

heap-buffer-overflow on jhead-3.04/exif.c:336 Get32s

Bug #1858746 reported by Binbin Li on 2020-01-08

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Affects		Status	Importance	Assigned to	Milestone
jhead (Ubuntu)	New	Undecided	Unassigned	

Bug Description

```
heap-buffer-overflow on jhead-3.04/exif.c:336 Get32s when we run ./jhead
./input/poc.
Nonfatal Error : './input/id_043' Suspicious offset of first Exif IFD
Nonfatal Error : './input/id_043' Maximum Exif directory nesting exceeded
(corrupt Exif header)
Nonfatal Error : './input/id_043' Illegal number format 32768 for tag 1000
in Exif
Nonfatal Error : './input/id_043' Maximum Exif directory nesting exceeded
(corrupt Exif header)
Nonfatal Error : './input/id_043' Illegal number format 95 for Exif gps
tag 002a
Nonfatal Error : './input/id_043' Illegal number format 62152 for Exif gps
tag 91bf
Nonfatal Error : './input/id_043' Illegal number format 65529 for Exif gps
tag ffff
Nonfatal Error : './input/id 043' Illegal number format 0 for Exif qps tag
Nonfatal Error : './input/id 043' Illegal number format 0 for Exif gps tag
Nonfatal Error : './input/id_043' Inappropriate format (4) for Exif GPS
```

Nonfatal Error : './input/id_043' Illegal number format 65535 for Exif gps

tag 1f00 Nonfatal Error : './input/id_043' Illegal number format 128 for Exif gps tag 0010

Nonfatal Error : './input/id_043' Illegal number format 0 for Exif gps tag 0087

Nonfatal Error : './input/id_043' Illegal number format 128 for Exif gps

Nonfatal Error : './input/id_043' Illegal number format 0 for Exif gps tag 0087 Nonfatal Error : './input/id 043' Illegal number format 0 for Exif gps tag

Nonfatal Error : './input/id 043' Illegal number format 0 for Exif gps tag

Nonfatal Error : './input/id 043' Illegal number format 257 for Exif gps

Nonfatal Error : './input/id 043' Illegal number format 23110 for Exif gps tag 4146

Nonfatal Error : './input/id_043' Inappropriate format (12) for Exif GPS coordinates!

==25863==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x611000009fdd at pc 0x00000040aeff bp 0x7ffe1a579f50 sp 0x7ffe1a579f40 READ of size 1 at 0x611000009fdd thread TO

#0 0x40aefe in Get32s /home/lbb/afl-experient/Tests/ASAN/jhead-3. 04/exif.c:336 #1 0x4115dc in ProcessGpsInfo /home/lbb/afl-experient/Tests/ASAN/

jhead-3.04/gpsinfo.c:138 #2 0x40d9a3 in ProcessExifDir /home/lbb/afl-experient/Tests/ASAN/

jhead-3.04/exif.c:866 #3 0x40d91c in ProcessExifDir /home/lbb/afl-experient/Tests/ASAN/

#4 0x40d91c in ProcessExifDir /home/lbb/afl-experient/Tests/ASAN/ jhead-3.04/exif.c:852

#5 0x40d91c in ProcessExifDir /home/lbb/afl-experient/Tests/ASAN/ jhead-3.04/exif.c:852

#6 0x40d91c in ProcessExifDir /home/lbb/afl-experient/Tests/ASAN/ jhead-3.04/exif.c:852

#7 0x40e09a in process_EXIF /home/lbb/afl-experient/Tests/ASAN/jhead-3.04/exif.c:1041

#8 0x408318 in ReadJpegSections /home/lbb/afl-experient/Tests/ASAN/ ihead-3.04/ipgfile.c:287 #9 0x408581 in ReadJpegFile /home/lbb/afl-experient/Tests/ASAN/jhead-

3.04/jpgfile.c:379 #10 0x405039 in ProcessFile /home/lbb/afl-experient/Tests/ASAN/jhead-

3.04/ihead.c:905 #11 0x40267d in main /home/lbb/afl-experient/Tests/ASAN/jhead-3. 04/jhead.c:1756

#12 0x7ff18ec8a82f in libc start main (/lib/x86 64-linux-gnu/libc.

 ± 13 0x403c38 in _start (/home/lbb/afl-experient/Tests/ASAN/jhead-3. 04/jhead+0x403c38)

0x611000009fdd is located 3 bytes to the right of 218-byte region [0x611000009f00,0x611000009fda) allocated by thread TO here:

#0 0x7ff18f3d5602 in malloc (/usr/lib/x86 64-linux-gnu/libasan. so.2+0x98602)

#1 0x40798b in ReadJpegSections /home/lbb/afl-experient/Tests/ASAN/ jhead-3.04/jpgfile.c:173

#2 0x408581 in ReadJpegFile /home/lbb/afl-experient/Tests/ASAN/jhead-3.04/jpgfile.c:379

#3 0x405039 in ProcessFile /home/lbb/afl-experient/Tests/ASAN/jhead-3. 04/jhead.c:905 #4 0x40267d in main /home/lbb/afl-experient/Tests/ASAN/jhead-3.

04/jhead.c:1756 #5 0x7ff18ec8a82f in __libc_start_main (/lib/x86_64-linux-gnu/libc. so.6+0x2082f)

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sankaran

Bug attachments

Add attachment

```
SUMMARY: AddressSanitizer: heap-buffer-overflow /home/lbb/afl-experient/
Tests/ASAN/jhead-3.04/exif.c:336 Get32s
Shadow bytes around the buggy address:
 Shadow byte legend (one shadow byte represents 8 application bytes): \texttt{Addressable:} \ \texttt{00}
 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
==25863==ABORTING
```

Tags: heap-buffer-overflow jhead

CVE References

2020-6625



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