<> Code	\$ Pull requests	Actions	Projects	① Security	2	∠ Insights	

heap-buffer-overflow on jhead-3.04/jpgfile.c:285 ReadJpegSections

Package jhead	
Affected versions	Patched versions
<3.04	None

```
Description
    Impact
     heap-buffer-overflow on jhead-3.04/jpgfile.c:285 ReadJpegSections
     poc: https://bugs.launchpad.net/ubuntu/+source/jhead/+bug/1900821/+attachment/5424955/+files/poc%20%282%29
            fstark@fstark-virtual-machine: \sim /jhead $ ./jhead fuzz1 : id : 000015 \setminus , sig : 06 \setminus , src : 000476 \setminus , time : 412880 \setminus , op : arith8 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , val : +29 \setminus , pos : 31 \setminus , po
            ==957==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x60200000efd2 at pc 0x7f6d38f94676 bp 0x7ffd0abe47d0 sp 0x7ffd0abe3f78
            READ of size 4 at 0x60200000efd2 thread T0
                     #0 0x7f6d38f94675 in memcmp (/usr/lib/x86 64-linux-gnu/libasan.so.2+0x77675)
                     #1 0x40e810 in ReadJpegSections /home/fstark/jhead/jpgfile.c:285
#2 0x410e86 in ReadJpegSections /home/fstark/jhead/jpgfile.c:125
                     #3 0x410e86 in ReadJpegFile /home/fstark/jhead/jpgfile.c:378
#4 0x40858b in ProcessFile /home/fstark/jhead/jhead.c:905
                     #5 0x402f2c in main /home/fstark/jhead/jhead.c:1756
#6 0x7f6d3886a83f in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x2083f)
                      #7 0x406708 in _start (/home/fstark/jhead/jhead+0x406708)
            0x60200000efd2 is located 0 bytes to the right of 2-byte region [0x60200000efd0,0x60200000efd2)
                      #0 0x7f6d38fb5602 in malloc (/usr/lib/x86_64-linux-gnu/libasan.so.2+0x98602)
                      #1 0x40e4a8 in ReadJpegSections /home/fstark/jhead/jpgfile.c:172
            SUMMARY: AddressSanitizer: heap-buffer-overflow \ref{sum:eq:eq:heap-buffer} around the buggy address:
                 =>0x0c047fff9df0: fa fa fa fa fa fa fa fa fa fa[02]fa fa fa 02 fa
                 Shadow byte legend (one shadow byte represents 8 application bytes): Addressable: \theta\theta
                 Partially addressable: 01 02 03 04 05 06 07
Heap left redzone: fa
                 Heap right redzone: fb
                 Freed heap region: fd
                 Stack left redzone: f1
                  Stack mid redzone: f2
                 Stack right redzone: f3
                 Stack partial redzone: f4
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
==957==ABORTING
     Patches
    Fixed by 5186ddd
    Matthias-Wandel@ 5186ddd
      References
     Matthias-Wandel#7
```

Severity

Moderate

CVE ID

No known CVE

Weaknesses

No CWEs