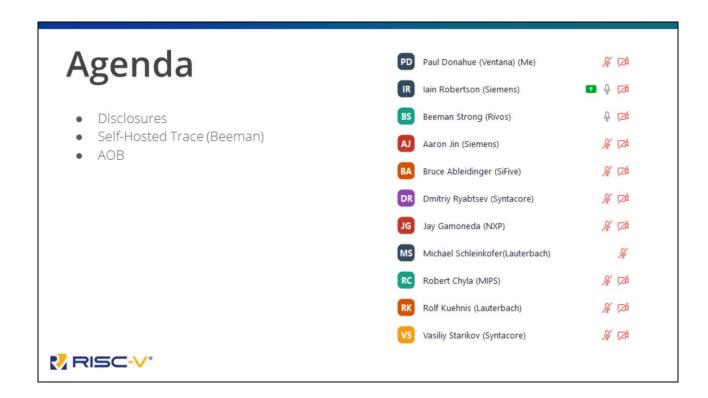


Meeting minutes are in the speaker notes for the relevant slide





Attendees: see screenshot on the agenda slide

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-hTjFl3ikPrlsLitso4hACDalayNwh35F4KUfs/edit#gid=0
- Priority activities for this year?
 - Self-hosted trace: Beeman led discussion using these slides
 - Some recent discussion related to cycle accurate trace
 - Debug beyond ratification?
 - What else?



Self-hosted trace

- conversation starter, not a final proposal
- Physical memory can be subject to PMP
- Trace can use a small dedicated memory buffer instead of virtual or physical memory
- Trace writes might behave as if they are in some mode that's different than the current mode or the mode being traced. Kind of like MPRV.
- Trace writes can be buffered and occasionally write large chunks rather than each packet as it is produced.
- Pulling lines into the cache is bad for debugability because it pollutes the cache

- Cacheability may not be the issue. You can have a no write allocate policy on cacheable memory and still not pollute the cache.
- Challenge of a fixed-size special RAM is that context switching trace has very high overhead.
- Nested virtualization should be considered
- timestamp needs to take htimedelta into account for guests
- We're a SIG so we need to decide if this is important but we don't need to come up with the final solution. A TG would do that.
- Sounds good but the CSR part might be problematic and the first thing to tackle.

Future Meetings / AOB

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



