Boot Time Measurement User Manual

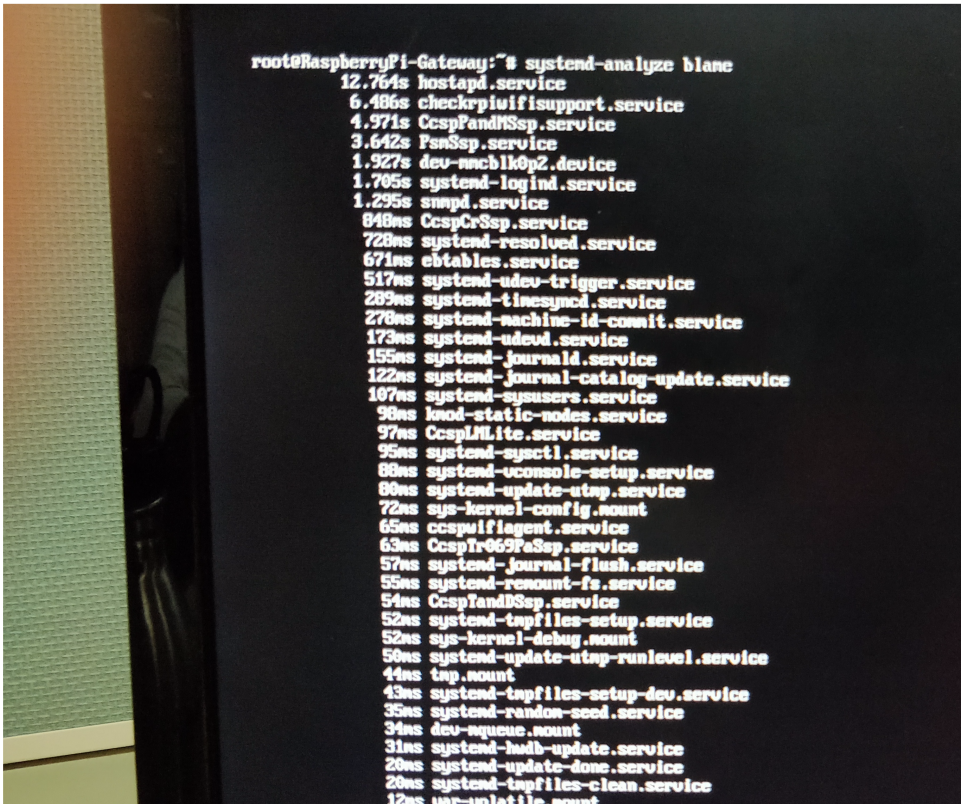
List of commands to validate the Boot Time data

- [ ] **systemd-analyze**

```
# systemd-analyze

Startup finished in 1.190s (kernel) + 34.874s (userspace) = 36.065s
```

- [ ] **systemd-analyze blame**
  - This command prints a list of all running units, ordered by the time they took to initialize.

