heap_buffer_overflow_in_transformDataUnit #7

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

8id64_heap_buffer_overflow_in_transformDataUnit.zip

command to reproduce

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

crash detail

```
_____
==115877==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x6200000080e0 at pc
0x000000756136 bp 0x7fff10b0da30 sp 0x7fff10b0da28
READ of size 2 at 0x6200000080e0 thread T0
   #0 0x756135 in DCTStream::transformDataUnit(unsigned short*, int*, unsigned char*)
/home/bupt/Desktop/xpdf/xpdf/Stream.cc:2968:17
   #1 0x748741 in DCTStream::decodeImage() /home/bupt/Desktop/xpdf/xpdf/Stream.cc:2835:6
   #2 0x7402bb in DCTStream::reset() /home/bupt/Desktop/xpdf/Xpdf/Stream.cc:2261:5
   #3 0x68912e in Object::streamReset() /home/bupt/Desktop/xpdf/xpdf/./Object.h:282:13
   #4 0x68912e in Lexer::Lexer(XRef*, Object*) /home/bupt/Desktop/xpdf/xpdf/Lexer.cc:74:12
   #5 0x581714 in Gfx::display(Object*, int) /home/bupt/Desktop/xpdf/xpdf/Gfx.cc:641:33
   #6 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
   #7 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
   #8 0x6a7172 in Page::displaySlice(OutputDev*, double, double, int, int, int, int, int,
int, int (*)(void*), void*) /home/bupt/Desktop/xpdf/xpdf/Page.cc:328:13
   #9 0x6a6f81 in Page::display(OutputDev*, double, double, int, int, int, int, int (*)(void*),
void*) /home/bupt/Desktop/xpdf/xpdf/Page.cc:308:3
   #10 0x6af9b4 in PDFDoc::displayPage(OutputDev*, int, double, double, int, int, int, int
(*)(void*), void*) /home/bupt/Desktop/xpdf/xpdf/PDFDoc.cc:384:27
   #11 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
  #12 0x796d81 in main /home/bupt/Desktop/xpdf/xpdf/pdftops.cc:342:10
  #13 0x7f57efb1ec86 in __libc_start_main /build/glibc-CVJwZb/glibc-2.27/csu/../csu/libc-
start.c:310
  #14 0x41d5d9 in start (/home/bupt/Desktop/xpdf/xpdf/pdftops+0x41d5d9)
Address 0x6200000080e0 is a wild pointer.
SUMMARY: AddressSanitizer: heap-buffer-overflow /home/bupt/Desktop/xpdf/xpdf/Stream.cc:2968:17 in
DCTStream::transformDataUnit(unsigned short*, int*, unsigned char*)
Shadow bytes around the buggy address:
 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:
                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
 Poisoned by user:
                f7
 Container overflow:
                fc
 Array cookie:
                ac
 Intra object redzone:
                bb
 ASan internal:
                fe
 Left alloca redzone:
                ca
 Right alloca redzone:
                cb
 Shadow gap:
                CC
==115877==ABORTING
```

Assignees

No one assigned

Labels

None yet

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

1 participant

