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## SEGV (stack overflow) on vfprintf #24



New issue

⊙ Open strongcourage opened this issue on May 27, 2019 · 0 comments

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strongcourage commented on May 27, 2019 • edited 🕶
Hi.
Our fuzzer found a crash due to a stack overflow bug on the function vfprintf (the latest commit b671b64 on master - version 0.70).
PoC so vfprintf: https://github.com/strongcourage/PoCs/blob/master/pdf2json b671b64/PoC so vfprintf
 Valgrind says:
    valgrind pdf2json PoC_so_vfprintf /dev/null
==8530== Memcheck, a memory error detector
    ==8530== Copyright (C) 2002-2015, and GNU GPL'd, by Julian Seward et al.
    ==8530== Using Valgrind-3.11.0 and LibVEX; rerun with -h for copyright info
==8530== Command: ./pdf2json PoC_so_vfprintf /dev/null
    ==8530==
Error: PDF file is damaged - attempting to reconstruct xref table...
    Error (13719): Illegal character <8e> in hex string
Error (13778): Illegal character <db> in hex string
Error (13781): Illegal character <94> in hex string
     Error (13782): Illegal character <02> in hex string
    Error (13783): Illegal character <a2> in hex string
Error: End of file inside array
Error: End of file inside dictionary
     Error (193): Illegal character '>
    Error (195): Dictionary key must be a name object
Error (203): Dictionary key must be a name object
Error (229): Dictionary key must be a name object
    Error (229): Dictionary key must be a name object
Error (221): Dictionary key must be a name object
Error (491): Illegal character <601> in hex string
Error (496): Illegal character <602 in hex string
Error (496): Illegal character <603 in hex string
Error (500): Illegal character <603 in hex string
     Error (506): Illegal character <6f> in hex string
    Error (508): Illegal character <6a> in hex string
    Error (510): Illegal character <3c> in hex string
Error (511): Illegal character <3c> in hex string
    Error (513): Illegal character <2f> in hex string
    Error (8023): Dictionary key must be a name object ==8530== Stack overflow in thread #1: can't grow stack to 0xffe801000
    ==8530==
     ==8530== Process terminating with default action of signal 11 (SIGSEGV)
    ==8530== Access not within mapped region at address 0xFFE801FF8
==8530== Stack overflow in thread #1: can't grow stack to 0xffe801000
     ==8530== at 0x5756642: _IO_default_xsputn (genops.c:422) ==8530== If you believe this happened as a result of a stack
    ==8530== overflow in your program's main thread (unlikely but
==8530== possible), you can try to increase the size of the
==8530== main thread stack using the --main-stacksize= flag.
    ==8530== The main thread stack size used in this run was 8388608.
==8530== Stack overflow in thread #1: can't grow stack to 0xffe80100
    ==8530==
     ==8530== Process terminating with default action of signal 11 (SIGSEGV)
    --0-3500-- Frocess cerminating with denaut action or signal it (313609)
--85300-- Access not within mapped region at address 0xFFE801FF0
--85300-- Stack overflow in thread #1: can't grow stack to 0xfFe801000
--85300-- at 0x4A26806: yegul freeres (in /usr/lib/valgrind/vgpreload_core-amd64-linux.so)
--85300-- If you believe this happened as a result of a stack
    ==8530== overflow in your program's main thread (unlikely but
==8530== possible), you can try to increase the size of the
==8530== main thread stack using the --main-stacksize= flag.
     ==8530== The main thread stack size used in this run was 8388608.
    ==8530== HEAP SUMMARY:
     ==8530==
                          in use at exit: 15,497,401 bytes in 256,831 blocks
    ==8530== total heap usage: 435,600 allocs, 178,769 frees, 16,602,462 bytes allocated
     ==8530== LEAK SUMMARY:
     ==8530== definitely lost: 0 bytes in 0 blocks
    ==8330== indirectly lost: 0 bytes in 0 blocks
==8530== possibly lost: 0 bytes in 0 blocks
==8530== still reachable: 15,497,401 bytes in 256,831 blocks
==8530== suppressed: 0 bytes in 0 blocks
==8530== Rerun with --leak-check=full to see details of leaked memory
     ==8530==
     ==8530== For counts of detected and suppressed errors, rerun with: -v
     ==8530== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
    Segmentation fault
Thanks.
Manh Dung
```

Strongcourage changed the title Segmentation fault (stack overflow) on viprintf SEGV (stack overflow) on viprintf on May 29, 2019

Labels None yet	
Projects None yet	
Milestone No milestone	
Development No branches or pull requests	

1 participant

