

Oclosed dhbbb opened this issue on Jul 5, 2021 · 1 comment

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dhbbb commented on Jul 5, 2021
 Hello,
A heap-buffer-overflow has occurred when running program MP4Box, this can reproduce on the lattest commit.
System info:
 Úbuntu 20.04.1 : clang 10.0.0 , gcc 9.3.0
poc1.zip
Verification steps:
1.Get the source code of gpac
2.Compile
     cd gpac-master
     CC=gcc CXX=g++ CFLAGS="-fsanitize=address" CXXFLAGS="-fsanitize=address" ./configure
     make
3.run MP4Box
     ./MP4Box -hint poc -out /dev/null
 asan info
     = +47156 = \text{ERROR: AddressSanitizer: heap-buffer-overflow on address } \\ 0x602000001892 \text{ at pc } \\ 0x7f5f1dea9b2c \text{ bp } \\ 0x7ffe02fd8810 \text{ sp } \\ 0x7ffe02fd8800 \\ \text{READ of size 1 at } \\ 0x602000001892 \text{ thread T0} \\ 0x7ffe02fd8800 \\ \text{READ of size 1 at } \\ 0x7ffe02fd8810 \text{ sp } \\ 0x7ffe02fd8800 \\ \text{READ of size 1 at } \\ 0x7ffe02fd8810 \text{ sp } \\ 0x7ffe02fd8800 \\ \text{READ of size 1 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 1 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 1 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 1 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 1 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 1 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 1 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 1 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 1 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 1 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 1 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 2 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe02fd8800 \\ \text{READ of size 3 at } \\ 0x7ffe0
               #0 0x7f5f1dea9b2b in gp_rtp_builder_do_tx3g ietf/rtp_pck_3gpp.c:399
             #10 xx75f12e76148a in gf_hinter_track_process media_tools/isom_hinter.c:808
#2 0x5622a222e2b in HintFile /home/.../gpac/gpac-master/applications/mp4box/main.c:3499
#3 0x5622a2224054 in mp4boxMain /home/.../gpac/gpac-master/applications/mp4box/main.c:6297
#4 0x75f3t3d990b2 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x270b2)
#5 0x5622a21f6f1d in _start (/home/.../gpac/gpac-master/bin/gcc/MP4Box+0x48f1d)
      0x602000001892 is located 0 bytes to the right of 2-byte region [0x602000001890,0x602000001892)
     allocated by thread T0 here:
               #0 0x7f5f20277bc8 in malloc (/lib/x86_64-linux-gnu/libasan.so.5+0x10dbc8)
               #1 0x7f5f1e29d6cd in Media GetSample isomedia/media.c:617
      SUMMARY: AddressSanitizer: heap-buffer-overflow ietf/rtp_pck_3gpp.c:399 in gp_rtp_builder_do_tx3g
     0x0c047fff82e0: fa fa fd fa fa fa 00 00 fa fa 00 00 fa fa 00 00
          0x0c047fff82f0: fa fa 00 00 fa fa 00 00 fa fa 00 00 fa fa 00 00 0x0c047fff8300: fa fa 00 00 fa fa 00 00 fa fa 00 00 fa fa 00 00 fa fa 00 00
     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:
          Stack left redzone:
           Stack mid redzone:
          Stack right redzone:
                                                               f3
          Stack after return:
Stack use after scope:
         Global redzone:
Global init order:
         Poisoned by user:
                                                               f7
          Container overflow:
          Arrav cookie:
          Intra object redzone:
          ASan internal:
          Left alloca redzone:
          Right alloca redzone:
                                                               cb
      Shadow gap:
==47156==ABORTING
source code
                      pay_start = 2;
     397
                      if (txt_size>2) {
                                        /*seems 3GP only accepts BE UTF-16 (no LE, no UTF32)*/
     398
                                       if (((u8) data[2]==(u8) 0xFE) && ((u8) data[3]==(u8) 0xFF)) {
     400
401
                                                        is_utf_16 = GF_TRUE;
pay_start = 4;
     402
                                                        txt_size -= 2;
                                      }
     404
     405
                      samp_size = data_size - pay_start;
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**(a)** jeanlf closed this as completed in 13442ec on Jul 6, 2021

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dhbbb commented on Aug 5, 2021

This is CVE-2021-36584

Author
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abels None yet	
Projects Jone yet	
dilestone No milestone	
Development No branches or pull requests	

1 participant

