## Bug 701819 - heap-buffer-overflow at devices/gdevpcx.c:445 in pcx\_write\_rle

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:** 2019-10-31 18:13 UTC by Suhwan **Modified:** 2019-11-04 12:46 UTC (<u>History</u>)

CC List: 0 users

See Also: Customer: Word Size: ---

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Attachments

poc (25.35 KB, application/pdf)
2019-10-31 18:33 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 2019-10-31 18:13:56 UTC Description Created attachment 18403 [details] poc Hello I found a heap-buffer-overflow bug in GhostScript. Please confirm. Thanks. OS: Ubuntu 18.04 64bit Version: commit <u>b5bc53eb7223f8999882a5d8e2e35c27fe7a0b57</u> Steps to reproduce: 1. Download the .POC files. 2. Compile the source code with "make sanitize" using gcc. 3. Run following cmd. qs -dBATCH -dNOPAUSE -r965 -sOutputFile=tmp -sDEVICE=pcx16 \$PoC Here's ASAN report. gnu/libc.so.640x21b96) #25 Ox556a064645f79 in \_start (gs+0x36bf79) Ox622000001570 is located 0 bytes to the right of 5232-byte region [Ox62200000100, 0x622000001570] allocated by thread TO here: #0 Ox7f26d3ebb50 in \_interceptor\_malloc (/usr/lib/x86\_64-linux-gnu/libsan.so.4+0x6b50) #1 Ox556a0e3147D in alloc acquire\_clump base/gsmalloc.c:193 #2 Ox556a0e3147D in alloc acquire\_clump base/gsmalloc.c:2485 #3 Ox556a0e3147D in alloc acquire\_clump base/gsalloc.c:2485 #3 Ox556a0e31422 in alloc obj base/gsalloc.c:1948 #4 Ox556a0e30310425 in i alloc bytes base/gsalloc.c:176 #5 Ox556a0e303193 in pox16 print page devices/gdevpcx.c:331 #6 Ox556a0e30393 in pox16 print page devices/gdevpcx.c:257 #7 Ox556a0d6c1ac5 in gx default print page copies base/gdevprn.c:1231 #8 Ox556a0e304044 in gdev\_prn\_bg\_output\_page base/gdevprn.c:1133 #8 Ox556a0e36c3dcc1ac5 in gx default print page copies base/gdevprn.c:1231 #8 Ox556a0e36c3c3 in gx default print page base/gdevprn.c:1133 #8 Ox556a0e646c1ac6 in gdev\_prn\_bg\_output\_page base/gdevprn.c:1131 #10 Ox556a0e50c2c2 in gs\_call\_interp pase/deven.c:212 #11 Ox556a0e80c2c2 in gs\_call\_interp psi/interp.c:86 #13 Ox556a0e80c2c2 in gs\_call\_interp psi/interp.c:80 #14 Ox556a0e80c2c2 in gs\_call\_interp psi/interp.c:87 #16 Ox556a0e80c2c2 in gs\_call\_interp psi/interp.c:233 #17 Ox556a0e80c2c2 in gs\_min\_int\_with\_cc253 #17 Ox556a0e80c2c2 in gs\_min\_int\_with\_args\_psi/imain.c:716 #20 Ox556a0e80c2c2 in runs\_tring\_psi/imainarg.c:1117 #21 Ox556a0e80c2c2 in runs\_tring\_psi/imainarg.c:1117 #21 Ox556a0e80c2c2 in runs\_tring\_psi/imainarg.c:241 #22 Ox556a0e80c2c2 in runs\_tring\_psi/imainarg.c:241 #23 Ox556a0e80c2c2 in runs\_tring\_psi/imainarg.c:241 #24 Ox556a0e80c2c2 in runs\_tring\_psi/imainarg.c:241 #25 Ox556a0e80c3c2 in runs\_tring\_psi/imainarg.c:272 #26 Ox556a0e80c3c2 in runs\_tring\_psi/imainarg.c:272 #27 Ox556a0e80c3c2 in gs\_min\_int\_with\_args\_psi/imainarg.c:288 #25 Ox556a0e80c3c2 in gs\_min\_int\_with\_args\_psi/imainarg.c:278 #27 Ox556a0e80c3c2 in gs\_min\_int\_with\_args\_psi/imainarg.c:278 #27 Ox556 SUMMARY: AddressSanitizer: heap-buffer-overflow devices/gdevpcx.c:445 in

## Julian Smith 2019-11-04 12:46:15 UTC

Comment 1

Fixed in: https://git.ghostscript.com/? p=ghostpdl.git;a=commit;h=2793769ff107d8d22dadd30c6e68cd781b569550

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