heap_buffer_overflow_in_readScan #14

Open

Cvjark opened this issue on Aug 7 · 0 comments

Cvjark commented on Aug 7 • edited •

Hi, in the lastest version of this code [ps: commit id ffaf11c] I found something unusual.

crash sample

8id103_heap_buffer_overflow_in_readScan.zip

command to reproduce

./pdftops -q [crash sample] /dev/null

crash detail

```
_____
==115797==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x7fcb48dd5800 at pc
0x00000074635f bp 0x7ffcc31156f0 sp 0x7ffcc31156e8
READ of size 4 at 0x7fcb48dd5800 thread T0
   #0 0x74635e in DCTStream::readScan() /home/bupt/Desktop/xpdf/xpdf/Stream.cc:2549:18
   #1 0x7401e0 in DCTStream::reset() /home/bupt/Desktop/xpdf/Xpdf/Stream.cc:2257:7
   #2 0x68912e in Object::streamReset() /home/bupt/Desktop/xpdf/./Object.h:282:13
   #3 0x68912e in Lexer::Lexer(XRef*, Object*) /home/bupt/Desktop/xpdf/xpdf/Lexer.cc:74:12
   #4 0x581714 in Gfx::display(Object*, int) /home/bupt/Desktop/xpdf/xpdf/Gfx.cc:641:33
   #5 0x6a76a1 in Page::displaySlice(OutputDev*, double, double, int, int, int, int, int, int,
int, int (*)(void*), void*) /home/bupt/Desktop/xpdf/xpdf/Page.cc:360:10
   #6 0x6d5f6e in PSOutputDev::checkPageSlice(Page*, double, double, int, int, int, int, int,
int, int, int (*)(void*), void*) /home/bupt/Desktop/xpdf/xpdf/PSOutputDev.cc:3276:11
   #7 0x6a7172 in Page::displaySlice(OutputDev*, double, double, int, int, int, int, int, int,
int, int (*)(void*), void*) /home/bupt/Desktop/xpdf/xpdf/Page.cc:328:13
   #8 0x6a6f81 in Page::display(OutputDev*, double, double, int, int, int, int, int (*)(void*),
void*) /home/bupt/Desktop/xpdf/xpdf/Page.cc:308:3
   #9 0x6af9b4 in PDFDoc::displayPage(OutputDev*, int, double, double, int, int, int, int
(*)(void*), void*) /home/bupt/Desktop/xpdf/xpdf/PDFDoc.cc:384:27
   #10 0x6af9b4 in PDFDoc::displayPages(OutputDev*, int, int, double, double, int, int, int, int,
int (*)(void*), void*) /home/bupt/Desktop/xpdf/xpdf/PDFDoc.cc:397:5
   #11 0x796d81 in main /home/bupt/Desktop/xpdf/xpdf/pdftops.cc:342:10
```

```
#12 0x7fcb4b949c86 in libc start main /build/glibc-CVJwZb/glibc-2.27/csu/../csu/libc-
start.c:310
  #13 0x41d5d9 in _start (/home/bupt/Desktop/xpdf/xpdf/pdftops+0x41d5d9)
0x7fcb48dd5800 is located 0 bytes to the right of 131072-byte region
[0x7fcb48db5800,0x7fcb48dd5800)
allocated by thread T0 here:
  #0 0x4afba0 in malloc /home/bupt/Desktop/tools/llvm-12.0.1/llvm/projects/compiler-
rt/lib/asan/asan malloc linux.cpp:145
  #1 0x7aa7fa in gmalloc /home/bupt/Desktop/xpdf/goo/gmem.cc:102:13
  #2 0x7aa7fa in gmallocn /home/bupt/Desktop/xpdf/goo/gmem.cc:168:10
SUMMARY: AddressSanitizer: heap-buffer-overflow /home/bupt/Desktop/xpdf/xpdf/Stream.cc:2549:18 in
DCTStream::readScan()
Shadow bytes around the buggy address:
 =>0x0ff9e91b2b00:[fa]fa fa fa
 Shadow byte legend (one shadow byte represents 8 application bytes):
 Addressable:
                00
 Partially addressable: 01 02 03 04 05 06 07
 Heap left redzone: fa
 Freed heap region:
 Stack left redzone:
                 f1
 Stack mid redzone:
                 f2
 Stack right redzone:
                 f3
                 f5
 Stack after return:
 Stack use after scope: f8
 Global redzone:
                 f9
 Global init order:
                 f6
 Poisoned by user:
                 f7
 Container overflow:
                 fc
 Array cookie:
                 ac
 Intra object redzone:
                 hh
 ASan internal:
                 fe
 Left alloca redzone:
                 ca
 Right alloca redzone:
                 cb
 Shadow gap:
                  \mathsf{CC}
==115797==ABORTING
```

Assignees

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

1 participant

