#2405 closed defect (fixed)

A heap-buffer-overflow occurred in function mp_getbits() of libmpdemux/mpeg_hdr.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)

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

How to reproduce:

1.Command: ./mencoder -ovc lavc -oac lavc -o /dev/null ./testcase

./mplayer ./testcase

2.Result:

```
MPlayer SVN-r38374-13.0.1 (C) 2000-2022 MPlayer Team
Playing /home/jlx/crashes/id^%000297,sig^%06,src^%003761,time^%206342676,execs^
libavformat version 58.29.100 (external)
MPEG-PS file format detected.
MPEG: No audio stream found -> no sound.
_____
==1487==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x602000002d98
READ of size 1 at 0x602000002d98 thread T0
   #0 0x555555d3906d in mp getbits /home/jlx/good mplayer/mplayer/libmpdemux/m
   #1 0x555555d3906d in read golomb /home/jlx/good mplayer/mplayer/libmpdemux/
   #2 0x555555d3906d in read golomb s /home/jlx/good mplayer/mplayer/libmpdemu
   #3 0x555555d3906d in h264 parse sps /home/jlx/good mplayer/mplayer/libmpdem
0x602000002d98 is located 0 bytes to the right of 8-byte region [0x602000002d90]
allocated by thread TO here:
   #0 0x5555558971cd in malloc (/home/jlx/good mplayer/asan mplayer/mplayer+0x
   #1 0x555555d34e40 in h264 parse sps /home/jlx/good mplayer/mplayer/libmpdem
SUMMARY: AddressSanitizer: heap-buffer-overflow /home/jlx/good mplayer/mplayer/
Shadow bytes around the buggy address:
 0x0c047fff8560: fa fa 00 00 fa fa 00 00 fa fa 00 00 fa fa 00 00
 0x0c047fff8570: fa fa 00 00 fa fa 00 00 fa fa 00 00 fa fa 00 00
 0x0c047fff8580: fa fa 00 00 fa fa 00 00 fa fa 00 00 fa fa 00 00
 0x0c047fff8590: fa fa 00 00 fa fa 00 00 fa fa 00 00 fa fa 00 00
 0x0c047fff85a0: fa fa 00 00 fa fa 00 00 fa fa 06 fa fa fd fd
=>0x0c047fff85b0: fa fa 00[fa]fa fa fa fa fa fa fa fa fa fa fa
```

```
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:
                f1
 Stack left redzone:
                f2
 Stack mid redzone:
 Stack right redzone:
 Stack after return:
                f5
 Stack use after scope: f8
 Global redzone:
                f9
 Global init order:
                f7
 Poisoned by user:
 Container overflow:
                fc
 Array cookie:
 Intra object redzone: bb
 ASan internal:
                fe
 Left alloca redzone:
 Right alloca redzone:
==1487==ABORTING
```

Attachments (1)

testcase (11.4 KB) - added by ylzs 3 months ago.

Change History (3)

```
by ylzs, 3 months ago

Attachment: testcase added

comment:1 by ylzs, 3 months ago

Description: modified (diff)

comment:2 by reimar, 3 months ago
```

Resolution: \rightarrow fixed

Status: $new \rightarrow closed$

Fixed by r38393.

Note: See TracTickets for help on using tickets.