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## heap-buffer-overflow in SWF::Reader::getU30() #61

Open

<> Code

Cvjark opened this issue on Jul 11 · 0 comments

Cvjark commented on Jul 11

## sample file

id2\_heap-buffer-overflow\_getU30.zip

## command to reproduce

./swfmill swf2xml [sample file] /dev/null

```
crash detail
  ==55588==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x62a0000051f3 at pc
  0x000000534648 bp 0x7ffedf009d00 sp 0x7ffedf009cf8
  READ of size 1 at 0x62a0000051f3 thread T0
      #0 0x534647 in SWF::Reader::getU30() /home/bupt/Desktop/swfmill/src/SWFReader.cpp:84:8
      #1 0x535d7a in SWF::Reader::getPStringU30()
  /home/bupt/Desktop/swfmill/src/SWFReader.cpp:212:18
      #2 0x61c22a in SWF::String2::parse(SWF::Reader*, int, SWF::Context*)
  /home/bupt/Desktop/swfmill/src/gSWFParser.cpp:164:13
      #3 0x75d855 in SWF::String2::get(SWF::Reader*, int, SWF::Context*)
  /home/bupt/Desktop/swfmill/src/gSWFBasics.cpp:243:7
      #4 0x63d7d1 in SWF::Constants::parse(SWF::Reader*, int, SWF::Context*)
  /home/bupt/Desktop/swfmill/src/gSWFParser.cpp:3546:11
      #5 0x64010e in SWF::Action3::parse(SWF::Reader*, int, SWF::Context*)
  /home/bupt/Desktop/swfmill/src/gSWFParser.cpp:3676:12
      #6 0x672e50 in SWF::DoABC::parse(SWF::Reader*, int, SWF::Context*)
  /home/bupt/Desktop/swfmill/src/gSWFParser.cpp:8747:10
      #7 0x54120a in SWF::Tag::get(SWF::Reader*, int, SWF::Context*)
  /home/bupt/Desktop/swfmill/src/SWFTag.cpp:29:8
      #8 0x61e75d in SWF::Header::parse(SWF::Reader*, int, SWF::Context*)
  /home/bupt/Desktop/swfmill/src/gSWFParser.cpp:432:13
      #9 0x53c76a in SWF::File::load(_IO_FILE*, SWF::Context*, unsigned int)
  /home/bupt/Desktop/swfmill/src/SWFFile.cpp:88:11
      #10 0x54eda2 in swfmill_swf2xml(int, char**) /home/bupt/Desktop/swfmill/src/swfmill.cpp:135:20
      #11 0x7f3f0162dc86 in __libc_start_main /build/glibc-CVJwZb/glibc-2.27/csu/../csu/libc-
  start.c:310
```

```
#12 0x4224d9 in start (/home/bupt/Desktop/swfmill/src/swfmill+0x4224d9)
0x62a0000051f3 is located 1 bytes to the right of 20466-byte region
[0x62a000000200,0x62a0000051f2)
allocated by thread T0 here:
  #0 0x4fa7c8 in operator new[](unsigned long) /home/bupt/Desktop/tools/llvm-
12.0.1/llvm/projects/compiler-rt/lib/asan/asan_new_delete.cpp:102
  #1 0x53c625 in SWF::File::load(_IO_FILE*, SWF::Context*, unsigned int)
/home/bupt/Desktop/swfmill/src/SWFFile.cpp:70:10
  #2 0x54eda2 in swfmill swf2xml(int, char**) /home/bupt/Desktop/swfmill/src/swfmill.cpp:135:20
  #3 0x7f3f0162dc86 in libc start main /build/glibc-CVJwZb/glibc-2.27/csu/../csu/libc-
start.c:310
SUMMARY: AddressSanitizer: heap-buffer-overflow /home/bupt/Desktop/swfmill/src/SWFReader.cpp:84:8
in SWF::Reader::getU30()
Shadow bytes around the buggy address:
 0x0c547fff8a60: fa fa
 Shadow byte legend (one shadow byte represents 8 application bytes):
 Addressable:
                99
 Partially addressable: 01 02 03 04 05 06 07
 Heap left redzone:
 Freed heap region:
                  fd
 Stack left redzone:
                  f1
 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:
 Array cookie:
                  ac
 Intra object redzone:
                  bb
 ASan internal:
                  fe
 Left alloca redzone:
                  ca
 Right alloca redzone:
                  cb
 Shadow gap:
                  CC
==55588==ABORTING
```

Labels	
None yet	
Projects	
None yet	
Milestone	
No milestone	
Development	
No branches or pull requests	

1 participant

