ca1 in gf_m2ts_probe_file (fileName=<optimized out>) at media_tools/mpegts.c:4641
#6 0x00055555b0844 in gf_dash_segmenter_probe_input (io_dash_inputs=io_dash_inputs@entry=0x5555562c4978,
nb_dash_inputs=nb_dash_inputs@entry=0x5555562c4980, idx=idx@entry=0) at media_tools/dash_segmenter.c:5505
#7 0x00055555c2dabb in gf_dasher_add_input (dasher=0x5555562c4970, input=<optimized out>)
at media_tools/dash_segmenter.c:6669
#8 0x000555555c88f5 in mp4boxMain (argc=<optimized out>, argv=<optimized out>) at main.c:4704
#9 0x0007ffff722bb97 in __libc_start_main () from /lib/x86_64-linux-gnu/libc.so.6
#10 0x00055555a3e0a in _start () at main.c:5985
```

here is crash file:

[crash\\_2.zip](#)

Thanks

dr3dd

 aureliendavid closed this as completed in [8c5e847](#) on Mar 6, 2020

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

1 participant

