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[security]heap buffer overlow in MP4Box print_udta #1765

⊙ Closed) 5n1p3r0010 opened this issue on Apr 29, 2021 · 0 comments

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5n1p3r0010 commented on Apr 29, 2021
Hi.
There is a heap buffer overflow issue in gpac MP4Box print_udta,this can reproduce on the lattest commit.
build:
  CC=gcc CXX=g++ CFLAGS="-fsanitize=address" CXXFLAGS="-fsanitize=address" LDFLAGS="-fsanitize=address" ./configure --enable-debug
run as:
shows the following log
    =3138155==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x61900001dc6 at pc 0x7fcee1b21dbb bp 0x7ffedaaa00b0 sp 0x7ffedaa9f828
   READ of size 1095 at 0x619000001dc6 thread T0
       #0 0x7fceelb21dab (/lib/x86_64-linux-gnu/libasan.so.5+0x9cdba)
#1 0x7fceelb22fa6 in vfprintf (/lib/x86_64-linux-gnu/libasan.so.5+0x9dfa6)
       #2 0x7fceelb230ae in _interceptor_fprintf (/lib/x86_64-linux-gnu/libasan.so.5+0x9e0ae)
#3 0x55cca7eb582c in _print_udta /home/r00t/fuzz/target/tmp/gpac/applications/mp4box/filedump.c:1903
       #4 0x55cca7ebe071 in DumpMovieInfo /home/r00t/fuzz/target/tmp/gpac/applications/mp4box/filedump.c:3587 #5 0x55cca7eab8f5 in mp4boxMain /home/r00t/fuzz/target/tmp/gpac/applications/mp4box/main.c:5904
       #6 0x55cca7ead653 in main /home/r00t/fuzz/target/tmp/gpac/applications/mp4box/main.c:6335 #7 0x7fcee0eeb0b2 in _libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x270b2)
       #8 0x55cca7e992ad in _start (/home/r00t/fuzz/target/tmp/gpac/bin/gcc/MP4Box+0x182ad)
   0x619000001dc6 is located 0 bytes to the right of 1094-byte region [0x619000001980,0x619000001dc6) allocated by thread T0 here:
       #0 0x7fcee1b92bc8 in malloc (/lib/x86_64-linux-gnu/libasan.so.5+0x10dbc8) #1 0x7fcee11660f0 in gf_malloc utils/alloc.c:150
       #2 0x7fcee1375ba9 in gf isom get user data isomedia/isom read.c:2683
       #3 0x55cca7eb57c4 in print_udta /home/r00t/fuzz/target/tmp/gpac/applications/mp4box/filedump.c:1896 #4 0x55cca7ebe071 in DumpMovieInfo /home/r00t/fuzz/target/tmp/gpac/applications/mp4box/filedump.c:3587
       #5 0x55cca7eab8f5 in mp4boxMain /home/r00t/fuzz/target/tmp/gpac/applications/mp4box/main.c:5904
       #6 0x55cca7ead653 in main /home/r00t/fuzz/target/tmp/gpac/applications/mp4box/main.c:6335 #7 0x7fcee0eeb0b2 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x270b2)
   SUMMARY: AddressSanitizer: heap-buffer-overflow (/lib/x86_64-linux-gnu/libasan.so.5+0x9cdba)
   Shadow bytes around the buggy address:
     Shadow byte legend (one shadow byte represents 8 application bytes):
     Addressable:
     Partially addressable: 01 02 03 04 05 06 07 Heap left redzone:
     Freed heap region:
     Stack left redzone:
Stack mid redzone:
     Stack right redzone:
                                 f3
     Stack after return:
Stack use after scope:
     Global init order:
     Poisoned by user:
     Container overflow:
     Array cookie:
Intra object redzone:
     ASan internal:
Left alloca redzone:
     Right alloca redzone:
   Shadow gap:
==3138155==ABORTING
5n1p3r0010 from Topsec Alpha Lab
 heap-overflow_print_udta.zip
```

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

