

Antitrust Policy Notice

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If you have questions about these matters, please contact your company counsel.



RISC-V International

RISC-V is a free and open ISA enabling a new era of processor innovation through open standard collaboration. Born in academia and research, RISC-V ISA delivers a new level of free, extensible software and hardware freedom on architecture, paving the way for the next 50 years of computing design and innovation.

We are a transparent, collaborative community where all are welcomed, and all members are encouraged to participate. We are a continuous improvement organization. If you see something that can be improved, please tell us. help@riscv.org

We as members, contributors, and leaders pledge to make participation in our community a harassment-free experience for everyone.

https://riscv.org/risc-v-international-community-code-of-conduct/



Agenda

- 1. Submission status update (llvm, binutils)
- 2. psABI status
- 3. Round table q&a



Submission status update

- LLVM/Clang
 - Overlay patches match latest changes to the HLD
 - https://reviews.llvm.org/D109371
 - https://reviews.llvm.org/D109372
 - Patch submitted to add new reserved register ELF attribute
 - https://reviews.llvm.org/D113890
- GNU Binutils work in progress
 - Extends BFD to build overlay tables during link and resolve overlay relocations
 - Currently refactoring changes to be separate from main RISC-V BFD
 - Needs handling of reserved register attribute
- GNU GDB work in progress
 - Adding overlay manager class to allow different overlay systems to be
 - supported



psABI Status

- Request for Reserved registers Tag
 - psABI task group approved the change for adding a new elf attribute <u>Tag_RISCV_reserved_register</u>
 - PR was created by @kito-cheng: <u>New attribute: Tag_RISCV_reserved_register</u>
- Overlay toolchain uses this Tag
 - To reserve register used by the RT-Engine



Round table – Q&A

Open issues



