

Technical Newsletter

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2024

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2023

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- **Sep 29th, Volume 1** ([riscv-tech-newsletter-20230929.pdf](#)) | [GitHub Release](#)
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Submission Guideline

Contributions to our twice-monthly tech newsletter are strongly encouraged by chairs and vice-chairs of HCs, ICs, TGs, SIGs, and RISC-V staff.

To submit a new entry for the newsletter, ensure you are part of the "[riscv-members](#)" at GitHub. You can easily verify if you are part of that by clicking [here](#) (select **GitHub**, type your **GitHub user** and press **Search**).

Audience & Writing

Considering our diverse audience, which includes both technical and non-technical individuals, all content should be concisely explained and, if appropriate, include a reference to where more information can be found. This ensures that the newsletter remains both accessible and valuable to all.

In other words, submissions should be crafted in a clear and concise manner, including links to external sources for additional context or in-depth understanding.

A 300-character limit submission is recommended

Example Submissions for All

- *For the transactional security extension, two alternative proposals were introduced, one of which is closer to existing industry architectures while the other has a more novel architecture but might offer better future scalability. See lively discussion of the pros and cons of the two alternatives on the email thread here: ...*
- *Agreement was reached on the final set of extensions to include in the matrix crypto extension ratification package. See updated spec at GitHub:...*
- *The rotate-up instruction was removed from the draft nibble-manipulation extension as it was found to almost entirely duplicate existing functionality, and the few cases that were novel were not deemed important enough to justify inclusion. Thread at:...*
- *A backward-incompatible change to machine-mode register misa was proposed for priv 1.23. The change is considered unlikely to affect implementations or software but discussion is continuing at: thread...*

Example Submissions for Specification Owners

- *Work has started on the post quantum cryptography (PQC) extensions specification. Join us in PQC Task Group ([link](#)) if you'd like to participate.*
- *The post quantum cryptography extensions specification has been posted for internal review on September 15, 2023 to the tech-announce mailing list. The review ends on September 29, 2023. See the announcement post ([link](#)) for details on how to participate in the review or join us in the PQC Task Group ([link](#)).*
- *The Post Quantum Cryptography specification has completed Architecture Review, been Frozen, and was posted for Public Review review on January 7, 2024 to the tech-announce mailing list. The 30-day review ends on February 6, 2023. See the announcement post ([link](#)) for details on how to participate in the review or join us in the PQC Task Group ([link](#)).*
- *The Post Quantum Cryptography specification has been approved by all Committee Chairs, the TSC, and the RISC-V Board of Directors on June 3, 2024. Thank you to the PQC Task Group, the Security Horizontal Committee, the Unprivileged ISA Committee, and to all who contributed.*

Please note that the RISC-V Staff will be ensuring that following events are submitted and included, space permitting:

- Task Group approval by the TSC

- Call for Candidates for all positions
- SAIL feature submission and acceptance
- Development Partner, Development Boards, and Labs accomplishments

Submissions

Submit your entries during the open-submission phase in the first week of each bi-weekly cycle. Ensure your contributions align with the twice-monthly publication schedule of the newsletter.

Topics

Topics can vary widely, from key and/or contentious technical discussions and conclusions, to major specification releases, hot topics, notable updates, notable upcoming discussion topics, and AR reviews. These serve to keep our community updated on a range of relevant issues. These should not include mundane status updates or minutia.

The technical topics will be grouped by the relevant HC/IC committee to help readers find relevant material.

Moderation

The entries will be moderated by the appropriate HC/IC committee chairs and RISC-V staff.