

```
commit 3dfc102
os version: ubuntu 16.04
  //pdf.c:205:34
  void[ pdf_get_version](url)(FILE *fp, pdf_t *pdf)
     char *header, *c;
     header = get header(fp);
     pdf->pdf_major_version = atoi(c + strlen("%PDF-"));
      --> pdf->pdf_minor_version = atoi(c + strlen("%PDF-M."));
     free(header);
  root@ubuntu:/home/fuzz/pdfresurrect# ./pdfresurrect poc
  ==12207==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x619000000981 at pc 0x00000004b27bc bp 0x7ffec7acc460 sp 0x7ffec7acbc00
  READ of size 1 at 0x619000000981 thread T0
      #0 0x4b27bb in _interceptor_atoi (/home/fuzz/pdfresurrect/pdfresurrect+0x4b27bb)
#1 0x4f9bf2 in pdf_get_version /home/fuzz/pdfresurrect/pdf.c:205:34
#2 0x4f8aac in init_pdf /home/fuzz/pdfresurrect/main.c:205:5
      #3 0x4f84e3 in main /home/fuzz/pdfresurrect/main.c:279:17
      #4 0x7f7e5efd783f in __libc_start_main /build/glibc-e6zv40/glibc-2.23/csu/../csu/libc-start.c:291
      #5 0x41ae18 in start (/home/fuzz/pdfresurrect/pdfresurrect+0x41ae18)
  0x61900000981 is located 1 bytes to the right of 1024-byte region [0x619000000580,0x619000000980)
  allocated by thread T0 here:
#0 0x4c6fca in calloc (/home/fuzz/pdfresurrect/pdfresurrect+0x4c6fca)
      #1 0x4f8254 in safe_calloc /home/fuzz/pdfresurrect/main.c:223:16
#2 0x4f9ad0 in get_header /home/fuzz/pdfresurrect/pdf.c:1230:20
     #3 0x4f9ba1 in pdf_get_version /home/fuzz/pdfresurrect/pdf.c:198:14
#4 0x4f8aac in init_pdf /home/fuzz/pdfresurrect/main.c:205:5
      #5 0x4f84e3 in main /home/fuzz/pdfresurrect/main.c:279:17
      #6 0x7f7e5efd783f in __libc_start_main /build/glibc-e6zv40/glibc-2.23/csu/../csu/libc-start.c:291
  SUMMARY: AddressSanitizer: heap-buffer-overflow (/home/fuzz/pdfresurrect/pdfresurrect+0x4b27bb) in __interceptor_atoi
  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:
    Stack mid redzone:
                           f2
    Stack right redzone:
    Stack after return:
    Stack use after scope:
    Global redzone:
    Global init order:
    Poisoned by user:
    Container overflow:
    Array cookie:
    Intra object redzone:
ASan internal:
                           hh
    Left alloca redzone:
    Right alloca redzone:
    Shadow gap:
  ==12207==ABORTING
build arg:
  export CC="clang-8"
  export CXFLang++-8"

export CFLAGS="-01 -fno-omit-frame-pointer -gline-tables-only -DFUZZING_BUILD_MODE_UNSAFE_FOR_PRODUCTION -fsanitize=address -fsanitize-address-use-after-scope -fsanitize-coverage=trac
  export CXXFLAGS="-01 -fno-omit-frame-pointer -gline-tables-only -DFUZZING_BUILD_MODE_UNSAFE_FOR_PRODUCTION -fsanitize-address -fsanitize-address-use-after-scope -fsanitize-coverage=tr
   ./configure
  LDFLAGS="$CXXFLAGS" make -i$(nproc)
   4
poc1.gz
Credit: 1vanChen of NSFOCUS Security Team
```

enferex commented on Jul 24, 2020 Owner

I can repro this on master, I've updated the header checks and gave you a shout-out in the AUTHORS file. Thanks!



yifengchen-cc commented on Apr 9, 2021	Author
This issue has been assigned CVE-2020-20740.	
Assignees	
No one assigned	
Labels	
None yet	
Projects	
None yet	
Milestone	
No milestone	
Development	
No branches or pull requests	
2 participants	