



PRODUCTION LINE 4B - GLOBAL EXPORT

SERVING THE WORLD:
ROUTE A1 - EUROPE/AMERICA/ASIA

OCEAN ODYSSEY

GLOBAL LOGISTICS

SHIP TO:
NEW YORK

HAMBURG

SHIP TO:
NEW YORK

HAMBURG

MICROCHIPS

PCB MODULES

MICROCHIPS

MICROCHIPS

MICROCHIPS

PCB MODULES

500 100 100 100

100 100 100 100

100 100 100 100

100 100 100 100

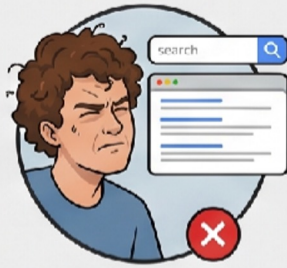
No Fab Required: Monetizing RISC-V Designs in the Cloud

Jeremy Dahan (he/him/his)



THE STRUGGLING CUSTOMER JOURNEY

STRUGGLE & DELAY



SEARCH ON WEBSITE
FAILED SEARCH,
UNRELATED RESULTS



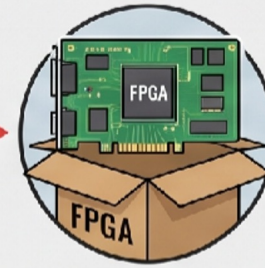
CONTACT
NO RESPONSE,
LONG WAITS



SETUP MEETING
MEETING MEETING



GET PAPERWORK DONE
MISSING INFO,
CONFUSING



ORDER FPGA
BOARD



TRY TO FLASH IT, FAIL
Error: Unverified Hardware Part
[cite: User Summary: specific technical context]

THE COMPANY'S PARALLEL JOURNEY

PRE SALES

SALES

LEGAL

FIELD ENGINEERS

??

CONFUSION





Agent mode

Find your perfect match from over 30k cloud solutions

Let's guide you to the right solution. What's your business need?

0 / 4000 characters

By using agent mode, you agree to this disclaimer.

On shared computers, your uploaded information might be visible to other users. Do not share confidential data.

Try these tasks

Compare products

Get a bespoke comparison of products.

Deep research

Create proposal

Generate a comprehensive business proposal.

Deep research

The most subscribed products last month

AI Agents & Tools

SaaS

AMI

Container

Machine Learning

Professional Services

Data

Free

Top 1

brave

By Brave

Brave Search API

Top 2

upstage

By Upstage

Document Intelligence - AI

Top 3

By Asana

Asana MCP Server

Top 4

By Pokee AI

Pokee AI Agent



AWS Marketplace expands AMI self-service listing experience to FPGA products

Posted on: Jan 27, 2026

AWS Marketplace now offers a self-service listing experience for sellers listing Amazon Machine Image (AMI) products with FPGA (Field Programmable Gate Array) images. This new capability eliminates the previous dependency on manual Product Load Forms and accelerates time-to-market for AWS partners that offer specialized hardware accelerators using FPGA technology on supported Amazon F2 instance types.

With this launch, sellers can now create and manage AMIs with Amazon FPGA images using a new UI experience or programmatically through the AWS Marketplace Catalog API. During listing creation, sellers are guided through a step-by-step workflow to fill in required information about their listings including up to 15 Amazon FPGA images. The self-service experience includes comprehensive inline validation and error messages to help sellers identify and resolve configuration issues before submission, streamlining the publishing process and improving speed to market.

To learn more, see the [AWS Marketplace Seller Guide](#) and the AWS Marketplace [Catalog API guide](#). To get started, visit the server [product page](#) in the AWS Marketplace Management Portal.



🔮 Agent mode

Project: I want to develop RISC-V IP on AWS FPGA where to s...

☰

★

⋮

Results

Analysis steps

I want to make sure I understand your needs correctly. Are you looking for:

1. **FPGA development tools and platforms** that support RISC-V IP design and can run on AWS infrastructure (like FPGA instances or development environments)?

2. **Pre-built RISC-V IP cores or solutions** that you can deploy on AWS FPGA instances?

3. **Professional services or consulting** to help you develop custom RISC-V IP for AWS FPGA?

4. Something else related to RISC-V and AWS FPGA development?

This will help me find the most relevant solutions for you on AWS Marketplace.

Search FPGA development tools on AWS Marketplace

Results

Analysis steps

Recommended products

▼ Bottom

View

Next <

Compare top 3 recommended products

Learn about FPGA developm >

Ask a question

⤴

➤

Recommended products (4)

>

Fullscreen

aws

FPGA Developer AMI (Ubuntu)

by Amazon Web Services

2 available options

Deployed on AWS

AWS Free Tier

✦ FPGA Developer AMI provides a pre-configured Ubuntu environment specifically designed for FPGA development, directly supporting your need for ready-to-use FPGA tools on AWS infrastructure.

✦ Integration with the AWS FPGA GitHub repository gives you access to development kits and resources that streamline RISC-V IP implementation and FPGA design workflows.

✦ Running on AWS instances eliminates local hardware setup complexity, letting you focus on RISC-V IP development and FPGA prototyping without infrastructure overhead.

Available options:

[FPGA Developer AMI \(Ubuntu\)](#)

[FPGA Developer AMI \(Rocky Linux\)](#)

Get started ▼

AMD XILINX

Vivado ML 2025.1 Developer AMI

by AMD Xilinx

2 available options

Deployed on AWS

AWS Free Tier

✦ Vivado ML 2025.1 provides pre-built FPGA development tools on AWS, directly enabling you to design and optimize RISC-V implementations on AMD Xilinx devices without manual tool setup.

