

## 8th Meeting of the seL4 Technical Steering Committee

Thu, 25 Jul 2024, 16:00-17:25 AEST, by Zoom

### Attendance

TSC members present:

- Matthew Brecknell (MB)
- Gernot Heiser (GH)
- Gerwin Klein (GK)
- Rafal Kolanski (RK)
- Ihor Kuz (IK)
- Corey Lewis (CL)
- Yanyan Shen (YY)

TSC members absent:

- Kevin Elphinstone (KE)
- Anna Lyons (AL)
- June Andronick (JA)
- Kent McLeod (KM)

Reviewers/Committers present:

- Indan Zupancic
- Nick Spinale
- Ivan Velkovic
- Alwin Joshy

### Minutes

#### 0. Welcome and roll call

#### 1. Action items from last meeting

- **GK**: write guidelines for what should be considered a bug in Jira/issues
  - Status: not yet done
- **IH/GK**: discourse + mailing list sync
  - Status: not yet done
- **GK+CL**: adapt RFC process to GitHub and implement
  - Status: **done**
- **GH**: update RFC-16
  - Status: some progress, mainly discussion. Potentially split into two RFCs (global + per process).
- **Indan**: update implementation prototype for RFC-14
  - Status: not yet done

#### 2. Style and CI

- should we mandate `rustfmt` in style guide and CI? (code formatting, now that there is more Rust code)
  - **RESOLVED (unanimously):** add requirement for `rustfmt` to style guide and CI
- should we mandate Rust `clippy` in CI? (Rust linter)
  - **RESOLVED (unanimously):** add requirement for `clippy` to style guide and CI; if some lints turn out to be too annoying, tweak later.
- should we mandate or allow a Python linter in CI? Which one? (Options: `ruff`, `mypy`, `flake8`, `pylint`)
  - **RESOLVED (unanimously):** add `mypy` to CI, Gerwin volunteers to check current failure levels
- bump version of `cmake-format` (will break current formatting) to reduce python dependency hell
  - **RESOLVED (unanimously):** bump version, seek volunteer (Matt?) for global update, because there is not much current work in progress on `cmake` files.
- should we bump the min version of `cmake` and when? (E.g. for EOL of Ubuntu 20.04)
  - **RESOLVED (unanimously):** can bump min version to the minimum of the `cmake` versions on current Debian stable and Ubuntu LTS. We do not consider paid versions for Ubuntu LTS, i.e. next bump point for it would be next year (to Ubuntu 22.04LTS).

### 3. RFCs:

- discuss new FPU RFC: <https://github.com/seL4/rfcs/pull/26>
  - **RESOLVED (unanimously, one abstain):** RFC accepted without changes
- hear about progress on PMU, budget limit, device driver framework
  - PMU: some progress, see action item above
  - device driver framework: needs more time to mature for additional driver classes, postponed to later meeting
  - budget limit threshold: some discussion, agreed to wait for new implementation
- make decision on old RFC-4: <https://github.com/seL4/rfcs/pull/12>
  - **RESOLVED (unanimously):** RFC rejected in line with discussion on the RFC issue (BYO boot loader is already possible, RISC-V mostly on OpenSBI now, there should be no need to integrate into current `cmake/elfloader` build system).
- any feedback on GitHub RFC implementation
  - make overview on approved/open/in-progress RFCs more visible (too easy to overlook)

Meeting closed: 17:25 AEST

### Summary of actions

- **GK:** write guidelines for what should be considered a bug in Jira/issues
- **IH/GK:** discourse + mailing list sync
- **GH:** update [RFC-16](#)
- **Indan:** update implementation prototype for [RFC-14](#)
- **GK:** add `rustfmt` + `clippy` requirements to style guide; check CI
- **GK:** add `mypy` to CI
- **MB+GK:** bump `cmake-format` version and check global update options

### Acronyms

**TSC** Technical Steering Committee of the seL4 Foundation

Minutes prepared by GK on 2024-07-25