



From RISC-V with AI to AI with RISC-V

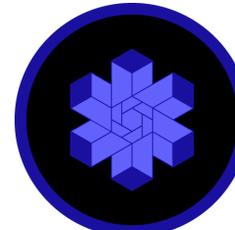
Volker Politz
Chief Sales Officer
May 2025



In Order
Core



OOO
Core

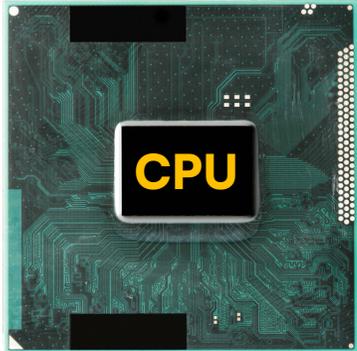


OOO
Vector
Unit



Tensor
Unit

We started with a look at CPU...



Market Needs

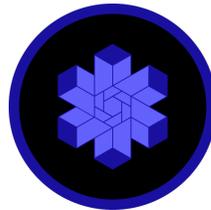
- DMIPS / SPECint
- Cash Management
- Memory Bandwidth



64-Bit
RISC-V CPU

More Data

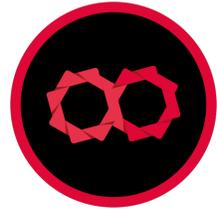
- Big Data Movement
- Vectorized Data Bases
- Complex AI tasks



Vector Unit

Even More Data

- Memory Wall
- Cash Misses



Gazzillion
Misses™

AI algorithm enablement

- Matrix Multiplications

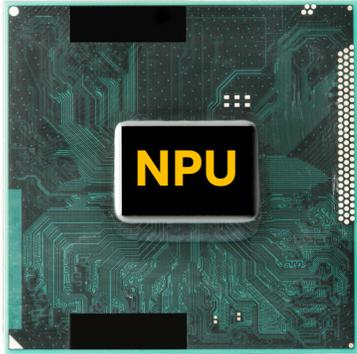


Tensor Unit

Do More with CPU!



...and we saw a RISC-V enabled NPU !

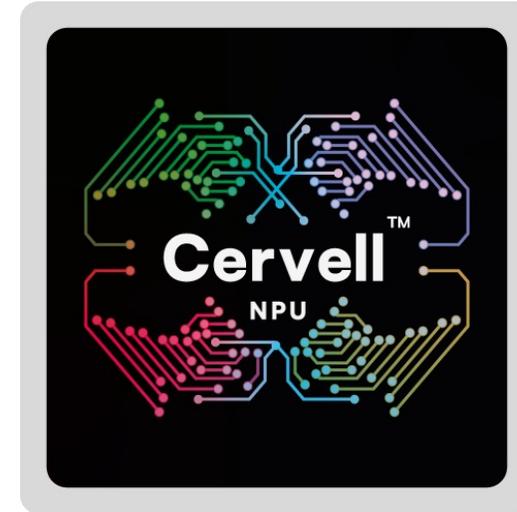


Market Needs

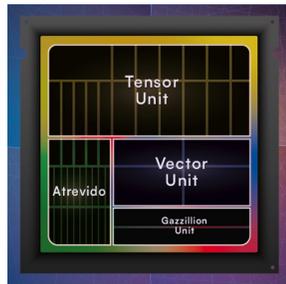
- TOPS
- Token/Sec



Aliado SDK
ONNX Support



NPU
RISC-V
ISA



Single RISC-V
ISA AI compute element

Delivering the Risc-V ISA benefits
to NPU markets”



Thank you