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A heap-buffer-overflow in mp4read.c:355:29 #57



○ Closed) seviezhou opened this issue on Aug 30, 2020 · 0 comments

```
seviezhou commented on Aug 30, 2020
System info
Ubuntu x86_64, clang 6.0, faad (latest master 1073ae)
Configure
CFLAGS="-g -fsanitize=address" LDFLAGS="-fsanitize=address" ./configure --enable-shared=no
Command line
./frontend/faad -w -b 5 @@
AddressSanitizer output
    ****** Ahead Software MPEG-4 AAC Decoder V2.9.2 ************
   Build: Aug 30 2020
   Copyright 2002-2004: Ahead Software AG http://www.audiocoding.com
   bug tracking: https://sourceforge.net/p/faac/bugs/
   Floating point version
   This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License.
  **** MP4 header ****
                          isom(version 512)
  Compatible brands:
                          isomiso2mp41
  *track media type: 'soun': OK
   ==36828==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x602000000010 at pc 0x000000051eaca bp 0x7ffe7db7e7f0 sp 0x7ffe7db7e7e8
  WRITE of size 4 at 0x60200000010 thread T0
      #0 0x51eac9 in stszin /home/seviezhou/faad2/frontend/mp4read.c:355:29
      #1 0x517c4d in parse /home/seviezhou/faad2/frontend/mp4read.c:766:19
      #2 0x517ec2 in parse /home/seviezhou/faad2/frontend/mp4read.c:790:24
      #3 0x517ec2 in parse /home/seviezhou/faad2/frontend/mp4read.c:790:24
      #4 0x517ec2 in parse /home/seviezhou/faad2/frontend/mp4read.c:790:24
      #5 0x517ec2 in parse /home/seviezhou/faad2/frontend/mp4read.c:790:24
#6 0x518cf8 in moovin /home/seviezhou/faad2/frontend/mp4read.c:867:15
      #7 0x517c4d in parse /home/seviezhou/faad2/frontend/mp4read.c:766:19
#8 0x5169a5 in mp4read_open /home/seviezhou/faad2/frontend/mp4read.c:1005:16
      #9 0x52de44 in decodeMP4file /home/seviezhou/faad2/frontend/main.c:830:9
      #10 0x52de44 in faad_main /home/seviezhou/faad2/frontend/main.c:1323
      #11 0x7f92a07fc83f in __libc_start_main /build/glibc-e6zv40/glibc-2.23/csu/../csu/libc-start.c:291
      #12 0x41a698 in _start (/home/seviezhou/faad2/frontend/faad+0x41a698)
  0x602000000011 is located 0 bytes to the right of 1-byte region [0x602000000010,0x602000000011)
  allocated by thread T0 here:
      #0 0x4de8a8 in __interceptor_malloc /home/seviezhou/llvm-6.0.0/projects/compiler-rt/lib/asan/asan_malloc_linux.cc:88 #1 0x5le387 in stszin /home/seviezhou/faad2/frontend/mp4read.c:348:28
      #2 0x517c4d in parse /home/seviezhou/faad2/frontend/mp4read.c:766:19 #3 0x517ec2 in parse /home/seviezhou/faad2/frontend/mp4read.c:790:24
      #4 0x517ec2 in parse /home/seviezhou/faad2/frontend/mp4read.c:790:24
      #5 0x517ec2 in parse /home/seviezhou/faad2/frontend/mp4read.c:790:24
      #6 0x517ec2 in parse /home/seviezhou/faad2/frontend/mp4read.c:790:24
      #7 0x518cf8 in moovin /home/seviezhou/faad2/frontend/mp4read.c:867:15
#8 0x517c4d in parse /home/seviezhou/faad2/frontend/mp4read.c:766:19
      #9 0x5169a5 in mp4read_open /home/seviezhou/faad2/frontend/mp4read.c:1005:16
#10 0x52de44 in decodeMP4file /home/seviezhou/faad2/frontend/main.c:830:9
      #11 0x52de44 in faad main /home/seviezhou/faad2/frontend/main.c:1323
      #12 0x7f92a07fc83f in __libc_start_main /build/glibc-e6zv40/glibc-2.23/csu/../csu/libc-start.c:291
  SUMMARY: AddressSanitizer: heap-buffer-overflow /home/seviezhou/faad2/frontend/mp4read.c:355:29 in stszin
  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:
    Stack after return:
    Stack use after scope:
Global redzone:
```

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
==36828=ABORTING

POC

heap-overflow-stszin-mp4read-355.zip



fabiangreffrath closed this as completed in 1b71a6b on Aug 31, 2020

Assignees
No one assigned

Labels
None yet

Projects
None yet

Milestone
No milestone
Development
No branches or pull requests

1 participant

