<> Code ⊙ Issues 43 % Pull requests 7 ⊙ Actions ⊞ Projects □ Wiki

Jump to bottom New issue

heap-buffer-overflow in dither_func_fs at tosixel.c:861 #114

```
SuhwanSong commented on Dec 13, 2019
version: img2sixel 1.8.2
There is a heap-buffer-overflow in dither_func_fs at tosixel.c:861
please run following cmd to reproduce it.
  img2sixel --high-color $PoC
ASAN LOG
   ==39700==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x7fcc6219e808 at pc 0x7fcc6ad13008 bp 0x7ffe2a935b70 sp 0x7ffe2a935b68
  READ of size 1 at 0x7fcc6219e808 thread T0
      #0 0x7fcc6ad13007 in dither_func_fs /home/tmp/libsixel/src/tosixel.c:861:9
#1 0x7fcc6ad13007 in sixel_apply_15bpp_dither /home/tmp/libsixel/src/tosixel.c:1223
#2 0x7fcc6ad13007 in sixel_encode_highcolor /home/tmp/libsixel/src/tosixel.c:1334
       #3 0x7fcc6ad13007 in sixel_encode /home/tmp/libsixel/src/tosixel.c:1485 #4 0x7fcc6b0478a4 in sixel_encoder_output_without_macro /home/tmp/libsixel/src/encoder.c:820:14
       #5 0x7fcc6b0478a4 in sixel_encoder_encode_frame /home/tmp/libsixel/src/encoder.c:1050 #6 0x7fcc6adfdd91 in sixel_helper_load_image_file /home/tmp/libsixel/src/loader.c:913:14
      #7 0x7fcc6b03fd4f in sixel_encoder_encode /home/tmp/libsixel/src/encoder.c:1737:14
#8 0x51787f in main /home/tmp/libsixel/converters/img2sixel.c:457:22
#9 0x7fcc693a2b96 in _libc_start_main /build/glibc-OTSEL5/glibc-2.27/csu/./csu/libc-start.c:310
       #10 0x41a379 in _start (/home/tmp/img2sixel+0x41a379)
   0x7fcc6219e808 is located 0 bytes to the right of 573448-byte region [0x7fcc62112800,0x7fcc6219e808)
  allocated by thread TO here:
      #0 0x4da230 in __interceptor_malloc (/home/tmp/img2sixel+0x4da230)
#1 0x7fcc6acfcc7f in sixel_encode_highcolor /home/tmp/libsixel/src/tosixel.c:1309:40
       #2 0x7fcc6acfcc7f in sixel_encode /home/tmp/libsixel/src/tosixel.c:1485
#3 0x7fcc6b0478a4 in sixel_encoder_output_without_macro /home/tmp/libsixel/src/encoder.c:820:14
       #4 0x7fcc6b0478a4 in sixel_encoder_encode_frame /home/tmp/libsixel/src/encoder.c:1050
      #5 0x7fcc6adfdd91 in sixel_helper_load_image_file /home/tmp/libsixel/src/loader.c:913:14 #6 0x7fcc6b03fd4f in sixel_encoder_encode /home/tmp/libsixel/src/encoder.c:1737:14
       #7 0x51787f in main /home/tmp/libsixel/converters/img2sixel.c:457:22
#8 0x7fcc693a2b96 in _libc_start_main /build/glibc-OTsEL5/glibc-2.27/csu/../csu/libc-start.c:310
  SUMMARY: AddressSanitizer: heap-buffer-overflow /home/tmp/libsixel/src/tosixel.c:861:9 in dither_func_fs
  Shadow byte legend (one shadow byte represents 8 application bytes):
    Addressable:
                             00
     Partially addressable: 01 02 03 04 05 06 07
     Heap left redzone:
Freed heap region:
     Stack left redzone:
                                f1
     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:
   ==39700==ABORTING
```

saitoha commented on Dec 16, 2019 Owner 9d0a7ff for #116 also fixed this problem

asaitoha closed this as completed on Dec 16, 2019

abels None yet
Projects None yet
dilestone Ao milestone
Development 40 branches or pull requests

2 participants

