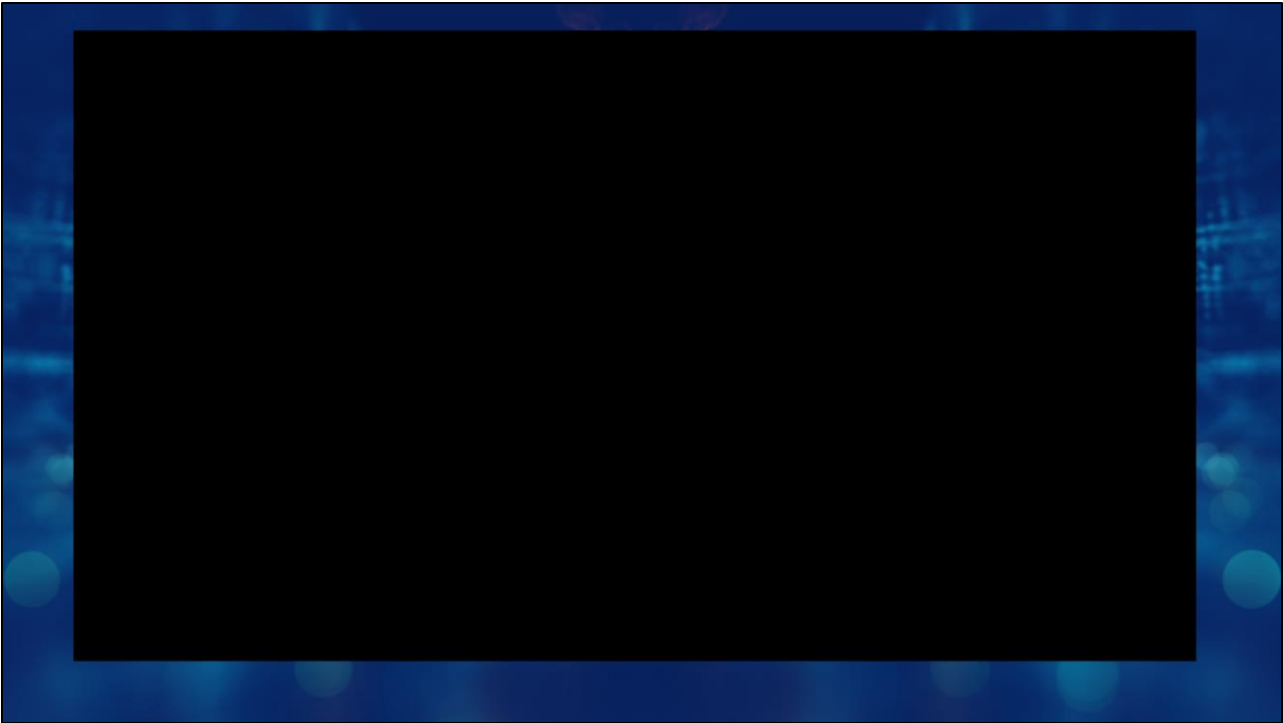




DTPM SIG E-Trace-Encap TG

09-Jan-2024

Meeting minutes are in the speaker notes for the relevant slide



Agenda

- Disclosures
- E-Trace packet encapsulation
- Maintenance
- Competitive Analysis
 - Priorities for this year?
- AOB

PD	Paul Donahue (Ventana) (Me)	 
IR	Iain Robertson (Siemens)	 
RC	Robert Chyla	 
AY	Alan Young	 
BS	Beeman Strong (Rivos)	 
IC	Isaac Chute (RISC-V)	 



Attendees: see screenshot on the agenda slide

E-Trace Packet Encapsulation

- Chair: Iain Robertson, Vice-chair: Paul Donahue
- Reflector: tech-e-trace-encap@lists.riscv.org
- githubs: <https://github.com/riscv-admin/e-trace-encap>, <https://github.com/riscv-non-isa/e-trace-encap>
- DTPM SIG and E-Trace-Encap meetings will co-exist
- Adoc spec: <https://github.com/riscv-non-isa/e-trace-encap/blob/main/e-trace-encap.pdf>
- Ratification plan approved by Tech Chairs Dec 20th 2023
- Spec title and intro revised following feedback from Robert, Jay & Beeman.
- PoC started (planning architecture – no code written yet)



- Discussion of recent encapsulation spec changes. Title is now clearer and the intro talks about "unformatted" data instead of specifically trace data. And it says that it's not appropriate for formatted data like N-Trace.
- Internal review is ongoing (with an additional week due to the holidays). If there's no more negative feedback by early next week then we'll ask ARC to put it in the queue.

Maintenance (E-Trace)

- Release 2.0.1 completed. Just waiting on update to <https://wiki.riscv.org/display/HOME/RISC-V+Technical+Specifications> before announcing.
- Includes:
 - 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 *lrid_width_p*
 - Iain generated pull request
 - Update control section to reference common control document
 - Feedback incorporated and all issues resolved. A couple of clarifications for Common Control raised
 - Update to decoder to cover trap return corner-case



- Old versions of ratified specs should be available in perpetuity. For example, someone can still implement E-Trace version 1.0.

Competitive/Gap Analysis

- Spreadsheet:
 - Located in *for risc-v members/Workgroups/Debug Trace Performance Monitoring* RVI Google Drive
 - <https://docs.google.com/spreadsheets/d/1l0N-E-hTjFj3jkPrjsLitso4hACDajayNwh35F4KUfs/edit#gid=0>
- Priority activities for this year?
 - Self-hosted trace: Beeman to provide more details
 - Debug beyond ratification?
 - What else?



- Beeman to present on self-hosted trace at next meeting
- Debug ARC review is complete but the freeze milestone hasn't been officially announced yet. Some POC work remains before it can be ratified.
- There's a talk tomorrow about having a standard simulation trace format (not hardware trace).

Future Meetings / AOB

- From Jan, meetings will be 30mins at 10am Pacific every 4th Tuesday, starting Jan 9th
- AOB



Thank You

