



CI-Tron for kernel development

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CI-Tron

- An automated CI system
- Initially created by Martin Roukala, né Peres
- Used by Mesa for the CI and (lately) by PostmarketOS

CI-Tron traditional usage

- As a part of the established CI system, submitting jobs from GitLab
- Or, using the published artifacts to boot the system
 - `executorctl -e http://192.168.1.23:80/ run -i lumag-qcom-a200-1
executor/server/src/valve_gfx_ci/executor/server/job_templates/interactive.yml.j2`
- The kernel, initramfs and DTB are specified in the job description via public URLs
- Put locally built kernel isn't public...
- Attach artifacts from the local machine
 - `executorctl -e http://192.168.1.23:80/ run -i lumag-qcom-a200-1 test2.yml.j2 -f kernel:linux-arm -f
initramfs:initramfs.linux_arm.cpio.xz -f dtb:imx53-qsb-hdmi.dtb`

CI-Tron kernel development

```
version: 1
target:
  id: "{{ machine_id }}"
timeouts:
  first_console_activity:
    minutes: 2
    retries: 0
  overall:
    hours: 20
    retries: 0
console_patterns:
  session_end:
    regex: "^. *It's now safe to turn off your computer\r$"
  job_success:
    regex: "^. *Execution is over, pipeline status: 0\r$"
deployment:
  start:
    kernel:
      cmdline:
        - console={{ local_tty_device }},115200 SALAD.machine_id={{ machine_id }}
        - initcall_blacklist=imx_tve_driver_init
      attached_artifact:
        kernel
    initramfs:
      attached_artifact:
        initramfs
    dtb:
      attached_artifact:
        dtb
```

Thank you

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