Bug 701800 - heap-buffer-overflow at contrib/gdevbjca.c:758 in FloydSteinbergDitheringC

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:

Block

Reported: 2019-10-26 15:11 UTC by Suhwan **Modified:** 2019-10-31 11:22 UTC (<u>History</u>)

CC List: 0 users

See Also: Customer: Word Size: ---

```
Attachments

poc (25.73 KB, application/pdf)
2019-10-26 15:11 UTC, Suhwan

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

– Note

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

```
Suhwan 2019-10-26 15:11:22 UTC
                                                                                                                                                                                                                                                                                            Description
  Created attachment 18383 [details] poc
   Hello
  I found a heap-buffer-overflow bug in GhostScript. Please confirm. Thanks.
   OS: Ubuntu 18.04 64bit
Version: commit bfeff28bb56ee4424ac78619792c18bf4f5104ef
  Steps to reproduce:
1. Download the .POC files.
2. Compile the source code with "make sanitize" using gcc.
3. Run following cmd.
   qs -sPAPERSIZE=legal -sOutputFile=tmp -sDEVICE=bjccolor $PoC
   Here's ASAN report.
  GPL Ghostscript GIT PRERELEASE 9.51 (2019-10-15)
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   Processing pages 1 through 1.
gnu/licc.so.6-04/X:1099

#24 0x55affc1395a9 in _start (gs+0x36b5a9)

0x62b0000006a7c is located 460 bytes to the right of 26288-byte region [0x62b000000200,0x62b0000068b0)
allocated by thread To here:
#0 0x7fdea263cb50 in _interceptor_malloc (/usr/lib/x86_64-linux-gnu/libasan.so.4+0xdeb50)

#1 0x55a5fdc979a5 in gs heap alloc bytes base/gsmalloc.c:2485
#3 0x55a5fdc045a1 in alloc acquire_clump base/gsalloc.c:2485
#3 0x55a5fdc045a1 in alloc obj base/gsalloc.c:1948
#4 0x55a5fdc045a1 in alloc struct immovable base/gsalloc.c:1255
#5 0x55a5fdc33415 in gs copydevice2 base/gsdevice.c:401
#6 0x55a5fela64d4 in zcopydevice2 base/gsdevice.c:401
#6 0x55a5fela64d4 in zcopydevice2 base/gsdevice.c:401
#6 0x55a5fela64d4 in zcopydevice2 psi/interp.c:36
#8 0x55a5fela64d4 in zcopydevice2 psi/interp.c:30
#9 0x55a5fela64dae in gs_call_interp psi/interp.c:520
#10 0x55a5fela64d3 in gs_main_interpret psi/interp.c:477
#11 0x55a5fela64d3 in gs_main_interpret psi/interp.c:233
#12 0x55a5fela66be in gs_main_interpret psi/imain.c:203
#14 0x55a5fel84flaf in gs_main_interpret psi/imain.c:301
#14 0x55a5fel84flaf in gs_main_interpret psi/imain.c:301
#15 0x55a5fel84dae in gs_main_interpret psi/imain.c:301
#16 0x55a5fel84dae in gs_main_interpret psi/imain.c:301
#17 0x55a5fel84dae in gs_main_interpret psi/imain.c:301
#18 0x55a5fel84dae in gs_main_interpret psi/imain.c:302
#19 0x55a5fel84dae in gs_main_interpret psi/imain.c:302
#18 0x55a5fel84dae in gs_main_interpret psi/imain.c:302
#19 0x55a5fel84dae in gs_main_interpret psi/imain.c:228
#19 0x55a5fel84dae in gs_main_interpret psi/imain.c:228
#19 0x55a5fel84dae in gs_main_interpret psi/imain.c:228
#19 0x55a5fel84dae in psi/imain.cipret psi/imain.cipr
   SUMMARY: AddressSanitizer: heap-buffer-overflow contrib/gdevbjca.c:758 in
```

Julian Smith 2019-10-31 11:22:24 UTC

Comment 1

Fixed in https://git.ghostscript.com/? p=ghostpdl.git;a=commitdiff;h=bf72fla3dd5392ee8291e3b1518a0c2c5dc6ba39

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