

Date: 2021/03/30

Task Group: Fast Interrupts

Chair: Krste Asanovic

Co-Chair: Kevin Chen

Number of Attendees: ~6

Current issues on github: <https://github.com/riscv/riscv-fast-interrupt/issues>

Previous meeting minutes: <https://github.com/riscv/riscv-fast-interrupt/tree/master/minutes>

**Discussed administrative and planning since Krste could not attend.**

There is a new riscv admin area for riscv-fast-interrupt

<https://github.com/riscv/groups/tree/main/Fast-Interrupts>

- README.md - a description of the group with a link to its code, documentation, and/or tests repo, if there is one, as well as the group's roadmap
- CHARTER.md - the preliminary or approved charter - see the Group policy for details
- MAINTAINERS.md - the chair, vice-chair, and any other maintainers for the group's repo(s)
- MINUTES - a subfolder with date-identified minutes from regular meetings

Kevin will send the Charter. Discussion to only put link in minutes at Fast-Interrupts admin area pointing to <https://github.com/riscv/riscv-fast-interrupt/tree/master/minutes>

Dan and Kevin will update the information at the newly created admin area.

Discussed the Current Fast Interrupt status. ([status \(specs, etc.\) - Google Sheets](#)) shows a goal of freeze Q3 and vote Q4 2021.

Discussed Definition of Done requirements:

SAIL model required

- Formal model. start work?

Architectural tests

- Current framework: load a test (binary), start a hart, hart runs, hart signals finished, extract results from memory to verify it ran correctly/check signature.
- how to handle async events with sail, implementations with varying behavior.
- Coverage discussion
- What can be leveraged from work teams have already done.

## QEMU/SPIKE

- Quick system simulator support.

36 open issues – Will try to separate issues into categories, possibly separate into extensions or future features to pare down issues to be resolved before freeze.

Hardware vectoring extension

- #26, 46, 75, 87, 105, 111

Spec updates needed to resolve these issues:

- #45, 47, 49, 79, 80, 82, 91

More discussion needed:

- #50, 96, 98, 99, 100, 101, 102, 103, 106, 117, 120, 125

Wait on method of delegation of features to lower priv modes

- #45, 81, 82, 92

Close?

- #77

Keep open as reminder/future work:

- 88, 97, 108

More research:

- 107, 109