



Technical Newsletter

2024-08-23

Volume: 18

News from TSC, ARC, ICs, HCs, SIGs and TGs

Technical Steering Committee (TSC)

A table detailing all extensions that are part of RVA23 and RVB23 is available [here](#) as reference.

Architecture Review Committee (ARC)

The latest ARC meeting minutes, from the meeting held on August 06, 2024, are available [here](#). During that meeting ARC approved the Freezing of the following specifications:

- [RVV Intrinsics](#)
- [Semihosting](#)

Tech News

Extensions

Recently Approved Plans

The following development plans have been approved by the Technical Chairs:

- IO Mapping Table. [Details](#)
- Supervisor Binary Interface 3.0. [Details](#)
- Platform Management Interface - RPMI. [Details](#)

Under Public Review

The following specification is currently under public review:

- RISC-V N-Trace, Trace Control Interface and Trace Connectors. [Details](#)

Public Review Recently Completed

The following specification has recently completed public review:

- Control Transfer Records (CTR). [Details](#)

Recently Ratified

- [Double Trap](#), led by Ved Shanbhogue under the governance of the Privileged Spec (IC) Committee. The specification can be found [here](#).

Recently Approved Waivers

The Technical Chairs and Vice-chairs approved the waiver for Priv 1.13. The details can be found [here](#). The OpaVote can be found [here](#).

Active Votes

TSC

- Specification Freeze Approvals:
 - [RVA23](#). End date is September 4, 2024. [OpaVote](#).
 - [RVB23](#). End date is September 4, 2024. [OpaVote](#).

- Task Group Formation Approvals:

[Performance Events Sampling](#). End date is August 29, 2024. [OpaVote](#).

[Memory Tagging](#). End date is August 29, 2024. [OpaVote](#).

[Composable Custom Extensions](#). End date is August 29, 2024. [OpaVote](#).

Dev Partners

With the participation of JIA Wei from the RISC-V Development Partner, PLCT, the Zimop/Zcmop extensions ("May Be Ops") has successfully merged gcc patches upstream: [commit](#).

Dev Labs

The [PLCT](#) (Programming Language and Compiler Technology) Lab at the Institute of Software, Chinese Academy of Sciences (ISCAS) has officially met the criteria of the RISC-V Ecosystem Labs Program and is now the second partner to be fully certified and authorized to display the program's logo.

As a founding member of the RISC-V Labs program, PLCT has provided public sandboxes and CI infrastructure for several years through their [RISC-V Lab at PLCT](#) for several years.

For more details on available cloud resources or to learn about becoming a Lab Partner, visit the [RISC-V Labs and Lab Partner](#) pages.

Events

RISC-V Tech Sessions

The next RISC-V Tech Sessions entitled "ConvBench: Benchmark for 2D Convolution Primitive Evaluation" will be held on August 29, 2024. The session will be held at 7:00 AM PDT. Register [here](#).

Upcoming Events

- [Hot Chips 2024](#). August 25-27, 2024. Memorial Auditorium, Stanford University, Stanford, California, USA.
- [Open Source Summit Europe](#). September 16-18, 2024, Vienna, Austria.
- [RISC-V Summit North America](#). October 22-23, 2024, Santa Clara, California, USA.

Resources

- [Official RISC-V Website](#)
- [RISC-V YouTube Channel](#)
- [Meeting Disclosure Videos Available](#)
- [One-stop-shop for Technical Resources](#)
- [Active ICs, HCs, SIGs and TGs](#)
- [Extensions Under Development](#)
- [Software Ecosystem Dashboard](#)
- [Technical Meetings Calendar Adjusted to Your Local Time Zone](#)
- [Etherpad](#)

Glossary

- **TSC:** Technical Steering Committee
- **ARC:** Architectural Review Committee
- **IC:** ISA Committee
- **HC:** Horizontal Committee
- **SIG:** Special Interest Group
- **TG:** Task Group

Newsletter Contributions

To submit a topic for the Technical Newsletter, [click here](#). Be sure to carefully read the submission guidelines!

Contact Information

For any queries, visit help.riscv.org or email us at help@riscv.org.