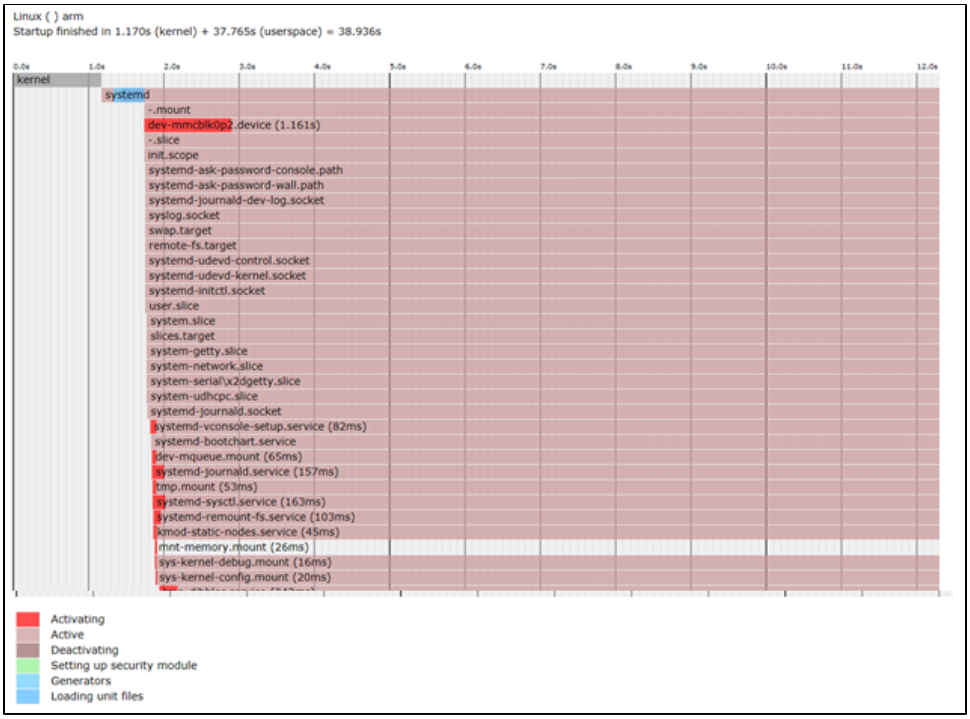


- [ ] **systemd-analyze critical-chain**

  - This command prints a tree of the time-critical chain of units. The time after the unit is active or started is printed after the "@" character. The time the unit takes to start is printed after the "+" character.

- [ ] **systemd-analyze plot > plot.svg**

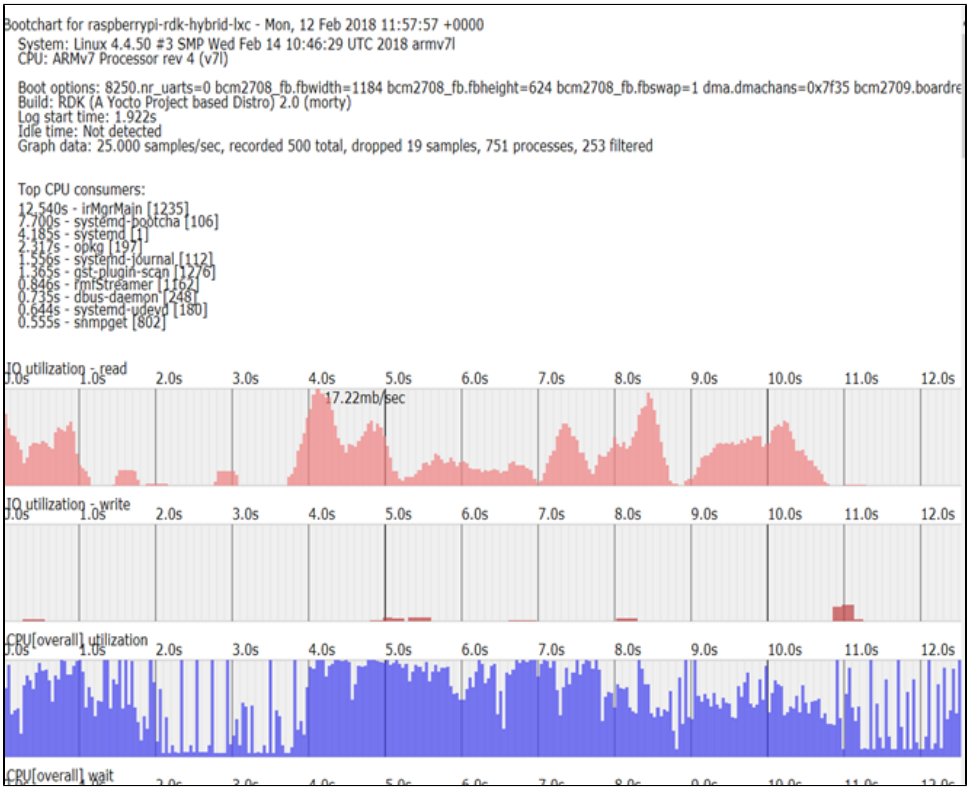
  - This command prints an SVG graphic detailing which system services have been started at what time, highlighting the time they spent on initialization.

