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global-buffer-overflow in function jfif_encode at jfif.c:701 #25

New issue

○ Closed WayneDevMaze opened this issue on Jun 22, 2020 · 1 comment

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WayneDevMaze commented on Jun 22, 2020
Describe
A global-buffer-overflow was discovered in ffjpeg. The issue is being triggered in function jfif_encode at jfif.c:701
Tested in Ubuntu 18.04, 64bit. Compile ffjpeg with address sanitizer as I changed CCFLAGS src/Makefile as:
  # ASan
CCFLAGS = -Wall -g -fsanitize=address -fno-omit-frame-pointer -O1
And do this command to reproduce this issue:
ffjpeg -e $poc
poc is here
Expected behavior
An attacker can exploit this vulnerability by submitting a malicious jpeg that exploits this issue. This will result in a Denial of Service (DoS) and when the application attempts to process the file.
  ==81140==ERROR: AddressSanitizer: global-buffer-overflow on address 0x56063a6c1b92 at pc 0x7f2c96918733 bp 0x7ffe503e7fe0 sp 0x7ffe503e7788
  READ of size 272 at 0x56063a6c1b92 thread T0
#0 0x7f2c96918732 (/usr/lib/x86_64-linux-gnu/libasan.so.4+0x79732)
      #1 0x56063a6a88e7 in memcpy /usr/include/x86_64-linux-gnu/bits/string_fortified.h:34
#2 0x56063a6a88e7 in jfif_encode /root/study/ffjpeg/src/jfif.c:701
      #3 0x56063a69b382 in main /root/study/ffjpeg/src/ffjpeg.c:30
#4 0x7f2c964cfb96 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x21b96)
      #5 0x56063a69b829 in start (/root/study/ffjpeg/test/ffjpeg+0x2829)
  0x56063a6c1b92 is located 0 bytes to the right of global variable 'STD_HUFTAB_LUMIN_AC' defined in 'huffman.c:388:12' (0x56063a6c1ae0) of size 178 SUMMARY: AddressSanitizer: global-buffer-overflow (/usr/lib/x86_64-linux-gnu/libasan.so.4+0x79732)
  Shadow bytes around the buggy address:
    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:
    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:
==81140==ABORTING
```



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	global-buffer-overflow in function jfif_encode at jfif.c:708 #44	
口	rockcarry added a commit that referenced this issue on Dec 1, 2021	
	Merge pull request #45 from Marsman1996/master …	23dffdf
Assigr	nees	
No on	ne assigned	
Labels	s	
None	yet	
Projec	cts	
None	yet	
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No mi	lestone	
Devel	lopment	
No bra	ranches or pull requests	
2 part	ticipants	

