Status: RESOLVED FIXED

Alias: None

Product: Ghostscript

Component: General (show other bugs)

Version: master

Hardware: PC Linux

Importance: P4 normal Assignee: Julian Smith

URL:

Keywords:

Depends on:

Attachments poc (11.24 KB, application/pdf) Details

Add an attachment (proposed patch, testcase, etc.)

You need to log in before you can comment on or make changes to this bug.

Suhwan 2019-10-26 06:26:37 UTC

Description Created attachment 18377 [details]

Hello

I found a heap-buffer-overflow bug in GhostScript.

Please confirm.

Thanks.

OS: Ubuntu 18.04 64bit

Steps to reproduce:
1. Download the .POC files.
2. Compile the source code with ASan.
3. Run following cmd.

qs -sOutputFile=tmp -sDEVICE=mj700v2c \$PoC

Here's ASAN report

==42361==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x62f000029670 at pc 0x000001fdc864 by 0x1fffcdbb03cs op 0x7fffcdbb03b8 READ of size 1 at 0x62f000029670 thread TO #0 0x1fdc865 in mj_print_page qhostpd1/./contrib/japanese/gdevmjc.c:670:18 #1 0x1fd2de5 in mj_print_page qhostpd1/./contrib/japanese/gdevmjc.c:1393:13 #2 0x13f07d9 in gx default print_page copies ghostpd1/./base/gdevprn.c:1231:12 #3 0x13ef028 in gdev prn_output_page aux_qhostpd1/./base/gdevprn.c:1231:12 #4 0x22b6f20 in go output_page ghostpd1/./base/gdevice.c:121:17 #5 0x3054b9f in zoutputpage ghostpd1/./psi/gdevice.c:416:12 #6 0x2e8bdb6 in interp_qhostpd1/./psi/interp.c:1300:28 #7 0x2e8bdb6 in gs_call_interp_ghostpd1/./psi/interp.c:520 #8 0x2e8bdb6 in gs_interpret_ghostpd1/./psi/interp.c:521 #8 0x2e8bdb6 in gs_main_run_string_end_ghostpd1/./psi/imain.c:731:12 #10 0x2e3f451 in gs_main_run_string_end_ghostpd1/./psi/imain.c:731 #10 0x2e3f451 in gs_main_run_string_with_length_ghostpd1/./psi/imain.c:735 #12 0x2e548f0 in run_art_ghostpd1/./psi/imainarg_c:1108:12 #13 0x2e548f0 in run_art_ghostpd1/./psi/imainarg_c:1108:16 #15 0x2e548f0 in run_art_ghostpd1/./psi/imainarg_c:1108:16 #15 0x2e548f0 in run_art_ghostpd1/./psi/imainarg_c:1008:16 #16 0x2e548f0 in run_art_ghostpd1/./psi/imainarg_c:1008:16 #16 0x2e539d0 in gs_main_init_with_arg_ghostpd1/./psi/imainarg_c:241:24 #16 0x2e539d0 in gs_main_init_with_arg_ghostpd1/./psi/imainarg_c:228:16 #17 0x5b86f in main_ghostpd1/./psi/gs.c:95:16 #17 0x5b86f in main_ghostpd1/./psi/gs.c:95:16 #17 0x5b86f in main_ghostpd1/./psi/gs.c:95:16 #19 0x482e79 in _start_ges0byte0 the right_of 53872-byte_region

0x62f000029670 is located 0 bytes to the right of 53872-byte region [0x62f00001c400,0x62f000029670) allocated by thread TO here:
#0 0x542d30 in _interceptor_malloc (gs+0x542d30) #1 0x23640fd in _gs_heap_alloc_bytes ghostpd1/./base/gsmalloc.c:193:34

Julian Smith 2019-10-30 09:50:14 UTC

Reported: 2019-10-26 06:26 UTC by Suhwan Modified: 2019-10-30 09:50 UTC (History)

See Also: Customer: Word Size: ---

Comment 1

Fixed in: https://git.qhostscript.com/2 p=ghostpdl.git;a=commit;h=863ada11f9a942a622a581312e2be022d9e2a6f7

Format For Printing - XML - Clone This Bug - Top of page