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Heap-based Buffer Overflow #2061

⊘ Closed

rbouqueau opened this issue on Jan 21 · 0 comments

rbouqueau commented on Jan 21 Contributor Proof of Concept Version: MP4Box - GPAC version 1.1.0-DEV-rev1646-gddd7990bb-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: --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 рос base64 poc //7/AGUKCio= command: ./MP4Box -info poc Result _____ ==1529455==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x602000001a1a at pc 0x00000043e343 bp 0x7ffeafafa9a0 sp 0x7ffeafafa158 READ of size 11 at 0x602000001a1a thread T0 #0 0x43e342 in StrstrCheck(void*, char*, char const*, char const*) (/home/aidai/fuzzing/gpac/gpac-asan/bin/gcc/MP4Box+0x43e342) #1 0x43e171 in strstr (/home/aidai/fuzzing/gpac/gpac-asan/bin/gcc/MP4Box+0x43e171) #2 0x7f61341e32d7 in ctxload_probe_data /home/aidai/fuzzing/gpac/gpacasan/src/filters/load_bt_xmt.c:837:6

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#3 0x7f6134037b52 in gf filter pid raw new /home/aidai/fuzzing/gpac/gpac-
asan/src/filter core/filter.c:3777:13
   #4 0x7f6134153a31 in filein_process /home/aidai/fuzzing/gpac/gpac-
asan/src/filters/in_file.c:481:7
   #5 0x7f6134030e3a in gf_filter_process_task /home/aidai/fuzzing/gpac/gpac-
asan/src/filter_core/filter.c:2515:7
   #6 0x7f613401015f in gf_fs_thread_proc /home/aidai/fuzzing/gpac/gpac-
asan/src/filter_core/filter_session.c:1756:3
   #7 0x7f613400de3e in gf_fs_run /home/aidai/fuzzing/gpac/gpac-
asan/src/filter core/filter session.c:2000:2
   #8 0x7f6133c4d27e in gf_media_import /home/aidai/fuzzing/gpac/gpac-
asan/src/media tools/media import.c:1218:3
   #9 0x524fe4 in convert file info /home/aidai/fuzzing/gpac/gpac-
asan/applications/mp4box/fileimport.c:128:6
   #10 0x4f45c2 in mp4boxMain /home/aidai/fuzzing/gpac/gpac-
asan/applications/mp4box/main.c:6063:6
   #11 0x7f61332740b2 in __libc_start_main /build/glibc-eX1tMB/glibc-2.31/csu/../csu/libc-
start.c:308:16
   #12 0x429b7d in _start (/home/aidai/fuzzing/gpac/gpac-asan/bin/gcc/MP4Box+0x429b7d)
0x602000001a1a is located 0 bytes to the right of 10-byte region [0x602000001a10,0x602000001a1a)
allocated by thread T0 here:
   #0 0x4a22bd in malloc (/home/aidai/fuzzing/gpac/gpac-asan/bin/gcc/MP4Box+0x4a22bd)
   #1 0x7f613372a4fb in gf_utf_get_utf8_string_from_bom /home/aidai/fuzzing/gpac/gpac-
asan/src/utils/utf.c:680:14
SUMMARY: AddressSanitizer: heap-buffer-overflow (/home/aidai/fuzzing/gpac/gpac-
asan/bin/gcc/MP4Box+0x43e342) in StrstrCheck(void*, char*, char const*, char const*)
Shadow bytes around the buggy address:
 0x0c047fff82f0: fa fa 00 00 fa fa 04 fa fa 64 fa fa 60 00
 0x0c047fff8300: fa fa 00 00 fa fa 04 fa fa fa 00 00 fa fa 06 fa
 0x0c047fff8310: fa fa 00 00 fa fa 00 00 fa fa 00 00 fa fa 00 00
 0x0c047fff8320: fa fa 00 00 fa fa fd fa fa fa 00 00 fa fa 00 00
 0x0c047fff8330: fa fa 04 fa fa fa 04 fa fa fa fa fa fd fd
=>0x0c047fff8340: fa fa 00[02]fa fa fa fa fa fa fa fa fa fa
 Shadow byte legend (one shadow byte represents 8 application bytes):
 Addressable:
 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:
 Global init order:
                       f6
                       f7
 Poisoned by user:
 Container overflow:
                       fc
 Array cookie:
                       ac
 Intra object redzone:
                       hh
```

ASan internal: fe
Left alloca redzone: ca
Right alloca redzone: cb
Shadow gap: cc
==1529455==ABORTING

a jeanlf closed this as completed in 96699aa on Jan 21

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

1 participant

