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A heap-buffer-overflow in captoinfo.c:321:12

From: Anshunkang Zhou Subject: A heap-buffer-overflow in captoinfo.c:321:12 Date: Tue, 4 Aug 2020 21:26:04 +0800 Dear Developers, I found a heap-buffer-overflow in captoinfo.c:321:12, detailed system information and build configuration is as follows, the poc is in the mail attachment. ## System info Ubuntu X64, gcc (Ubuntu 5.5.0-12ubuntu1), ncurses (latest master label v6 2 20200801) CFLAGS="-g -fsanitize=address" LDFLAGS="-fsanitize=address" ./configure --enable-static ## Command line ./progs/tic -o /tmp @@ ## AddressSanitizer output ==18977==ERROR: AddressSanitizer: heap-buffer-overflow on address 0x621000002500 at pc 0x000000570883 bp 0x7ffd25a79bd0 sp 0x7ffd25a79bc8 READ of size 1 at 0x621000002500 thread T0 #0 0x570882 in _nc_captoinfo /home/seviezhou/ncurses/ncurses/../ncurses/./tinfo/captoinfo.c:321:12 #1 0x588e16 in _nc_parse_entry /home/seviezhou/ncurses/ncurses/../ncurses/./tinfo/parse_entry.c:548:13 #2 0x57c076 in _nc_read_entry_source/home/seviezhou/ncurses/ncurses/./ncurses//tinfo/comp_parse.c:226:6 #3 0x517a0d in main /home/seviezhou/ncurses/progs/./progs/tic.c:963:5 #4 0x7f424829183f in _ libc_start_main/build/glibc-e6zv40/glibc-2.23/csu/../csu/libc-start.c:291 #5 0x41a9f8 in _start (/home/seviezhou/ncurses/progs/tic+0x41a9f8) 0x621000002500 is located 0 bytes to the right of 4096-byte region [0x621000001500,0x621000002500) allocated by thread T0 here:

#0 0x4dec08 in __interceptor_malloc /home/seviezhou/llvm-6.0.0/projects/compiler-rt/lib/asan/asan_malloc_linux.cc:88

#1 0x580f32 in _nc_get_token /home/seviezhou/ncurses/ncurses/./inclocomp_scan.c:448:16 #2 0x586031 in nc parse entry /home/seviezhou/ncurses/ncurses/./ncurses/./tinfo/parse entry.c:265:18 #3 0x57c076 in _nc_read_entry_source/home/seviezhou/ncurses/ncurses/./ncurses/./tinfo/comp_parse.c:226:6 #4 0x517a0d in main /home/seviezhou/ncurses/progs/../progs/tic.c:963:5
#5 0x7f424829183f in __libc_start_main /build/glibc-e6zv40/glibc-2.23/csu/../csu/libc-start.c:291 SUMMARY: AddressSanitizer: heap-buffer-overflow /home/seviezhou/ncurses/ncurses/../ncurses/./tinfo/captoinfo.c:321:12 in nc captoinfo Shadow byte legend (one shadow byte represents 8 application bytes): Addressable: Addressable: 00
Partially addressable: 01 02 03 04 05 06 07
Heap left redzone: fa
Freed heap region: fd
Stack left redzone: f1 Stack mid redzone: Stack right redzone: f3 Stack after return: f5 Stack use after scope: f8 Global redzone: f6 Global init order Poisoned by user: Container overflow: fc Array cookie: ac Intra object redzone: fe ASan internal: Left alloca redzone: ca Right alloca redzone: cb ==18977==ABORTING

heap-overflow- nc captoinfo-captoinfo-321.zip Description: Zip archive

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