

**NOTE: updated zoom info for next meeting and beyond.**

**Meeting link:** <https://zoom.us/j/95666422067>

**Passcode:** 174425

**Join link:** <https://zoom.us/j/95666422067?pwd=aHM1ZEJDcFJ3cGE0UWdTRmtaUXhsQT09>

**Date:** 2023/04/01

**Task Group:** Fast Interrupts

**Chair:** Dan Smathers

**Co-Chair:** Jean-Baptiste Brelot

**Number of Attendees:** 4

**Meetings Disclaimers Video :**

[https://drive.google.com/file/d/1y\\_XWJus8M5ZwSQ2cvEOzCjlOmsmXOnN4/view](https://drive.google.com/file/d/1y_XWJus8M5ZwSQ2cvEOzCjlOmsmXOnN4/view)

**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>

**Fast Interrupt DoD (Definition of Done) Status:**

<https://wiki.riscv.org/display/HOME/Fast+Interrupts+TG>

**CLIC status:**

[\[RVS-1017\] Fast Interrupts \(CLIC\) - RISC-V Jira \(riscv.org\)](#)

**Meeting minutes:**

ARC review starting. Krste will be reading through the whole spec. Expect it may take a couple weeks.

CLIC task group at June RISC-V Summit in Europe – Jean-Baptiste will be there and we received a 30 minute slot on the Monday task group day. We hope that CLIC will be nearing the ratification stage, so this might be a useful time to discuss Ecosystem phase and next steps after CLIC.

**Github updates since last minutes:**

**Specification updates since last minutes:**

**Open issue status:**

**Issues that can be closed?**

**Need spec updates:**

**Awaiting feedback from Architecture Committee:**

Issue #378 – Require immediate evaluation of clicintie and clicintip

Issue #349 reopened – moving memory mapped CLIC registers to indirect CSR access

**Issues need to be worked in frozen stage:**

#107 - heritage of features. keep researching and adding references to bibliography.

#376 – How should non-normative text be specified in the clic spec (appendix/in-line commentary?) For chapters 11 – 17.

**Issues punted for rev1, keep open for future enhancements/ecosystem development:**

#92/Pull #281 – hypervisor compatibility. still punted for rev1?

#99 – horizontal interrupt window. punted for rev1

#101 - xnxti to trigger on equal level. punted for rev1

#102 - preemptible interrupt handler code (for section 7.2)

#106 – allow level change. Punted for rev1

#108 – pushint/popint? defer to broader discussion on providing hardware stacking of interrupt contexts. Punted for rev1

#192 – allow mix of CLIC/CLINT at different priv modes punted for rev1

#248 – CLIC hypervisor mode (related to #92).

#329 - support for hw register save.

#348 – discuss location of inhv for future if enabling CLIC per mode. xcause still ok?

**Ecosystem development phase**

#185 – SAIL model implementation of CLIC – Pull created. Ecosystem phase of getting accepted

#186 – CLIC architecture tests – Pull created. Ecosystem phase of getting accepted

#187 – QEMU CLIC implementation update

#242 – SPIKE model implementation of CLIC