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A heap-based buffer overflow Read in RemoveSectionType in jpgfile.c #15

⊙ Closed giantbranch opened this issue on Feb 26, 2021 · 1 comment

```
giantbranch commented on Feb 26, 2021
Description of problem:
A heap-based buffer overflow Read in RemoveSectionType in jpgfile.c
Version-Release number of selected component (if applicable):
I tested the following version:
Jhead version: 3.05
Jhead version: 3.04
How reproducible
git clone --depth=1 https://github.com/Matthias-Wandel/jhead.git && cd jhead && make CC="clang" -e CFLAGS="-g -fsanitize=address" -e LDFLAGS="-g -fsanitize=address"
1.just run the following command
    ./jhead -purejpg ./tests_61786.jpg
tests_61786.zip
 AddressSanitizer Report
    $ ./jhead -purejpg ./tests_61786.jpg
      ==26249==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x60e0000000e0 at pc 0x000000494f5f bp 0x7ffc20743730 sp 0x7ffc20742ef8
     READ of size 160 at 0x60e0000000e0 thread T0
            #0 0x494f5e in __asan_memmove (/root/fuzz/jhead/jhead+0x494f5e)
            #1 0x4d14ff in RemoveSectionType /root/fuzz/jhead/jpgfile.c:669:13
#2 0x4ca649 in ProcessFile /root/fuzz/jhead/jhead.c:1173:13
            #3 0x4c74e5 in main /root/fuzz/ihead/ihead.c:1759:13
            #4 0x7fc05b29283f in __libc_start_main /build/glibc-e6zv40/glibc-2.23/csu/../csu/libc-start.c:291
            \begin{tabular}{lll} \#5 & 0x41b858 & in \_start & (/root/fuzz/jhead/jhead+0x41b858) \end{tabular}
     0x60e0000000e0 is located 0 bytes to the right of 160-byte region [0x60e000000040,0x60e0000000000)
            #0 0x4959c9 in realloc (/root/fuzz/jhead/jhead+0x4959c9)
            #1 0x4cf59f in CheckSectionsAllocated /root/fuzz/jhead/jpgfile.c:107:33
#2 0x4ce3c0 in ReadJpegSections /root/fuzz/jhead/jpgfile.c:139:9
           #3 0x4cfd96 in ReadJpegFile /root/fuzz/jhead/jpgfile.c:381:11
#4 0x4c8850 in ProcessFile /root/fuzz/jhead/jhead.c:908:10
            #5 0x4c74e5 in main /root/fuzz/ihead/ihead.c:1759:13
            #6 0x7fc05b29283f in __libc_start_main /build/glibc-e6zv40/glibc-2.23/csu/../csu/libc-start.c:291
     {\tt SUMMARY: AddressSanitizer: heap-buffer-overflow (/root/fuzz/jhead/jhead+0x494f5e) in $\_asan\_memmoverflow(]$ in $\_asan
     Shadow byte legend (one shadow byte represents 8 application bytes):
        Addressable:
        Partially addressable: 01 02 03 04 05 06 07
        Freed heap region:
Stack left redzone:
        Stack mid redzone:
        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:
        Left alloca redzone:
        Right alloca redzone:
         Shadow gap:
     ==26249==ABORTING
 Additional info:
Founder: giantbranch of NSFOCUS Security Team
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Matthias-Wandel commented on Mar 4, 2021	Owner
Fixed by a50953a	
** Matthias-Wandel closed this as completed on Mar 4, 2021	
Assignees No one assigned	
Labels None yet	
Projects None yet	
Milestone No milestone	
Development Development	

2 participants

No branches or pull requests

