

Meeting minutes are in the speaker notes for the relevant slide





Attendees: see screenshot on the agenda slide

eTrace Packet Encapsulation

- Acting chair: Iain Robertson, acting vice-chair: Paul Donahue
- Reflector: tech-e-trace-encap@lists.riscv.org
- githubs: https://github.com/riscv-non-isa/e-trace-encap, https://github.com/riscv-non-isa/e-trace-encap
- DTPM SIG and E-Trace-Encap meetings will co-exist
- Adoc spec created: https://github.com/riscv-non-isa/e-trace-encap/blob/main/e-trace-encap.pdf
- Working final refinements to spec (thanks Michael for feedback).
- Call for chair/vice chair in progress
- Ratification plan started.



- E-trace packet encapsulation
 - Spec created, in refinement
 - Ratification plan WIP

Maintenance (E-Trace)

- Clarification on push/pop support for data trace
 - Examples added to section 4.3 and pull request made
- Proposal to change description of tail call itypes to 'jumps'
 - Beeman generated pull request
- Typo spotted in data trace packets: index_width_p should be Irid_width_p
 - lain generated pull request
- Update control section to reference common control document
 - lain generated pull request, and requested feedback.
- Once PRs reviewed internally, SoC HC will review/approve pull requests to include in 2.0.1 spec.
 - Will determine at that time whether to include common control updates, or whether to defer to a follow-on revision.



- E-trace spec maintenance
 - Several PRs, to be integrated in v2.0.1
 - Some question about version name: Control section may be more substantial change. 2.1.0 or 2.0.1?

Competitive Analysis

- Template spreadsheet:
 - Located in for risc-v members/Workgroups/Debug Trace Performance Monitoring RVI Google Drive
 - https://docs.google.com/spreadsheets/d/110N-E-hTjFj3jkPrjsLitso4hACDajayNwh35F4KUfs/edit#gid=0
- Review secure debug proposal from Runtime Integrity SIG
 - Slides from Joe: RISCV Debug Security Summit Final.pdf
- Still need input from others with knowledge of other architectures



- Secure Debug discussion
 - Security model diagram doesn't include H extension, for simplicity
 - Problem that debug mode can write PMPs, e.g.
 - Need a way to debug bootloader firmware post-production, self-hosted can run in this environment
 - Want to protect firmware secrets from OS debugger, minimize TCB
 - Reviewed ARM secure debug interface, including new v9 additions (realm and root debug)
 - Does RISC-V allow multi-user debug? Multiple sessions at once?
 Some disagreement. Could have multiple domains.
 - Authentication module in ARM is undefined, could be a DM-like structure, or even software (RoT)
 - SiFive uses WorldGuard
 - ARM accesses in debug state behave like non-debug, depend on priv mode for access
 - Sent proposal to debug list, how to progress?
 - Should DTPM spin off a new TG, or handle under Smmtt?
 - Smmtt only covers supervisor needs, and is setup late
 - Concern about overhead of forming a TG, and approval process

Al: Joe Xie will draft a proposed charter for a new TG that DTPM will propose to SoC HC. Refinements to the draft charter and other details to be worked out via the mailing list.

Future Meetings / AOB

- 2nd Wednesday of each month
- AOB



