LKML.ORG Messages in this thread

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Sun, 22 Mar 2020 23:34:01 -0400 Date

Subject UBSAN: Undefined behaviour in drivers/tty/vt/keyboard.c

We report a bug (in linux-5.5.11) found by FuzzUSB (modified version of syzkaller)

Seems the variable "npadch" has a very large value (i.e., 333333333) as a result of multiple executions of the function "k\_ascii" (keyboard.c:888) while the variable "base" has 10. So their multiplication at line 888 in "k\_ascii" will become larger than the max of type int, causing such an integer overflow.

I believe this can be solved by checking for overflow ahead of operations e.g., using check\_mul\_overflow().

kernel config: https://kt0755.github.io/etc/config\_v5.5.11

UBSAN: Undefined behaviour in drivers/tty/vt/keyboard.c:888:19 Call Trace:

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