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:

Blocks

Reported: 2019-10-29 07:54 UTC by Suhwan **Modified:** 2019-10-31 15:44 UTC (<u>History</u>)

CC List: 0 users

See Also: Customer: Word Size: ---

– Note -

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

```
Suhwan 2019-10-29 07:54:53 UTC
                                                                                                                                                                                                                                                                                 Description
  Created attachment 18390 [details]
   Hello
    I found a global-buffer-overflow bug in GhostScript. Please confirm.
    Please
Thanks.
    OS: Ubuntu 18.04 64bit
Version: commit 6e6c69487094b877bc56fcc07b9840f6e5b95925
   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 -dSAFER -r599 -sOutputFile=tmp -sDEVICE=okiibm $PoC
Here's ASAN report.

=33661==BRROR: AddressSanitizer: global-buffer-overflow on address 0x562db78fe609 at pc 0x562db66108e3 bp 0x7fff84c973c0 sp 0x7fff84c973b0

READ of size 1 at 0x562db78fe609 thread T0

#10 0x562db66108e7 in okithm print paged devices/gdevokii.c:109
#10 x562db60108e7 in okithm print page devices/gdevokii.c:319
#2 0x562db607a9f5 in ox default print page copies base/gdevprn.c:1231
#3 0x562db607a9f5 in ox default print page copies base/gdevprn.c:1231
#4 0x562db607a9f5 in gdev prn Dutput page base/gdevprn.c:1181
#5 0x562db607a9f5 in go output page base/gdevprn.c:1181
#5 0x562db6043f5 in do call operator psi/interp.c:56
#6 0x562db6043f0 in do call operator psi/interp.c:50
#10 0x562db6043f0 in do call operator psi/interp.c:50
#10 0x562db6043f0 in ga call interp psi/interp.c:50
#10 0x562db6043f0 in ga call interp psi/interp.c:57
#11 0x562db6043f0 in ga main interpret psi/interp.c:57
#12 0x562db6043f0 in ga main interpret psi/interp.c:77
#13 0x562db6045f0 in ga main interpret psi/interp.c:77
#14 0x562db6045f0 in ga main interpret psi/interp.c:716
#15 0x562db604882 in ga main run string end psi/imain.c:735
#14 0x562db6045f0 in ga main run string with length psi/imain.c:735
#15 0x562db604888 in run string psi/imainarg.c:1107
#16 0x562db604888 in run string psi/imainarg.c:1086
#17 0x562db604888 in run string psi/imainarg.c:1086
#18 0x562db604662671 in ga main inte with args psi/imainarg.c:288
#20 0x562db604606 in ga main inte with args psi/imainarg.c:288
#20 0x562db604606 in ga main inte with args psi/imainarg.c:288
#20 0x562db604606 in ga main inte with args psi/imainarg.c:214
#20 0x562db605a56b08 in main psi/gs.c:95
#23 0x7f8dc102lb06 in _lbc start main (/lib/x86_64-linux-
gnu/libc.so.6+0x2lb96]
#24 0x562db65a56b08 in main psi/gs.c:95
#25 0x7f8dc102lb06 in _start (gs+0x36b8a)
   Here's ASAN report.
    0x562db78fe609 is located 4 bytes to the right of global variable 'graphics_modes_9' defined in './devices/gdevokii.c:94:27' (0x562db78fe600) of size
    5
0x562db78fe609 is located 55 bytes to the left of global variable 'index' defined
in './devices/gdevokii.c:185:43' (0x562db78fe640) of size 16
SUMMARY: AddressSanitizer: global-buffer-overflow devices/gdevokii.c:109 in
```

Fixed in: https://git.qhostscript.com/2 p=ghostpdl.git;a=commit;h=f54414c8b15b2c27dldcadd92cfe84f6d15f18dc

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