## Bug 701786 - stack-buffer-overflow at base/gsbitops.c:677 in bytes\_copy\_rectangle

Status: RESOLVED FIXED Alias: None Product: Ghostscript Component: Valgrind/AddressSanitizer (show other bugs) Version: master Hardware: PC Linux Importance: P4 normal Assignee: Ray Johnston

Reported: 2019-10-26 05:30 UTC by Suhwan Modified: 2019-10-28 02:53 UTC (History) CC List: 0 users

See Also: **Customer:** Word Size: ---

Attachments

URL: Keywords: Depends on:

poc (3.38 KB, application/pdf) Add an attachment (proposed patch, testcase, etc.)

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

Details

```
Suhwan 2019-10-26 05:30:07 UTC
                                                                             Description
Created <u>attachment 18370</u> [details] poc
 Hello
 I found a stack-buffer-overflow bug in GhostScript.
 Please confirm.
 Thanks.
 OS: Ubuntu 18.04 64bit
 Steps to reproduce:
 Steps to reproduce:
1. Download the .POC files.
2. Compile the source code with ASan.
3. Run following cmd.
$ gs -r652 -dFitPage -sOutputFile=tmp -sDEVICE=jetp3852 $PoC
 Here's ASAN report.
Address 0x7fff22447700 is located in stack of thread TO at offset 800 in frame #0 0x1f2ea1f in jetp3852_print_page_ghostpd1/./devices/gdev3852.c:61
```

ASan internal: Left alloca redzone: Right alloca redzone: ==37765==ABORTING

## Ray Johnston 2019-10-28 02:53:37 UTC

Comment 1

Fixed by detecting the invalid byte count that can be caused by wide pages or high resolutions. A badly designed 'contrib' device, so just detect that the number of bytes needed will exceed what the device can handle, and throw an error. With the test conditions, the result is now:

GPL Ghostscript GIT PRERELEASE 9.51: invalid resolution and/or width gives line size = 5604, max. is 768

Error: /rangecheck in --showpagethen following the usual error printout:

GPL Ghostscript GIT PRERELEASE 9.51: Unrecoverable error, exit code 1

Fixed by commit 93cb0c0adbd9bcfefd021d59c472388f67d3300d

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