#2395 closed defect (fixed)

A heap-buffer-overflow occurred in function mov_build_index() of libmpdemux/demux_mov.c

Reported by:	ylzs	Owned by:	beastd
Priority:	normal	Component:	undetermined
Version:	HEAD	Severity:	major
Keywords:		Cc:	
Blocked By:		Blocking:	
Reproduced by developer:	no	Analyzed by developer:	no

Description (last modified by ylzs) Δ

Version: SVN-r38374-13.0.1

Build command: ../configure --disable-ffmpeg_a && make (compiling with asan)

MPlayer SVN-r38374-13.0.1 (C) 2000-2022 MPlayer Team

Summary of the bug: An heap-buffer-overflow is found in fucnction mov_build_index () which affects mplayer and mencoder. The attached file can reproduce this issue (ASAN-recompilation is needed).

How to reproduce:

1.Command: ./mplayer testcase

2.Result:

```
Playing
libavformat version 58.29.100 (external)
libavformat file format detected.
[mov,mp4,m4a,3gp,3g2,mj2 @ 0x7f665a275600] Version 22 is not implemented. Update
LAVF header: av open input stream() failed
ISO: File Type Major Brand: Original QuickTime
Quicktime/MOV file format detected.
[mov] Video stream found, -vid 0
Warning! pts=-285211648 length=2048
MOV: durmap and chunkmap sample count differ (1 vs 2)
______
==24664==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x60300001458
READ of size 4 at 0x603000014580 thread TO
   #0 0x563d661312e4 in mov build index /home/jlx/good mplayer/mplayer/libmpde
    #1 0x563d661312e4 in lschunks /home/jlx/good mplayer/mplayer/libmpdemux/dem
    #2 0x563d6611c88c in mov read header /home/jlx/good mplayer/mplayer/libmpde
0x603000014580 is located 0 bytes to the right of 32-byte region [0x60300001456
allocated by thread TO here:
    #0 0x563d65d5a362 in
                        interceptor calloc (/home/jlx/good mplayer/asan mpla
   #1 0x563d661263f0 in lschunks intrak /home/jlx/good mplayer/mplayer/libmpde
   #2 0x563d661263f0 in lschunks /home/jlx/good mplayer/mplayer/libmpdemux/dem
    #3 0x563d66123576 in lschunks intrak /home/jlx/good mplayer/mplayer/libmpde
    #4 0x563d66123576 in lschunks /home/jlx/good mplayer/mplayer/libmpdemux/dem
    #5 0x563d66123576 in lschunks intrak /home/jlx/good mplayer/mplayer/libmpde
    #6 0x563d66123576 in lschunks /home/jlx/good mplayer/mplayer/libmpdemux/dem
    #7 0x563d66123576 in lschunks_intrak /home/jlx/good mplayer/mplayer/libmpde
    #8 0x563d66123576 in lschunks /home/jlx/good mplayer/mplayer/libmpdemux/dem
    #9 0x563d66124068 in lschunks /home/ilx/good mplaver/mplaver/libmpdemux/dem
```

```
ono obdooth root in toomanno , nome, jin, good_mpidjer, mpidjer, iiompdeman, dem
  #10 0x563d6611c88c in mov read header /home/jlx/good mplayer/mplayer/libmpd
 0x0c067fffa860: 00 fa fa fa fd fd fd fa fa fd fd fd fd fa fa
 0x0c067fffa870: fd fd fd fd fa fa fd fd fd fa fa fa fd fd fd
 0x0c067fffa880: fa fa fd fd fa fa fa fd fd fd fa fa fa fd fd
 0x0c067fffa890: fd fd fa fa fd fd fd fd fa fa 00 00 00 04 fa fa
 0x0c067fffa8a0: 00 00 00 fa fa fa 00 00 04 fa fa 00 00 00
=>0x0c067fffa8b0:[fa]fa fa fa
 Shadow byte legend (one shadow byte represents 8 application bytes):
 Addressable:
           0.0
 Partially addressable: 01 02 03 04 05 06 07
 Heap left redzone: fa
                  fd
 Freed heap region:
 Stack left redzone:
                  f1
 Stack mid redzone:
 Stack right redzone:
                  £3
                 f5
 Stack after return:
 Stack use after scope: f8
 Global redzone: f9
 Global init order:
                  f6
 Poisoned by user:
                  f7
 Container overflow: fc
 Array cookie:
                  ac
 Intra object redzone: bb
                  fe
 ASan internal:
 Left alloca redzone:
 Right alloca redzone: cb
==24664==ABORTING
```

Attachments (1)

testcase (1.5 KB) - added by ylzs 3 months ago.

Change History (7)

```
comment:1 by ylzs, 3 months ago

Description: modified (diff)

comment:2 by ylzs, 3 months ago

Severity: critical → major

comment:3 by reimar, 3 months ago

Did you forget to attach the testcase?
```

comment:4 by reimar, 3 months ago

Looks the same as the other demux_mov report though

by ylzs, 3 months ago

Attachment: testcase added

comment:5 by ylzs, 3 months ago

I've added the testcase.

Last edited 3 months ago by ylzs (previous) (diff)

comment:6 by reimar, 3 months ago

Resolution: \rightarrow fixed

Status: $new \rightarrow closed$

Seems to have been fixed by the other fixes.

Note: See TracTickets for help on using tickets.