matthiaskramm / swftools Public <> Code • Issues 117 Pull requests 5 Actions Wiki Jump to bottom New issue bug found in swfrender #185 Open Cvjark opened this issue on Jul 4 · 0 comments Cvjark commented on Jul 4 swfrender heap buffer overflow command to reproduce ./swfrender [sample file] -o /dev/null crash sample id8_heap-buffer-overflow_swf_DefineLosslessBitsTagToImage.zip crash info ==20010==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x61100000007fc at pc 0x000000509052 bp 0x7ffd07ab6370 sp 0x7ffd07ab6368 READ of size 4 at 0x6110000007fc thread T0 #0 0x509051 in swf_DefineLosslessBitsTagToImage /home/bupt/Desktop/swftools/lib/modules/swfbits.c:1037:16 #1 0x50aacb in swf_ExtractImage /home/bupt/Desktop/swftools/lib/modules/swfbits.c:1221:9 #2 0x4fcf44 in extractDefinitions /home/bupt/Desktop/swftools/lib/readers/swf.c:405:18 #3 0x4fcf44 in swf_open /home/bupt/Desktop/swftools/lib/readers/swf.c:736:18 #4 0x4f6846 in main /home/bupt/Desktop/swftools/src/swfrender.c:174:29 #5 0x7fb150d57c86 in __libc_start_main /build/glibc-CVJwZb/glibc-2.27/csu/../csu/libcstart.c:310 #6 0x41d4c9 in _start (/home/bupt/Desktop/swftools/build/bin/swfrender+0x41d4c9) 0x6110000007fc is located 764 bytes to the right of 256-byte region [0x611000000400,0x611000000500) allocated by thread T0 here: #0 0x4afa90 in malloc /home/bupt/桌面/tools/llvm-12.0.1/llvm/projects/compilerrt/lib/asan/asan_malloc_linux.cpp:145

```
#1 0x62146e in rfx alloc /home/bupt/Desktop/swftools/lib/mem.c:30:9
  #2 0x50aacb in swf ExtractImage /home/bupt/Desktop/swftools/lib/modules/swfbits.c:1221:9
  #3 0x4f6846 in main /home/bupt/Desktop/swftools/src/swfrender.c:174:29
  #4 0x7fb150d57c86 in libc start main /build/glibc-CVJwZb/glibc-2.27/csu/../csu/libc-
start.c:310
SUMMARY: AddressSanitizer: heap-buffer-overflow
/home/bupt/Desktop/swftools/lib/modules/swfbits.c: 1037: 16 in swf\_DefineLosslessBitsTagToImage \\
Shadow bytes around the buggy address:
 Shadow byte legend (one shadow byte represents 8 application bytes):
 Addressable:
 Partially addressable: 01 02 03 04 05 06 07
 Heap left redzone:
               fa
 Freed heap region:
               fd
 Stack left redzone:
               £1
 Stack mid redzone:
               f2
 Stack right redzone:
              f3
 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:
 Intra object redzone:
               hh
 ASan internal:
               fe
 Left alloca redzone:
               ca
 Right alloca redzone:
               ch
 Shadow gap:
               СС
==20010==ABORTING
```

SEGV

command to reproduce

```
./swfrender [sample file] -o /dev/null
```

crash sample

id58_SEGV_extractFrame.zip

crash info

```
==20817==ERROR: AddressSanitizer: SEGV on unknown address 0x000000000004 (pc 0x00000004f9f76 bp 0x0c1600000664 sp 0x7fffe97402a0 T0)
==20817==The signal is caused by a READ memory access.
==20817==Hint: address points to the zero page.

#0 0x4f9f76 in extractFrame /home/bupt/Desktop/swftools/lib/readers/swf.c:458:49

#1 0x4f981c in swfpage_render /home/bupt/Desktop/swftools/lib/readers/swf.c:637:23

#2 0x4f7398 in main /home/bupt/Desktop/swftools/src/swfrender.c:218:17

#3 0x7f720636dc86 in __libc_start_main /build/glibc-CVJwZb/glibc-2.27/csu/./csu/libc-start.c:310

#4 0x41d4c9 in _start (/home/bupt/Desktop/swftools/build/bin/swfrender+0x41d4c9)

AddressSanitizer can not provide additional info.

SUMMARY: AddressSanitizer: SEGV /home/bupt/Desktop/swftools/lib/readers/swf.c:458:49 in extractFrame
==20817==ABORTING
```

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

1 participant

