

New issue

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SEGV (stack overflow) on XRef::fetch #25

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

strongcourage commented on May 27, 2019 · edited

Hi,

Our fuzzer found a crash due to a stack overflow bug on the function XRef::fetch (the latest commit [b671b64](#) on master - version 0.70).

PoC_so_XRef::fetch: https://github.com/strongcourage/PoCs/blob/master/pdf2json_b671b64/PoC_so_XRef::fetch

Valgrind says:

```
valgrind pdf2json PoC_so_XRef\::fetch /dev/null
==17786== Memcheck, a memory error detector
==17786== Copyright (C) 2002-2015, and GNU GPL'd, by Julian Seward et al.
==17786== Using Valgrind-3.11.0 and LibVEX; rerun with -h for copyright info
==17786== Command: ./pdf2json PoC_so_XRef::fetch /dev/null
==17786==
==17786== Stack overflow in thread #1: can't grow stack to 0xffe801000
==17786==
==17786== Process terminating with default action of signal 11 (SIGSEGV)
==17786== Access not within mapped region at address 0xffe801ff8
==17786== Stack overflow in thread #1: can't grow stack to 0xffe801000
==17786== at 0x4090a2: Object::Object() (in /home/dungnguyen/PoCs/pdf2json_b671b64/pdf2json)
==17786== by 0x43f7ab: XRef::fetch(int, int, Object*) (in /home/dungnguyen/PoCs/pdf2json_b671b64/pdf2json)
==17786== by 0x43ce5b: ObjectStream::ObjectStream(XRef*, int) (in /home/dungnguyen/PoCs/pdf2json_b671b64/pdf2json)
==17786== by 0x43fb1f: XRef::fetch(int, int, Object*) (in /home/dungnguyen/PoCs/pdf2json_b671b64/pdf2json)
==17786== by 0x43ce5b: ObjectStream::ObjectStream(XRef*, int) (in /home/dungnguyen/PoCs/pdf2json_b671b64/pdf2json)
==17786== by 0x43fb1f: XRef::fetch(int, int, Object*) (in /home/dungnguyen/PoCs/pdf2json_b671b64/pdf2json)
==17786== by 0x43ce5b: ObjectStream::ObjectStream(XRef*, int) (in /home/dungnguyen/PoCs/pdf2json_b671b64/pdf2json)
==17786== by 0x43fb1f: XRef::fetch(int, int, Object*) (in /home/dungnguyen/PoCs/pdf2json_b671b64/pdf2json)
==17786== by 0x43ce5b: ObjectStream::ObjectStream(XRef*, int) (in /home/dungnguyen/PoCs/pdf2json_b671b64/pdf2json)
==17786== by 0x43fb1f: XRef::fetch(int, int, Object*) (in /home/dungnguyen/PoCs/pdf2json_b671b64/pdf2json)
==17786== If you believe this happened as a result of a stack
==17786== overflow in your program's main thread (unlikely but
==17786== possible), you can try to increase the size of the
==17786== main thread stack using the --main-stacksize= flag.
==17786== The main thread stack size used in this run was 8388608.
==17786== Stack overflow in thread #1: can't grow stack to 0xffe801000
==17786==
==17786== Process terminating with default action of signal 11 (SIGSEGV)
==17786== Access not within mapped region at address 0xffe801ff8
==17786== Stack overflow in thread #1: can't grow stack to 0xffe801000
==17786== at 0x4a28680: _vgnu_freeres (in /usr/lib/valgrind/vgpreload_core-amd64-linux.so)
==17786== If you believe this happened as a result of a stack
==17786== overflow in your program's main thread (unlikely but
==17786== possible), you can try to increase the size of the
==17786== main thread stack using the --main-stacksize= flag.
==17786== The main thread stack size used in this run was 8388608.
==17786==
==17786== HEAP SUMMARY:
==17786==   in use at exit: 836,551 bytes in 27,879 blocks
==17786==   total heap usage: 27,938 allocs, 59 frees, 946,615 bytes allocated
==17786==
==17786== LEAK SUMMARY:
==17786==   definitely lost: 0 bytes in 0 blocks
==17786==   indirectly lost: 0 bytes in 0 blocks
==17786==   possibly lost: 0 bytes in 0 blocks
==17786==   still reachable: 836,551 bytes in 27,879 blocks
==17786==   suppressed: 0 bytes in 0 blocks
==17786== Rerun with --leak-check=full to see details of leaked memory
==17786==
==17786== For counts of detected and suppressed errors, rerun with: -v
==17786== 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 XRef::fetch~~ SEGV (stack overflow) on XRef::fetch on May 29, 2019

Assignees
No one assigned

Labels
None yet

Projects
None yet

Milestone
No milestone

Development

No branches or pull requests

1 participant

