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heap-buffer-overflow_in_readHuffSym #3

Open

Cvjark opened this issue on Aug 7 · 2 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

8id0_heap-buffer-overflow_in_readHuffSym.zip

command to reproduce

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

crash detail

```
_____
==108391==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x620000001782 at pc
0x000000759029 bp 0x7ffd51edc550 sp 0x7ffd51edc548
READ of size 2 at 0x620000001782 thread T0
   #0 0x759028 in DCTStream::readHuffSym(DCTHuffTable*)
/home/bupt/Desktop/xpdf/xpdf/Stream.cc:3119:16
   #1 0x7548ba in DCTStream::readDataUnit(DCTHuffTable*, DCTHuffTable*, int*, int*)
/home/bupt/Desktop/xpdf/xpdf/Stream.cc:2624:17
   #2 0x751b27 in DCTStream::readMCURow() /home/bupt/Desktop/xpdf/xpdf/Stream.cc:2392:9
   #3 0x750d6e in DCTStream::getChar() /home/bupt/Desktop/xpdf/xpdf/Stream.cc:2316:12
   #4 0x6899e3 in Object::streamGetChar() /home/bupt/Desktop/xpdf/./Object.h:288:20
   #5 0x6899e3 in Lexer::getChar() /home/bupt/Desktop/xpdf/xpdf/Lexer.cc:92:42
   #6 0x6899e3 in Lexer::getObj(Object*) /home/bupt/Desktop/xpdf/xpdf/Lexer.cc:124:14
   #7 0x6a8fc5 in Parser::Parser(XRef*, Lexer*, int) /home/bupt/Desktop/xpdf/xpdf/Parser.cc:33:10
   #8 0x581742 in Gfx::display(Object*, int) /home/bupt/Desktop/xpdf/xpdf/Gfx.cc:641:16
   #9 0x6a76a1 in Page::displaySlice(OutputDev*, double, double, int, int, int, int, int,
int, int (*)(void*), void*) /home/bupt/Desktop/xpdf/xpdf/Page.cc:360:10
   #10 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
   #11 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
   #12 0x6a6f81 in Page::display(OutputDev*, double, double, int, int, int, int (*)(void*),
```

```
void*) /home/bupt/Desktop/xpdf/xpdf/Page.cc:308:3
   #13 0x6af9b4 in PDFDoc::displayPage(OutputDev*, int, double, double, int, int, int, int
(*)(void*), void*) /home/bupt/Desktop/xpdf/xpdf/PDFDoc.cc:384:27
   #14 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
   #15 0x796d81 in main /home/bupt/Desktop/xpdf/xpdf/pdftops.cc:342:10
   #16 0x7f3b180d3c86 in __libc_start_main /build/glibc-CVJwZb/glibc-2.27/csu/../csu/libc-
start.c:310
   #17 0x41d5d9 in _start (/home/bupt/Desktop/xpdf/xpdf/pdftops+0x41d5d9)
0x620000001782 is located 2314 bytes to the right of 3576-byte region
[0x620000000080,0x620000000e78)
allocated by thread T0 here:
   #0 0x4f5768 in operator new(unsigned long) /home/bupt/Desktop/tools/llvm-
12.0.1/llvm/projects/compiler-rt/lib/asan/asan_new_delete.cpp:99
   #1 0x7259bc in Stream::makeFilter(char*, Stream*, Object*, int)
/home/bupt/Desktop/xpdf/xpdf/Stream.cc:269:11
   #2 0x72459a in Stream::addFilters(Object*, int) /home/bupt/Desktop/xpdf/xpdf/Stream.cc:141:11
   #3 0x6ad41e in Parser::makeStream(Object*, unsigned char*, CryptAlgorithm, int, int, int)
/home/bupt/Desktop/xpdf/xpdf/Parser.cc:214:14
   #4 0x6ab6f6 in Parser::getObj(Object*, int, unsigned char*, CryptAlgorithm, int, int, int,
int) /home/bupt/Desktop/xpdf/xpdf/Parser.cc:101:18
   #5 0x781a3a in XRef::fetch(int, int, Object*, int)
/home/bupt/Desktop/xpdf/xpdf/XRef.cc:1028:13
   #6 0x6a7611 in Page::displaySlice(OutputDev*, double, double, int, int, int, int, int, int,
int, int (*)(void*), void*) /home/bupt/Desktop/xpdf/xpdf/Page.cc:357:12
   #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
SUMMARY: AddressSanitizer: heap-buffer-overflow /home/bupt/Desktop/xpdf/xpdf/Stream.cc:3119:16 in
DCTStream::readHuffSym(DCTHuffTable*)
Shadow bytes around the buggy address:
 0x0c407fff82c0: fa fa
 =>0x0c407fff82f0:[fa]fa fa fa
 Shadow byte legend (one shadow byte represents 8 application bytes):
 Addressable:
                   99
 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
==108391==ABORTING
```

ajakk commented on Aug 17

This doesn't appear to be the upstream repo for xpdf. Why did you fuzz it? This repo's last commit was in 2014 at xpdf-3.04, while xpdf has received many updates since then, and is currently at 4.04. Can you reproduce these issues on upstream's xpdf?



Marceolv commented on Oct 26

Utilizando os conceitos de vetor, implemente um algoritmo que

- 1 inclua até 1000 usuários;
- 2- edite um usuário:
- 3- exclua um usuário;
- 4- busque um usuário por e-mail;
- 5- imprima todos os usuários cadastrados;
- 6- faça backup dos usuários cadastrados;
- 7- faça restauração dos dados.

Dados do usuário

Id (Int)- preenchido automaticamente por números radomicos;

Nome completo (string);

E-mail (string) - tem que aparecer o @;

Sexo (string);

Endereço (string);

Altura(double)- aceitar valores de 1 e 2 m;

Vacina (ex: tomou Vacina)

| 1 Using vector concepts, implement an algorithm that: |
|---|
| 1- include up to 1000 users; |
| 2- edit a user; |
| 3- Delete a user; |
| 4- search for a user by email; |
| 5- Print all registered users; |
| 6- back up registered users; |
| 7- Restore the data. |
| User data |
| Id (Int)- automatically filled in by radomic numbers; |
| Full name (string); |
| E-mail (string) - the @ has to appear; |
| Sex (string); |
| Address (string); |
| Height (double)- accept values of 1 and 2 m; |
| Vaccine (e.g. did you get a vaccine?). |
| Assignees No one assigned Labels None yet |
| Projects |
| None yet |
| Milestone |
| No milestone |
| Development |
| No branches or pull requests |
| |
| 3 participants |
| |
| |