



RISC-V[®]



#3

All things RISC-V (and fringe)!

Community (let's get to know each other)

Speakers? Sponsors (location/snacks)

Please! Contact me!



Jim Keller ✓

@jimkxa



I can do it for less than \$1T



Sam Altman ✓ @sama · Feb 16

fk it why not 8

3:42 AM · Feb 17, 2024 · **654.9K** Views

[short] Introduction/Welcome (Björn Töpel, Rivos; Olof Kindgren, Qamcom)

[short] New Accelerated Applications in Space enabled by RISC-V and AI (Dag Helmfrid, Imsys)

MicroBlaze V Fast Interrupts (Göran Bilski, AMD)

The EuroHPC road towards RISC-V-based supercomputing
(Miquel Pericas/Bhavishya Goel, Chalmers)

Extending the reach of RISC-V with Renode & Zephyr, on Earth and beyond (Michael Gielda, Antmicro)



“Risk-five”

Royalty free/**open** standard instruction set architecture (companies come and go...)

ISA, and non-ISA (e.g. IOMMU)

Mix/match “extensions” => “profiles”

MCU to HPC

IT'S NOT DONE YET!

LIVE

BREAKING NEWS

Linux 6.8-rc4:

In: In-kernel vector support \o/

WIP: AIA (!) IOMMU ACPI

Ventana Veyron V1^H2

RISC-V official Android port

Boards, boards, and boards

Bosch, Infineon, Nordic, NXP, and Qualcomm
=> Quintauris

AMD Microblaze V, Synopsys ARC-V, (Intel
Nios V)

LIVE

BREAKING NEWS

OpenTitan TO (zeroRISC, lowRISC)

Caliptra

Nordic Semi working on an RV core
(upcoming meetup speaker! ;-))

<https://gitlab.com/riseproject/riscv-optimization-guide>

What else?!



Olof Johansson

@olofj



It's a journey, not a destination. Most projects/communities (even those originating in Cambridge, UK) think that the previous learnings aren't always applicable to their situation since it's extra work vs the simple solution. So, you go down the path of making the mess, then you all look at it, realize it needs to be cleaned up, and you fix it. By then everybody is properly invested in the need for a better solution.

It's not something new. I agree, it seems like you should just be able to take the shortcut and jump directly to the end spot you need to be, but you won't have the shared understanding of why you need to be there in the same way.

The bright side on all of this is that you can intercept here and there, and there are less unknowns in what direction you should head towards when people are ready to deal with it. And hopefully, you can avoid the longest scenic routes to get to the final destination. But sometimes you just have to be patient.

Or, to put it like someone much wiser than me says: To FO, you need to FA.



Jon Masters 🗨️ @jonmasters · Feb 12

Replying to @jonmasters

The RV community continues to crack me up with this stuff regularly. Snatch defeat from the yada yada yada. YOLO.



WE NEED YOUR HELP!

Specifications, HW, SW

<https://fosdem.org/2024/schedule/track/risc-v-devroom/>