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heap-buffer-overflow isomedia/isom_intern.c:227 in FixSDTPInTRAF #2278



17ssDP opened this issue on Oct 9 · 0 comments

17ssDP commented on Oct 9

Description

Heap-buffer-overflow in isomedia/isom_intern.c:227 in FixSDTPInTRAF

Version

Replay

```
git clone https://github.com/gpac/gpac.git
cd gpac
./configure --enable-sanitizer
make -j$(nproc)
./bin/gcc/MP4Box -bt mp4box-bt-heap-buffer-over-flow-0
```

POC

ASAN

```
[iso file] Unknown box type sjhm in parent sinf
[iso file] Unknown box type sgp00 in parent stbl
[iso file] Read Box type 00000000 (0x00000000) at position 2168 has size 0 but is not at root/file
level. Forbidden, skipping end of parent box !
[iso file] Box "traf" (start 2028) has 458 extra bytes
[iso file] Unknown box type shgp in parent traf
______
==31145==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x602000001914 at pc
0x7fe0339cbbf8 bp 0x7ffc2041a330 sp 0x7ffc2041a320
READ of size 1 at 0x602000001914 thread T0
   #0 0x7fe0339cbbf7 in FixSDTPInTRAF isomedia/isom intern.c:227
   #1 0x7fe0339cbbf7 in gf isom parse movie boxes internal isomedia/isom intern.c:663
   #2 0x7fe0339ce0e5 in gf isom parse movie boxes isomedia/isom intern.c:866
   #3 0x7fe0339ce0e5 in gf isom open file isomedia/isom intern.c:986
   #4 0x55ec82396048 in mp4box_main /home/fuzz/dp/chunkfuzzer-evaluation/benchmark/gpac-
asan/applications/mp4box/mp4box.c:6175
   #5 0x7fe032987c86 in libc start main (/lib/x86 64-linux-gnu/libc.so.6+0x21c86)
   #6 0x55ec823690a9 in _start (/home/fuzz/dp/chunkfuzzer-evaluation/benchmark/gpac-
asan/bin/gcc/MP4Box+0x4e0a9)
0x602000001914 is located 0 bytes to the right of 4-byte region [0x602000001910,0x602000001914)
allocated by thread T0 here:
   #0 0x7fe035ef3b40 in interceptor malloc (/usr/lib/x86 64-linux-gnu/libasan.so.4+0xdeb40)
   #1 0x7fe0338a4541 in sdtp_box_read isomedia/box_code_base.c:8354
SUMMARY: AddressSanitizer: heap-buffer-overflow isomedia/isom_intern.c:227 in FixSDTPInTRAF
Shadow bytes around the buggy address:
 0x0c047fff82d0: fa fa 00 00 fa fa 00 00 fa fa 01 fa fa fa 00 00
 0x0c047fff82e0: fa fa 00 00 fa fa 00 00 fa fa 00 00 fa fa fd fd
 0x0c047fff82f0: fa fa 00 00 fa fa 00 00 fa fa 00 00 fa fa 00 00
 0x0c047fff8300: fa fa 00 fa fa fa 00 00 fa fa 00 07 fa fa 00 00
 0x0c047fff8310: fa fa 00 fa fa fa 00 00 fa fa 00 00 fa fa 00 00
=>0x0c047fff8320: fa fa[04]fa fa fa 00 00 fa fa 00 00 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
==31145==ABORTING

Environment

Ubuntu 16.04 Clang 10.0.1 gcc 5.5

jeanlf closed this as completed in 3661da2 on Oct 10

Assignees
No one assigned

Labels
None yet

Projects
None yet

Milestone
No milestone

Development
No branches or pull requests

1 participant

