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A integer (heap) overflow in function adts_dmx_process #1723



```
○ Closed treebacker opened this issue on Mar 29, 2021 · 1 comment
 treebacker commented on Mar 29, 2021
 In filters/reframe_adts.c , function adts_dmx_process
 There is a sub codes like as below:
 size = ctx->hdr.frame size - ctx->hdr.hdr size;
 offset = ctx->hdr.hdr_size;
 memcpy(output, sync + offset, size);
 However, with crafted file, ctx->hdr.frame_size may be smaller than ctx->hdr.hdr_size.
 So, the size may be a negative number, which results a heap overflow in memcpy.
 In Command line:
  a/gpac-1.0.1$./debug_bin/gcc/gpac -info ~/tr =_acr = __ =/gpac/uniq/bu
  starting program: ______abbarker/".
[Thread debugging using libthread_do endoced]
Using host libthread_db library "/lib/x86_64-linux-gnu/libthread_db.so.1".
    rogram received signal SIGSEGY, Segmentation fault.
_memmove_avx_unaligned_erms () at ../sysdeps/x86_64/multiarch/memmove-vec-unaligned-erms.S:435
35 ../sysdeps/x86_64/multiarch/memmove-vec-unaligned-erms.S: No such file or directory.
    gdb)'r
he program being debugged has been started already.
tart it from the beginning? (y or n) y
tarting program:
tarting program:
tarting program:
tarting program:
sing host libthread db enableo]
sing host libthread_db library "/lib/x86_64-linux-gnu/libthread_db.so.1".
    reakpoint 1, adts_dmx_process (filter=0x5555557a5d70) at filters/reframe_adts.c:715
15 ______memcoy(output, sync + offset, size);
   (gdb) p size
$1 = 4294967290
(gdb) p ctx->hdr.frame_size
      db) p output
= (u8 *) 0x7ffef3946010 ""
lb) n
     rogram received signal SIGSEGV, Segmentation fault.
memmove_avx_unaligned_erms () at ../sysdeps/x86_64/multiarch/memmove-vec-unaligned-erms.S:435
i../sysdeps/x86_64/multiarch/memmove-vec-unaligned-erms.S: No such file or directory.
 The crafted file is in the attached zip:
 bug6.zip
jeanlf added a commit that referenced this issue on Mar 29, 2021
      fixed potential crash in adts reframer with broken streams - cf #1723
                                                                                                                                                                                                                    ✓ 22774aa
```

jeanlf commented on Mar 29, 2021 Contributor could not reproduce crash with latest master, but added safety checks. Thanks for the report

(a) jeanlf closed this as completed on Mar 29, 2021

Assignees No one assigned		
No one assigned		
Labels		
None yet		
Projects		
None yet		
Milestone		
No milestone		

Development

No branches or pull requests

2 participants

