## Bug 701816 - heap-buffer-overflow at base/gxicolor.c:957 in image\_render\_color\_thresh

Status: RESOLVED FIXED

Alias: None

Product: Ghostscript

Component: Images (show other bugs)

Version: master

**Hardware:** PC Linux

Importance: P4 normal
Assignee: Robin Watts

URL: Keywords:

Depends on:

Block

**Reported:** 2019-10-31 18:03 UTC by Suhwan **Modified:** 2019-11-05 19:26 UTC (<u>History</u>)

CC List: 0 users

See Also: Customer: Word Size: ---

```
Attachments

poc (13.27 KB, image/x-eps)
2019-10-31 18:03 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 18:03:38 UTC
                                                                                                                                                                                                                                             Description
   Created attachment 18400 [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.
    gs -dBATCH -dNOPAUSE -dFitPage -sOutputFile=tmp -sDEVICE=plank $PoC Here's ASAN report.
Here's ASAN report.

=17311==RROR. AddressSanitizer: heap-buffer-overflow on address 0x7fa1955a6730 at pc 0x5618953497d bp 0x7ffcf93e73b0 sp 0x7ffcf93e73a0

#10 0x5618953497c in image render color thresh base/gxicolor.c:957
#10 0x5618953497c in image plane data base/gxidata.c:237
#2 0x5618963867d in gx image plane data base/gxidata.c:237
#2 0x56189638686 in gx image plane data rows base/gximage.c:183
#3 0x56189638686 in gx image plane base psi/mage.c:183
#3 0x5618965895 in do call operator psi/interp.c:520
#4 0x561896595061 in interp psi/interp.c:300
#7 0x5618965942d4 in gs interpret psi/interp.c:1200
#8 0x5618965942d4 in gs interpret psi/interp.c:177
#9 0x5618965942db in gs main interpret psi/interp.c:177
#9 0x5618965965061 in gs main interpret psi/interp.c:177
#9 0x5618965965061 in gs main interpret psi/interp.c:171
#10 0x5618965965061 in gs main interpret psi/interp.c:171
#11 0x5618965966061 in gs main run string bil/imain.c:716
#13 0x5618965962061 in ur string psi/imainarg.c:1107
#14 0x561896578026 in run string psi/imainarg.c:1107
#15 0x561896578026 in run string psi/imainarg.c:1080
#15 0x5618965782d5 in gs main inte with args psi/imainarg.c:241
#17 0x5618965782d in gs main interpret psi/imainarg.c:288
#18 0x5618965782d in gs main interpret psi/imainarg.c:288
#18 0x56189657845 in psapi inti with args psi/imainarg.c:272
#19 0x56189657407c in gsapi inti with args psi/imainarg.c:272
#19 0x56188564070 in psapi inti with args psi/imainarg.c:278
#20 0x5618851618d1 in main psi/gs.c:95
#21 0x7fa18e27a96 in _ libe start main (/lib/x86_64-linux-
gnu/ilbc.so.640x21096] in _ start (gs+0x36bf79)
    0x7fa1955a6730 is located 208 bytes to the left of 671864-byte region
```

## Robin Watts 2019-11-05 19:26:12 UTC

Comment 1

Fixed in:

Bug 701842: Fix misindexing in gxicolor.c

We were incorrectly decrementing position per-component, rather than per-pixel (in 2 places).

Also, take care of some whitespace oddities.

Apologies for the wrong bug number in the commit message.

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