Jump to bottom New issue

heap-buffer-overflow in sixel_encoder_output_without_macro at encoder.c:814 #123

```
SuhwanSong commented on Dec 23, 2019
version: img2sixel 1.8.4
OS: Ubuntu 18.04
configured with:
libcurl: yes
libpng: yes
libjpeg: yes
qdk-pixbuf2: no
GD: no
There is a heap-buffer-overflow in sixel_encoder_output_without_macro at encoder.c:814
please run following cmd to reproduce it.
  img2sixel --high-color $PoC
ASAN LOG
   ==26572==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x7f1b55fdd320 at pc 0x0000004d90f2 bp 0x7ffd656666f0 sp 0x7ffd656666a0
  READ of size 1526074725 at 0x7f1b55fdd320 thread T0 #0 0x4d90f1 in __asan_memcpy (/home/tmp/img2sixel+0x4d90f1)
       #1 0x7f1c0acb8341 in sixel_encoder_output_without_macro /home/tmp/libsixel/src/encoder.c:814:5
#2 0x7f1c0acb8341 in sixel_encoder_encode_frame /home/tmp/libsixel/src/encoder.c:1050
      "3 8x7fic@ac8f026 in load_gif /home/tmp/libixel/src/fromgif.c:649:22
#4 8x7fic@ac6f026 in load_with_builtin /home/tmp/libixel/src/loader.c:888:18
#5 8x7fic@ac6c6fb in sixel_helper_load_image_file /home/tmp/libixel/src/loader.c:1392
#6 8x7fic@ac6099f in sixel_encoder_encode /home/tmp/libixel/src/encoder.c:1737:14
       #7 0x51787f in main /home/tmp/libsixel/converters/img2sixel.c:457:22
      #8 0x7f1c09016096 in __libc_start_main /build/glibc-OTSEL5/glibc-2.27/csu/../csu/libc-start.c:310 #9 0x41a379 in _start (/home/tmp/img2sixel+0x41a379)
  0x7f1b55fdd320 is located 0 bytes to the right of 36043552-byte region [0x7f1b53d7d800,0x7f1b55fdd320)
  allocated by thread T0 here:
#0 0x4da230 in __interceptor_malloc (/home/tmp/img2sixel+0x4da230)
      #1 0x7f1c0ac8ce95 in gif_init_frame /home/tmp/libsixel/src/fromgif.c:239:42
#2 0x7f1c0ac8ce95 in load_gif /home/tmp/libsixel/src/fromgif.c:644
      #3 0x/fic0aa6c6fb in load_with_builtin /home/tmp/libsixel/src/loader.c:888:18
#4 0x/fic0aa6c6fb in sixel_helper_load_image_file /home/tmp/libsixel/src/loader.c:1392
#5 0x/fic0acb099f in sixel_encoder_encode /home/tmp/libsixel/src/encoder.c:1737:14
       #6 0x51787f in main /home/tmp/libsixel/converters/img2sixel.c:457:22
       #7 0x7f1c09016b96 in __libc_start_main /build/glibc-OTsEL5/glibc-2.27/csu/../csu/libc-start.c:310
  SUMMARY: AddressSanitizer: heap-buffer-overflow (/home/tmp/img2sixel+0x4d90f1) in __asan_memcpy
   Shadow byte legend (one shadow byte represents 8 application bytes):
     Addressable:
     Partially addressable: 01 02 03 04 05 06 07
     Heap left redzone:
     Freed heap region:
Stack left redzone:
     Stack mid redzone:
Stack right redzone:
     Stack after return:
     Stack use after scope:
     Global redzone:
     Global init order:
    Poisoned by user:
Container overflow:
     Array cookie:
     Intra object redzone:
     ASan internal:
    Left alloca redzone:
Right alloca redzone:
   ==26572==ARORTING
(a 1)
```

saitoha commented on Dec 24, 2019 Owner This problem seems to be fixed on fix-issue74-limit-memory-allocation-size branch, with @ble@b3 .

saitoha commented on Jan 2, 2020	Owner
Fixed on v1.8.5. Thanks!	
(<u>a</u> 1)	
a saitoha closed this as completed on Jan 2, 2020	
fgeek commented on Aug 12, 2021	
CVE-2020-21677 has been assigned for this issue.	
Assignees	
No one assigned	
Labels	
None yet	
Projects	
None yet	
Milestone	
No milestone	
Development	

3 participants



No branches or pull requests