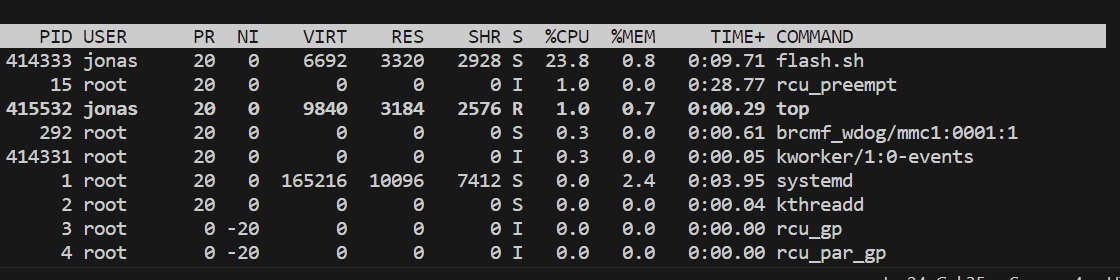
Part 1:

Compare response time and CPU load:

1. Sysfs from shell script

Response Time: 5.46 ms

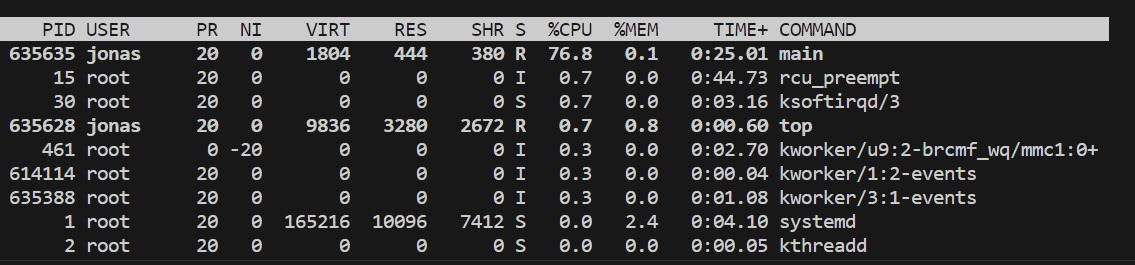
CPU Load: 23.8 %



1. Sysfs from C++ application polling pin status using a timed read()

Response Time: 165 µs

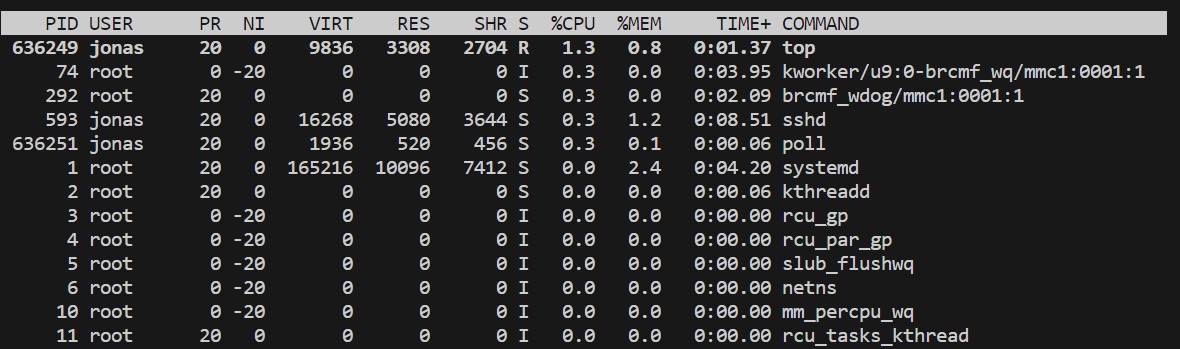
CPU Load: 76.8 %



1. Sysfs from C++ application using poll() function provided by kernel

Response Time: 492 µs

CPU Load: 0.3 %



1. Kernel modul using interrupts

Response Time:

CPU Load:

Questions:

* Which mechanism would suffice for counting encoder pulses?
* What is the associated CPU load (reported by top)?
* Do the results change when the CPU is fully loaded (by some other process)?

Interrupt should be fastest one

#

Part 2:

Keep kernel modul so einfach wie möglich, weil du willst das nicht debuggen

Kernel soll nur counter zählen

Alle Berechnungen sollen in userspace