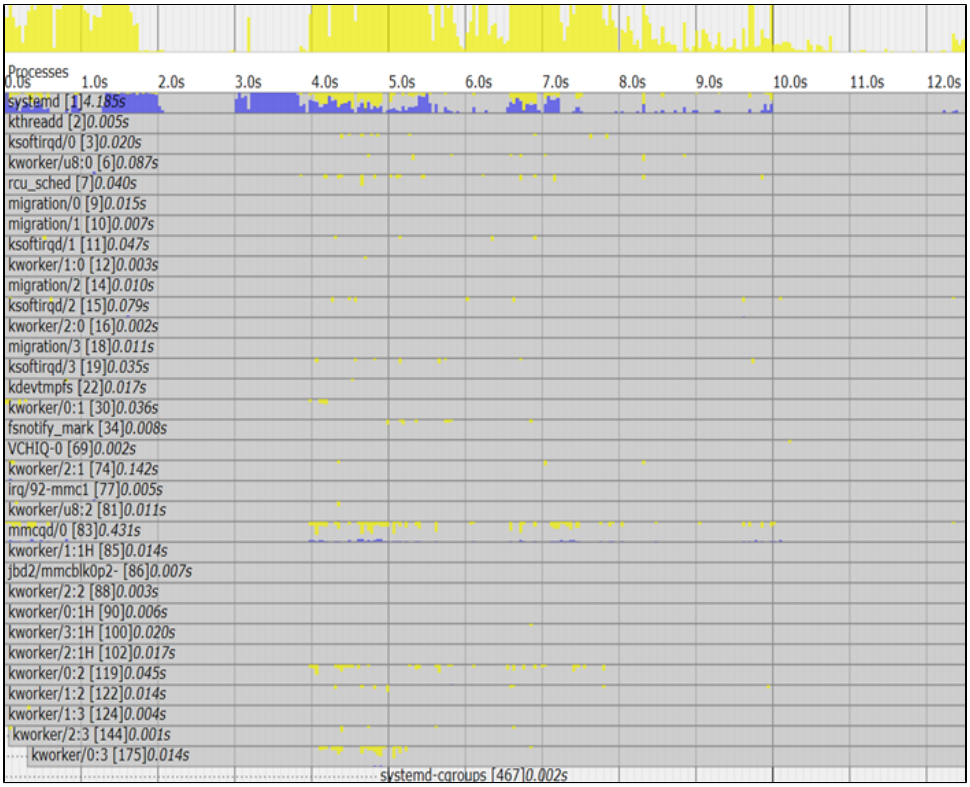


- [ ] **systemd-bootchart**
By default,systemd-bootchart.service is disabled.In order to start the process,execute the following command

  - systemctl enable systemd-bootchart
  - systemctl start systemd-bootchart

  Systemd-bootchart command collects the CPU utilization, disk load, memory usage, as well as per-process information from a running system. Collected results are output as an SVG graph at /run/log. Systemd-bootchart is available only in morty version (yocto 2.2)




Processes
0.0s
1.0s
2.0s
3.0s
4.0s
5.0s
6.0s
7.0s
8.0s
9.0s
10.0s
11.0s
12.0s
systemd [1]4.185s
kthreadd [2]0.005s
ksoftirqd/0 [3]0.020s
kworker/u8:0 [6]0.087s
rcu_sched [7]0.040s
migration/0 [9]0.015s
migration/1 [10]0.007s
ksoftirqd/1 [11]0.047s
kworker/1:0 [12]0.003s
migration/2 [14]0.010s
ksoftirqd/2 [15]0.079s
kworker/2:0 [16]0.002s
migration/3 [18]0.011s
ksoftirqd/3 [19]0.035s
kdevtmpfs [22]0.017s
kworker/0:1 [30]0.036s
fsnotify_mark [34]0.008s
VCHIQ-0 [69]0.002s
kworker/2:1 [74]0.142s
irq/92-mmc1 [77]0.005s
kworker/u8:2 [81]0.011s
mmcqd/0 [83]0.431s
kworker/1:1H [85]0.014s
jbd2/mmcblk0p2- [86]0.007s
kworker/2:2 [88]0.003s
kworker/0:1H [90]0.006s
kworker/3:1H [100]0.020s
kworker/2:1H [102]0.017s
kworker/0:2 [119]0.045s
kworker/1:2 [122]0.014s
kworker/1:3 [124]0.004s
kworker/2:3 [144]0.001s
kworker/0:3 [175]0.014s
systemd-cgroups [467]0.002s