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heap-buffer-overflow in ok_csv_circular_buffer_read() at ok_csv.c:95 #13



⊘ Closed aug5t7 opened this issue on Apr 29, 2021 · 3 comments

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aug5t7 commented on Apr 29, 2021
Description
A heap-buffer-overflow was discovered in ok_file_formats. The issue is being triggered in function ok_csv_circular_buffer_read() at ok_csv.c:95
Version
dev version, git clone https://github.com/brackeen/ok-file-formats.git
Environment
Ubuntu 18.04, 64bit
Reproduce
test program
  int main(int argc, char *argv[]) {
  FILE *file = fopen(argv[1], "rb");
  ok_csv *csv = ok_csv_read(file);
  fclose(file);
    ok_csv_free(csv);
return 0;
Compile test program with Address Sanitizer:
  gcc -g -fsanitize=address main-asan main.c ok_csv.c ok_csv.h
Asan Report
  $ ./main-asan ./poc.csv
   ==58179==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x606000000480 at pc 0x7f4834e5577a bp 0x7fff1198aed0 sp 0x7fff1198ae678
   WRITE of size 181 at 0x606000000480 thread T0
       #0 0x7f4834e55779 (/usr/lib/x86_64-linux-gnu/libasan.so.4+0x79779) #1 0x55fd598bd79a in ok_csv_circular_buffer_read /home/au9/ok-file-format/ok_csv.c:95
       #2 0x55fd598bf52d in ok_csv_decode2 /home/au9/ok-file-format/ok_csv.c:484
       #3 0x55fd598bdf1d in ok_csv_decode /home/au9/ok-file-format/ok_csv.c:241
       #4 0x55fd598bdd4a in ok_csv_read /home/au9/ok-file-format/ok_csv.c:177
       #5 0x55fd598bd0c2 in main /home/au9/ok-file-format/main.c:8
#6 0x7f4834a0cbf6 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x21bf6)
       #7 0x55fd598bcf89 in _start (/home/au9/ok-file-format/main-asan+0xf89)
   0x606000000480 is located 0 bytes to the right of 64-byte region [0x606000000440,0x606000000480)
   allocated by thread T0 here:
       #0 0x7f4834ebab40 in __interceptor_malloc (/usr/lib/x86_64-linux-gnu/libasan.so.4+0xdeb40) #1 0x55fd598bf4e1 in ok_csv_decode2 /home/au9/ok-file-format/ok_csv.c:479
       #2 0x55fd598bdf1d in ok_csy_decode /home/au9/ok-file-format/ok_csv.c:241
#3 0x55fd598bdd4a in ok_csv_read /home/au9/ok-file-format/ok_csv.c:177
       #4 0x55fd598bd0c2 in main /home/au9/ok-file-format/main.c:8
       #5 0x7f4834a0cbf6 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x21bf6)
   {\tt SUMMARY: AddressSanitizer: heap-buffer-overflow~(/usr/lib/x86\_64-linux-gnu/libasan.so.4+0x79779)}\\
   Shadow bytes around the buggy address:
0x0c0c7fff8040: 00 00 00 00 00 00 03 fa fa fa fa 60 00 00 00
     0x0CcC7ffff8050: 00 00 00 05 fa fa fa fa 00 00 00 00 00 00 00 5 fa 0x0CcC7fff8060: fa fa fa fa 00 00 00 00 00 04 fa fa fa fa fa
     0x0c0c7fff8070: 00 00 00 00 00 00 06 fa fa fa fa 00 00 00 00
   Shadow byte legend (one shadow byte represents 8 application bytes):
     Addressable: 00
Partially addressable: 01 02 03 04 05 06 07
     Heap left redzone:
     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: ==58179==ABORTING PoC poc.csv $\slash\hspace{-0.6em} \slash\hspace{-0.6em}$ brackeen added a commit that referenced this issue on Apr 29, 2021 ok_csv: Fix circular buffer reading (#13) 4713de3 brackeen commented on Apr 29, 2021 Owner Thanks, @AugJujube, this is now fixed prackeen closed this as completed on Apr 29, 2021 xxrz commented on Nov 15, 2021 Hi, @aug5t7 ~ ,May I get your contact e-mail? I would like to ask some questions about submitting CVE. I would be very grateful if you can take the time to reply to me! Author aug5t7 commented on Nov 17, 2021 • edited ▼ Hi, @aug\$t7 ~ ,May I get your contact e-mail? I would like to ask some questions about submitting CVE. I would be very grateful if you can take the time to reply to me! Contact me at au9st7@gmail.com . Assignees No one assigned Labels None yet Projects None yet Milestone No milestone Development No branches or pull requests 3 participants