

Bug 701822 - Segmentation fault at psi/iname.c:296 in names\_index\_ref

Status: RESOLVED FIXED

Alias: None

Product: Ghostscript  
Component: General (show other bugs)  
Version: master  
Hardware: PC Linux

Importance: P4 normal  
Assignee: Ken Sharp

URL:  
Keywords:

Depends on:  
Blocks:

Reported: 2019-11-01 07:05 UTC by Suhwan  
Modified: 2021-09-11 12:56 UTC (History)  
CC List: 2 users (show)

See Also:  
Customer:  
Word Size: ---

Attachments	
<b>poc</b> (48.10 KB, application/postscript) 2019-11-01 07:05 UTC, Suhwan	<a href="#">Details</a>
<a href="#">Add an attachment</a> (proposed patch, testcase, etc.)	

Note  
You need to [log in](#) before you can comment on or make changes to this bug.

Suhwan2019-11-01 07:05:37 UTC

Description

Created [attachment 18409](#) [[details](#)]  
poc  
  
Hello  
  
I found a Segmentation fault bug in GhostScript.  
Please confirm.  
Thanks.  
  
OS: Ubuntu 18.04 64bit  
Version: commit [9c196bb7f6873b4fe43a649fc87cba363c6af8e5](#)  
  
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 -sOutputFile=tmp -sDEVICE=txtwrite \$PoC  
  
Here's ASAN report.  
  
==14954==ERROR: AddressSanitizer: SEGV on unknown address 0x62f004004478 (pc 0x55ae28a987f9 bp 0x7ffebd4868c0 sp 0x7ffebd4868a0 T0)  
==14954==The signal is caused by a READ memory access.  
#0 0x55ae28a987f8 in names\_index\_ref psi/iname.c:296  
#1 0x55ae28a0731a in gs\_font\_map\_glyph\_by\_dict psi/zbfont.c:184  
#2 0x55ae28a08248 in gs\_font\_map\_glyph\_to\_unicode psi/zbfont.c:278  
#3 0x55ae281915de in get\_unicode\_devices/vector/gdevtxtw.c:1694  
#4 0x55ae28193baf in txtWrite\_process\_cmap\_text devices/vector/gdevtxtw.c:1893  
#5 0x55ae28198142 in textw\_text\_process\_devices/vector/gdevtxtw.c:2189  
#6 0x55ae2849fd49 in gs\_text\_process\_base/gstext.c:596  
#7 0x55ae28a14ec7 in op\_show\_continue\_pop psi/zchar.c:696  
#8 0x55ae28a0f8ec in zshow psi/zchar.c:78  
#9 0x55ae2897ea2f in do\_call\_operator psi/interp.c:86  
#10 0x55ae289881ae in interp psi/interp.c:1300  
#11 0x55ae2898057c in gs\_call\_interp psi/interp.c:520  
#12 0x55ae2897fc21 in gs\_interpret psi/interp.c:477  
#13 0x55ae28954178 in gs\_main\_interpret psi/imapin.c:253  
#14 0x55ae2895762d in gs\_main\_run\_string\_end psi/imapin.c:791  
#15 0x55ae28956ff2 in gs\_main\_run\_string\_with\_length psi/imapin.c:735  
#16 0x55ae28956f64 in gs\_main\_run\_string psi/imapin.c:716  
#17 0x55ae28963c28 in run\_string psi/imapinarg.c:1117  
#18 0x55ae289639cb in runarg psi/imapinarg.c:1086  
#19 0x55ae2896324a in argproc psi/imapinarg.c:1008  
#20 0x55ae2895dal6 in gs\_main\_init\_with\_args01 psi/imapinarg.c:241  
#21 0x55ae2895de7a in gs\_main\_init\_with\_args psi/imapinarg.c:288  
#22 0x55ae289693aa in psapi\_init\_with\_args psi/psapi.c:272  
#23 0x55ae28b389c9 in gsapi\_init\_with\_args psi/iapi.c:148  
#24 0x55ae277096b8 in main psi/gs.c:95  
#25 0x7fd8636a3b96 in \_\_libc\_start\_main (/lib/x86\_64-linux-gnu/libc.so.6+0x21b96)  
#26 0x55ae27709459 in \_start (gs+0x36c459)  
  
AddressSanitizer can not provide additional info.  
SUMMARY: AddressSanitizer: SEGV psi/iname.c:296 in names\_index\_ref

Ken Sharp2019-11-03 15:40:00 UTC

Comment 1

I've tried the specified SHA and the current HEAD ([366ad48d076c1aa4c8f83c65011258a04e348207](#)) on 64-bit Ubuntu using make sanitize, and cannto reproduce this problem.  
  
I also tried 64-bit WIndows and 32-bit WIndows, debug and release versions of each, without any problems.  
  
In short, I cannot reproduce this on any system.

Alex Cherepanov2019-11-04 15:26:55 UTC

Comment 2

I can easily reproduce this SEGV by running the current gs, debug or release, as described in this bug report.

Ken Sharp2019-11-04 15:40:47 UTC

Comment 3

(In reply to Alex Cherepanov from [comment #2](#))  
> I can easily reproduce this SEGV by running the current gs, debug or  
> release, as described in this bug report.  
  
Hmm, oddly today it does indeed reproduce, on Linux, no idea why it wouldn't yesterday.

Ken Sharp2019-11-05 08:52:20 UTC

Comment 4

I believe this is fixed in commit [407c98a38c3a6ac1681144ed45cc2f4fc374c91f](#)

