

Bug Report: pdftotext in Xpdf 4.04

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vjgo



Bug Report: pdftotext in Xpdf 4.04

Mon Oct 03, 2022 7:35 am

Hello.

I am a security researcher and I tried to explore fuzzing.

During fuzzing, I found several crashes in the pdftotext in Xpdf 4.04.

The crashes were caused by `Catalog::countPageTree()` and `Catalog::readPageLabelTree2(Object*)` functions.

I used the following command to reproduce the crashes.

CODE: [SELECT ALL](#)

```
pdftotext poc.pdf
```

The following is backtrace log by ASAN.

Crash 1 in binary pdttext (using Poc1)

CODE: [SELECT ALL](#)

```
Syntax Error: Couldn't read xref table
Syntax Warning: PDF file is damaged - attempting to reconstruct xref table...
Syntax Error (314): Dictionary key must be a name object
Syntax Error (316): Dictionary key must be a name object
Syntax Error (318): Dictionary key must be a name object
Syntax Error (321): Dictionary key must be a name object
Syntax Error (330): Dictionary key must be a name object
Syntax Error (332): Dictionary key must be a name object
Syntax Error (336): Dictionary key must be a name object
Syntax Error (339): Dictionary key must be a name object
Syntax Error (345): Dictionary key must be a name object
AddressSanitizer:DEADLYSIGNAL
=====
```

Crash 2 in binary pdftotext (using Poc2)

CODE: [SELECT ALL](#)

```
Syntax Error: Couldn't read xref table
Syntax Warning: PDF file is damaged - attempting to reconstruct xref table...
Syntax Error (5797): Dictionary key must be a name object
Syntax Error (5804): Dictionary key must be a name object
Syntax Error (6264): Illegal character ')'
Syntax Error (6282): Illegal character '>'
Syntax Error (8723): Missing 'endstream'
Syntax Error (582): Dictionary key must be a name object
Syntax Error (584): Dictionary key must be a name object
Syntax Error (592): Dictionary key must be a name object
```

```
Syntax Error (5117): Illegal character ' ) '  
Syntax Error (5797): Dictionary key must be a name object  
Syntax Error (5804): Dictionary key must be a name object
```

Please check it out.

Thank you

Sincerely,

yjgo.

ATTACHMENTS

[Poc.zip](#)

(14.04 KiB) Downloaded 18 times

derekn



Re: Bug Report: pdftotext in Xpdf 4.04

📅 Wed Oct 05, 2022 8:41 pm

Those are both loops in the PDF object structure. I'm working on a more robust loop detector for Xpdf 5.

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