bug-ncurses

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An illegal memory access in neurses, tic

From: 郑晗

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Subject: An illegal memory access in neurses, tic
   Date: Sat, 16 Apr 2022 21:19:48 +0800 (GMT+08:00)
Dear developers,
I'm a security researcher and is now trying to test my new fuzzer. I've just
found an illegal memory access in the latest commit of ncurse, tic. Here are
the informations:
(1) environment
Ubuntu 20.04.3 LTS
acc 9.3.0
ncurse latest commit 74b10d4a30eec8feb66a4b94a72da65be0048447, tag v6 3 20220409
(2) step to reproduce:
export CFLAGS="-fsanitze=address -g"
export CXXFLAGS="-fsanitize=address -g"
./configure & & make -j$(nproc)
./prog/tic -o /dev/null $POC
(3) ASAN Report
"poc", line 2, col 812, terminal 'pse': slashes aren't allowed in names or
aliases
"poc", line 3, col 10, terminal 'pse': Illegal character - '~H'
"poc", line 3, col 10, terminal 'pse': unknown capability 'a'
"poc", line 3, col 11, terminal 'pse': Illegal character (expected alphanumeric
or @%& *!#) - '='
"poc", line 4, col 9, terminal 'pse': Illegal character (expected alphanumeric
or @%& *!#) - '&qt;'
"poc", line 4, col 12, terminal 'pse': Illegal character - '^J'
"poc", line 4, col 12, terminal 'pse': unknown capability 'H'
"poc", line 6, col 15, terminal 'pse': unknown capability '@E'
"poc", line 8, col 9, terminal 'pse': Illegal character (expected alphanumeric
or @%&*!#) - 'M-:'
"poc", line 9, col 6, terminal 'pse': unknown capability 'rlrm'
"poc", line 9, col 12, terminal 'pse': Missing separator after `ptlr', have r
"poc", line 9, col 14, terminal 'pse': Illegal character - '~@'
"poc", line 9, col 14, terminal 'pse': unknown capability 'l'
"poc", line 9, col 16, terminal 'pse': Illegal character (expected alphanumeric
or @%& *!#) - ':'
"poc", line 9, col 23, terminal 'pse': Illegal character (expected alphanumeric
or @%& *!#) - '~@'
"poc", line 1, col 2, terminal 'pse': cannot link alias erm, ♦cutl,r/term,ial.
"poc", line 1, col 2, terminal 'pse': alias ProT multiply defined.
"poc", line 13, col 9, terminal 'm': Legacy termcap allows only a trailing tc=
clause
"poc", line 13, col 13, terminal 'm': Illegal character - '^'
```

```
"poc", line 13, col 13, terminal 'm': wrong type used for string capability
"poc", line 13, col 15, terminal 'm': unknown capability 'M'
"poc", line 13, col 17, terminal 'm': unknown capability 'I'
"poc", line 13, col 19, terminal 'm': Illegal character - '^J'
"poc", line 13, col 19, terminal 'm': unknown capability 'n'
"poc", line 14, col 23, terminal 'm': Missing separator
"poc", line 15, col 19, terminal 'm': Illegal character - '%'
"poc", line 15, col 19, terminal 'm': unknown capability 'k'
"poc", line 15, col 21, terminal 'm': Illegal character - '%'
"poc", line 15, col 21, terminal 'm': unknown capability 'r'
"poc", line 15, col 22, terminal 'm': Illegal character (expected alphanumeric
or @%&*!#) - '^?'
"poc", line 17, col 9, terminal 'm': Illegal character (expected alphanumeric
or @%& *!#) - '>'
"poc", line 19, col 13, terminal 'm': Illegal character - '^'
"poc", line 19, col 13, terminal 'm': wrong type used for string capability
"poc", line 19, col 15, terminal 'm': unknown capability 'M'
"poc", line 19, col 17, terminal 'm': unknown capability
"poc", line 19, col 19, terminal 'm': Illegal character - '^J'
"poc", line 19, col 19, terminal 'm': unknown capability 'p'
"poc", line 21, col 15, terminal 'm': unknown capability 'Cdc'
"poc", line 22, col 9, terminal 'm': Illegal character (expected alphanumeric
or @%& *!#) - '['
"poc", line 22, col 18, terminal 'm': Illegal character - '^J'
"poc", line 22, col 18, terminal 'm': wrong type used for boolean capability
"poc", line 24, col 12, terminal 'm': Illegal character - '^?'
"poc", line 24, col 12, terminal 'm': wrong type used for string capability 'r1'
"poc", line 24, col 13, terminal 'm': Illegal character (expected alphanumeric
or @%& *!#) - '^'
"poc", line 26, col 23, terminal 'm': Illegal character (expected alphanumeric
or @%&*!#) - '^'
"poc", line 27, col 9, terminal 'm': Illegal character (expected alphanumeric
or @%&*!#) - '/'
"poc", line 31, col 0, terminal 'm': Missing separator
"poc", line 31, col 1, terminal 'm': Illegal character (expected alphanumeric
or @%&*!#) - '='
AddressSanitizer: DEADLYSIGNAL
______
==3827912==ERROR: AddressSanitizer: SEGV on unknown address 0x615fffffdc51 (pc
0x557e8341653e bp 0x7ffda95d3a70 sp 0x7ffda95d3a40 T0)
==3827912==The signal is caused by a READ memory access.
    #0 0x557e8341653d in convert strings ../ncurses/./tinfo/read entry.c:164
    #1 0x557e834178a3 in nc read termtype ../ncurses/./tinfo/read entry.c:370
    #2 0x557e83418cc0 in nc read file entry ../ncurses/./tinfo/read entry.c:566
    #3 0x557e834199e4 in nc read tic entry ../ncurses/./tinfo/read entry.c:820
    #4 0x557e83419c8f in nc read entry ../ncurses/./tinfo/read entry.c:864
    #5 0x557e83424781 in nc resolve uses2 ../ncurses/./tinfo/comp parse.c:473
    #6 0x557e833df5c1 in main ../progs/tic.c:972
    #7 0x7f05db7a20b2 in libc start main
(/lib/x86 64-linux-gnu/libc.so.6+0x270b2)
    #8 0x557e833dbe0d in start
(/home/hzheng/real-validate/ncurses-snapshots/progs/tic+0x37e0d)
AddressSanitizer can not provide additional info.
SUMMARY: AddressSanitizer: SEGV ../ncurses/./tinfo/read entry.c:164 in
convert strings
==3827912==ABORTING
(4) POC
as shown in the attachment
(5) Credit
```



Description: Zip compressed data

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郑晗

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