## heap\_buffer\_overflow\_in\_lookChar #15

Open

Cvjark opened this issue on Aug 7 · 1 comment

Cvjark commented on Aug 7 • edited ▼

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

## crash sample

8id148\_heap\_buffer\_overflow\_in\_lookChar.zip

## command to reproduce

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

## crash detail

```
_____
==115813==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x631000038800 at pc
0x000000754566 bp 0x7ffe27e56210 sp 0x7ffe27e56208
READ of size 4 at 0x631000038800 thread T0
   #0 0x754565 in DCTStream::lookChar() /home/bupt/Desktop/xpdf/xpdf/Stream.cc:2331:12
   #1 0x68a82a in Object::streamLookChar() /home/bupt/Desktop/xpdf/xpdf/./Object.h:291:20
   #2 0x68a82a in Lexer::lookChar() /home/bupt/Desktop/xpdf/xpdf/Lexer.cc:108:17
   #3 0x68a82a in Lexer::getObj(Object*) /home/bupt/Desktop/xpdf/xpdf/Lexer.cc:458:17
   #4 0x6ab867 in Parser::getObj(Object*, int, unsigned char*, CryptAlgorithm, int, int, int,
int) /home/bupt/Desktop/xpdf/xpdf/Parser.cc
   #5 0x6aa214 in Parser::getObj(Object*, int, unsigned char*, CryptAlgorithm, int, int, int,
int) /home/bupt/Desktop/xpdf/xpdf/Parser.cc:69:21
   #6 0x582f60 in Gfx::go(int) /home/bupt/Desktop/xpdf/xpdf/Gfx.cc:757:13
   #7 0x581775 in Gfx::display(Object*, int) /home/bupt/Desktop/xpdf/xpdf/Gfx.cc:642:3
   #8 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
   #9 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
   #10 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
   #11 0x6a6f81 in Page::display(OutputDev*, double, double, int, int, int, int (*)(void*),
void*) /home/bupt/Desktop/xpdf/xpdf/Page.cc:308:3
```

```
#12 0x6af9b4 in PDFDoc::displayPage(OutputDev*, int, double, double, int, int, int, int, int
(*)(void*), void*) /home/bupt/Desktop/xpdf/xpdf/PDFDoc.cc:384:27
  #13 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
  #14 0x796d81 in main /home/bupt/Desktop/xpdf/xpdf/pdftops.cc:342:10
  #15 0x7f3e6975dc86 in __libc_start_main /build/glibc-CVJwZb/glibc-2.27/csu/../csu/libc-
start.c:310
  #16 0x41d5d9 in _start (/home/bupt/Desktop/xpdf/xpdf/pdftops+0x41d5d9)
0x631000038800 is located 0 bytes to the right of 65536-byte region
[0x631000028800,0x631000038800)
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:2331:12 in
DCTStream::lookChar()
Shadow bytes around the buggy address:
 =>0x0c627ffff100:[fa]fa fa fa
 Shadow byte legend (one shadow byte represents 8 application bytes):
 Addressable:
 Partially addressable: 01 02 03 04 05 06 07
 Heap left redzone:
                   fa
 Freed heap region:
                   fd
 Stack left redzone:
                   f1
 Stack mid redzone:
                   f2
 Stack right redzone:
                   f3
 Stack after return:
                   f5
 Stack use after scope:
                   f8
 Global redzone:
                   f9
 Global init order:
                   f6
                   f7
 Poisoned by user:
 Container overflow:
                   fc
 Array cookie:
                   ac
 Intra object redzone:
                   bb
 ASan internal:
                   fe
 Left alloca redzone:
                   ca
 Right alloca redzone:
                   cb
 Shadow gap:
                   CC
==115813==ABORTING
```

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

2 participants

