Jump to bottom New issue

heap overflow in decompile_SWITCH #191



⊙ Open cuanduo opened this issue on Jan 6, 2020 · 0 comments

```
cuanduo commented on Jan 6, 2020
export ASAN_OPTIONS=allocator_may_return_null=1
./swftopython $poc
segmentaion_fault_decompile_569-use_after_free-idx:0x1365-0x2.zip
   root@ubuntu:/home/tim/libming/util# export ASAN_OPTIONS=allocator_may_return_null=1
   root@ubuntu:/home/tim/libming/util# ../../asan/libming/util/swftopython overflows/segmentaion fault decompile 569-use after free-idx\:0x1365-0x2
   header indicates a filesize of 1484 but filesize is 228
   #!/usr/bin/python
  from ming import *
  Ming useSWFVersion(10);
  m = SWFMovie();
  Ming setScale(1.0):
  m.setDimension(-9480, 8000);
  Failed to find branch target!!!
Looking for: -2
   ==95555==WARNING: AddressSanitizer failed to allocate 0xfffffffffffd438 bytes
   Stream out of sync after parse of blocktype 12 (SWF_DOACTION). 223 but expecting 200
  # SWF DOACTION
   ==95555==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x61e000000b28 at pc 0x55bee29d8d4c bp 0x7fff67e356e0 sp 0x7fff67e356d0
  READ of size 8 at 0x61e000000b28 thread T0
#0 0x55bee29d8d4b in decompile_SWITCH /home/tim/asan/libming/util/decompile.c:2104
       #1 0x55bee29dba67 in decompileIF /home/tim/asan/libming/util/decompile.c:2594
#2 0x55bee29df98f in decompileAction /home/tim/asan/libming/util/decompile.c:3335
       #3 0x55bee29dfela in decompileActions /home/tim/asan/libming/util/decompile.c:3494
#4 0x55bee29df2da in decompileSETTARGET /home/tim/asan/libming/util/decompile.c:3169
       #5 0x55bee29dfd4a in decompileAction /home/tim/asan/libming/util/decompile.c:3465
       #6 0x55bee29dfela in decompileActions /home/tim/asan/libming/util/decompile.c:3494
#7 0x55bee29dff50 in decompileSaction /home/tim/asan/libming/util/decompile.c:3517
       #8 0x55bee29cbfd8 in outputSWF_DOACTION /home/tim/asan/libming/util/outputscript.c:1551
       #9 0x55bee29ce57e in outputBlock /home/tim/asan/libming/util/outputscript.c:2083
       #10 0x55bee29cf674 in readMovie /home/tim/asan/libming/util/main.c:281
       #11 0x55bee29cfe0e in main /home/tim/asan/libming/util/main.c:354
#12 0x7f3a8dc34b6a in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x26b6a)
#13 0x55bee29c2469 in _start (/home/tim/asan/libming/util/swftopython+0x14469)
   0x61e000000b28 is located 8 bytes to the right of 2720-byte region [0x61e000000080,0x61e000000b20)
  allocated by thread TO here:
       #0 0x7f3a8e06f63e in calloc (/lib/x86_64-linux-gnu/libasan.so.5+0x10c63e)
       #1 0x55bee29db912 in decompileIF /home/tim/asan/libming/util/decompile.c:2587
       #2 0x55bee29df98f in decompileAction /home/tim/asan/libming/util/decompile.c:3335
#3 0x55bee29dfe1a in decompileActions /home/tim/asan/libming/util/decompile.c:3494
       #4 0x55bee29df2da in decompileSETTARGET /home/tim/asan/libming/util/decompile.c:3169
       #5 0x55bee29dfd4a in decompileAction /home/tim/asan/libming/util/decompile.c:3465
       #6 0x55bee29dfe1a in decompileActions /home/tim/asan/libming/util/decompile.c:3494
#7 0x55bee29dff50 in decompile5Action /home/tim/asan/libming/util/decompile.c:3517
       #8 0x55bee29cbfd8 in outputSWF_DOACTION /home/tim/asan/libming/util/outputscript.c:1551 #9 0x55bee29ce57e in outputBlock /home/tim/asan/libming/util/outputscript.c:2083
       #10 0x55bee29cf674 in readMovie /home/tim/asan/libming/util/main.c:281
       #11 0x55bee29cfe0e in main /home/tim/asan/libming/util/main.c:354
       #12 0x7f3a8dc34b6a in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x26b6a)
   SUMMARY: AddressSanitizer: heap-buffer-overflow /home/tim/asan/libming/util/decompile.c:2104 in decompile_SWITCH
   Shadow bytes around the buggy address:
     =>0x0c3c7fff8160: 00 00 00 00 fa[fa]fa fa fa fa fa fa fa fa fa
    Addressable:
                            00
     Partially addressable: 01 02 03 04 05 06 07 Heap left redzone: fa
     Freed heap region:
     Stack left redzone:
     Stack mid redzone:
     Stack right redzone:
     Stack after return:
     Stack use after scope:
     Global redzone:
     Poisoned by user:
     Container overflow:
     Arrav cookie:
     Intra object redzone:
     ASan internal:
     Left alloca redzone:
```

Right alloca redzone: cb Shadow gap: cc ==95555==ABORTING root@ubuntu:/home/tim/libming/util#

🥰 cxlzff mentioned this issue on Jun 26, 2021

 $stack-overflow\ in\ parseSWF_ACTIONRECORD(util/parser.c:1166)\ \#229$

⊙ Open

Assignees
No one assigned

Labels
None yet

Projects
None yet

Milestone
No milestone
Development
No branches or pull requests

1 participant

