#8860 closed defect (duplicate)

A stack-buffer-overflow in aacdec_template.c:539:24

Reported by:	Zhou Anshunkang	Owned by:	
Priority:	normal	Component:	avcodec
Version:	git-master	Keywords:	aac
Cc:		Blocked By:	
Blocking:		Reproduced by developer:	no
Analyzed by	no		

Description

System info

Ubuntu x86 64, clang 6.0, ffmpeg (git-master https://github.com/FFmpeg/FFmpeg/commit/01a580f141627cfc8eae5de2300d2d93911887e3)

Configure

```
./configure --toolchain=clang-asan && make ffmpeg g
```

Command line

```
./ffmpeg_g -y -f mov /dev/null -i @@
```

```
AddressSanitizer
                 built with clang version 6.0.0-lubuntu2 (tags/RELEASE 600/final)
configuration: --disable-shared --enable-debug-3 --disable-ffplay --disable-ffpr
libavuti 56.58.100 / 56.58.100
libav6cmat 58.51.00 / 58.51.00 / 58.51.00
libav6cmat 58.51.00 / 58.51.00 / 58.51.00
libav6cmat 58.51.00 / 58.51.00
lace 0x61b00000080] Packet corrupt (stream = 0, dts = NOPTS).
lace 0x61b00000080] Packet corrupt (stream = 0, dts = NOPTS).
lace 0x61b000000580] Multiple frames in a packet.
lace 0x61b000000880] Multiple frames in a packet.
lace 0x61b000000880] Multiple frames in a packet.
lace 0x61b000000880] decoding for stream 0 failed
lace 0x61b000000880] decoding for stream 0 failed
lace 0x61b00000080] Estimating duration from bitrate, this may be inaccurate
lace 0x61b000000080] Could not find codec parameters for stream 0 (Audio: aac (Mostino) decoding for stream 0 failed
lace 0x61b00000080] Could not find codec parameters for stream 0 (Audio: aac (Mostino) decoding could be considered for the 'analyzeduration' (0) and 'probesize' (50000
lnput 00, acc, from 'home/seviexhou/stack-overflow-output_configure-aacdec_templa
Duration: 00:00:00.02, bitrate: 198 kb/s
Stream mapping:
Stream #0:0: Audio: aac (Main), 4.0, fltp, 198 kb/s
Stream mapping:
Stream #0:0: Audio: aac (Main), 4.0, fltp, 198 kb/s
Stream mapping:
Stream #0:0: Audio: aac (mative) -> aac (native))
Press [q] to stop, [?] for help
lace 0x61900001e80] Error decoding AAC frame header.
Error while decoding stream #0:0: Error decoding AAC frame header.
Error while decoding stream #0:0: at on timplemented. Update your FFmpeg version
lace 0x619000001e80] Sample rate index in program config
                      Address 0x7ffeac79c4b4 is located in stack of thread TO at offset 1012 in frame
#0 0x27ea7ef in aac_decode_frame_int /home/seviezhou/ffmpeg/libavcodec/aacd
```



stack-overflow-output_configure-aacdec_template-539(423 bytes) - added by Zhou Anshunkang 2 years stack-overflow-output_configure-aacdec_template-539

Change History (4)

by Zhou Anshunkang, 2 years ago Attachment: stack-overflow-output_configure-aacdec_template-539added stack-overflow-output configure-aacdec template-539 comment:1 by Carl Eugen Hoyos, 2 years ago in reply to: description



As said: Please use ./configure --toolchain=clang-asan && make ffmpeg_g instead to make your reports more readable. And maybe wait with opening more aac related reports until the ones you opened are fixed.

comment:2 by Zhou Anshunkang, 2 years ago

```
Use ./configure --toolchain=clang-asan && make ffmpeg_g:
                  e./configure --toolchain-clang-asan && make ffmpeg_g:

ffmpeg version N-98802-g01a580f141 Copyright (c) 2000-2020 the FEmpeg developers built with clang version 6.0.0-lubuntu2 (tags/RELEASE_600/final) configuration: --toolchaim-clang-asan libavuti1 5c. 58.100 / 56. 58.100
libavuti1 5c. 58.100 / 56. 58.100
libavecdec 58.101.100 / 58.101.100
libavecdec 58.101.100 / 58.101.100
libavecdec 58.101.101 / 58.101.100
libavecdec 58.100 / 58.101.101
libavititer 7. 87.100 / 7. 87.100
libswesample 5. 8.100 / 5. 8.100
libswesample 3. 8.100 / 3. 8.100
libswesample 3. 8.100 / 3. 8.100
libswesample 3. 8.100 / 3. 8.100
lace 0.0x61b000000080) Format aca detected only with low score of 1, misdetection pc [aace 0.0x61b000000880] Error decoding AAC frame header.
[aace 0.0x619000000580] More than one AAC RDB per ADTS frame is not implemented. Upda (aace 0.0x619000000580) Multiple frames in a packet.
[aace 0.0x619000000580] Multiple frames in a packet.
[aace 0.0x619000000580] channel element 3.6 is not allocated
[aace 0.0x61b000000080] decoding for stream 0 failed
[aace 0.0x61b000000080] Estimating duration from bitrate, this may be inaccurate
[aace 0.0x61b000000080] Could not find codec parameters for stream 0 (Audio: aac (Mac
Consider increasing the value for the 'analyzeduration' (0) and 'probesize' (5000001
Input #0, aac, from 'stack-overflow-output_configure-aacdec_template-539':
Duration: 00:00:00.02, bitrate: 198 kb/s
Stream mapping:
Stream #0:00 + #0:0 (aac (native) -> aac (native))
                      Stream #0:0: Audio: aac (Main), 4.0, fitp, 198 KD/S
Stream mapping:
Stream #0:0 -> #0:0 (aac (native) -> aac (native))
Press [q] to stop, [?] for help
[aac @ 0x619000001e80] Error decoding AAC frame header.
Error while decoding stream #0:0: Error number -50531338 occurred
[aac @ 0x619000001e80] Gain control is not implemented. Update your FFmpeg version (
[aac @ 0x619000001e80] Sample rate index in program config element does not match t
                    Address 0x7fffe9040e65 is located in stack of thread TO at offset 165 in frame
#0 0x2946f3f in aac_decode_frame /home/seviezhou/ffmpeg/libavcodec/aacdec_temple
                                    This frame has 4 object(s):
[32, 64) 'gb.i' (line 1113)
[96, 128) 'gb' (line 3413)
[160, 164) 'new extradata size' (line 3417) <== Memory access at offset 165 over [176, 180) 'jp @ualmono size' (line 3421)
INT: this may be a false positive if your program uses some custom stack unwind median size of the state of the
                         HINT:
                                      4
                      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: f5
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
                                        Array cookie:
Intra object redzone:
                                        ASan internal:
Left alloca redzone:
```



Fixed by Jan Ekström in d6f293353c94c7ce200f6e0975ae3de49787f91f

Note: See TracTickets for help on using tickets.