✦ Machine learning-based optimization accelerates your RISC-V IP design closure while collaborative features and C-based design support streamline the development workflow for complex FPGA projects.

✦ The AMI integrates with AWS FPGA instances, letting you leverage cloud infrastructure for RISC-V development while maintaining access to optimized reuse libraries and automation capabilities.

Available options:

[Vivado ML 2024.2 Developer AMI](#)

[Vivado ML 2024.1 Developer AMI](#)

Get started ▼

AMD XILINX

Vitis 2024.2 Developer AMI

by Amazon Web Services

2 available options

Deployed on AWS

AWS Free Tier

✦ Vitis 2024.2 provides pre-built FPGA development tools on AWS, directly enabling you to design and optimize RISC-V implementations on AMD Xilinx devices without manual tool setup.

✦ Machine learning-based optimization accelerates your RISC-V IP design closure while collaborative features and C-based design support streamline the development workflow for complex FPGA projects.

✦ The AMI integrates with AWS FPGA instances, letting you leverage cloud infrastructure for RISC-V development while maintaining access to optimized reuse libraries and automation capabilities.

Available options:

[Vitis 2024.1 Developer AMI](#)

Get started ▼

System

Visual System Integrator for FPGA and Embedded

by Amazon Web Services

2 available options

Deployed on AWS

AWS Free Tier

✦ Visual System Integrator for FPGA and Embedded provides pre-built FPGA development tools on AWS, directly enabling you to design and optimize RISC-V implementations on AMD Xilinx devices without manual tool setup.

✦ Machine learning-based optimization accelerates your RISC-V IP design closure while collaborative features and C-based design support streamline the development workflow for complex FPGA projects.

✦ The AMI integrates with AWS FPGA instances, letting you leverage cloud infrastructure for RISC-V development while maintaining access to optimized reuse libraries and automation capabilities.

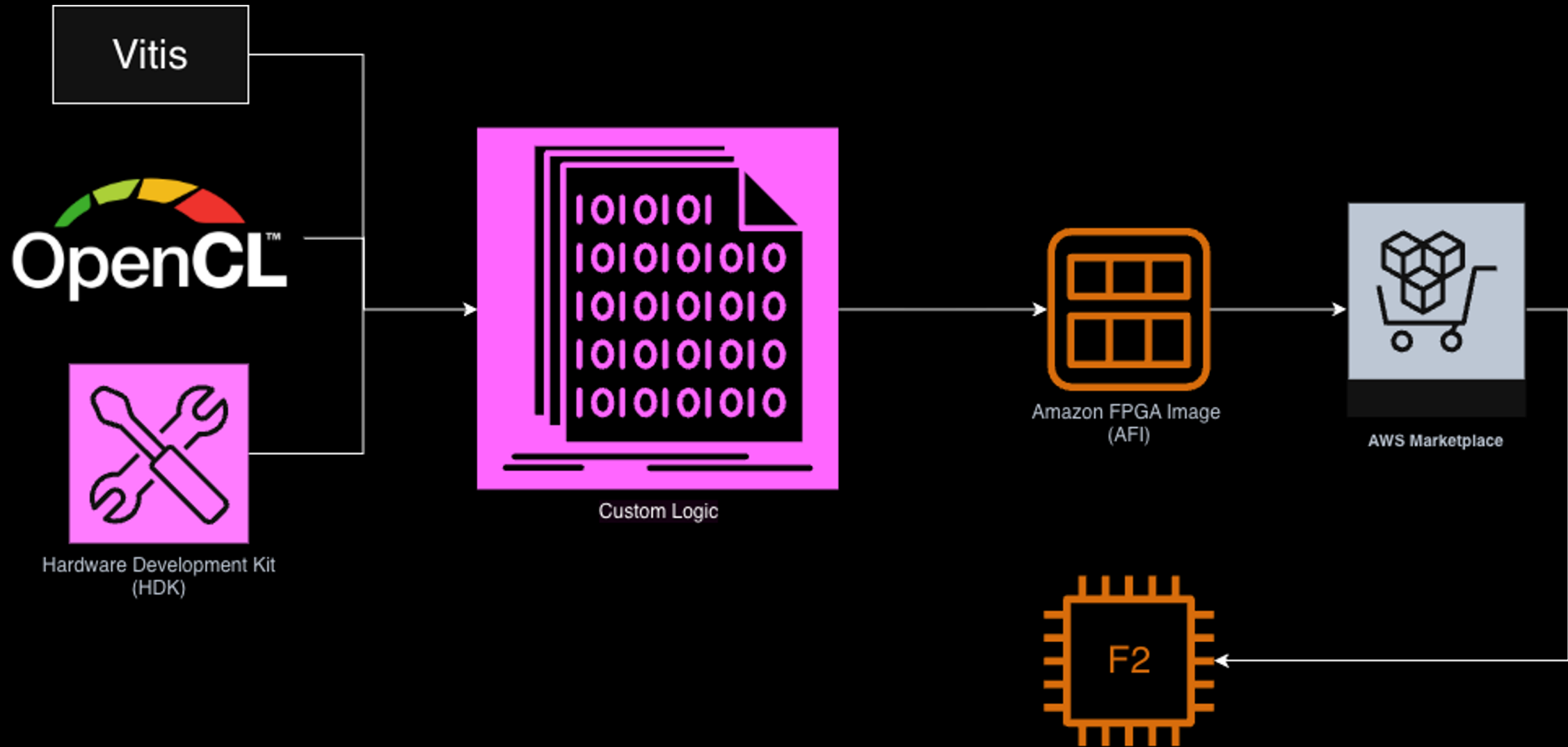
Available options:

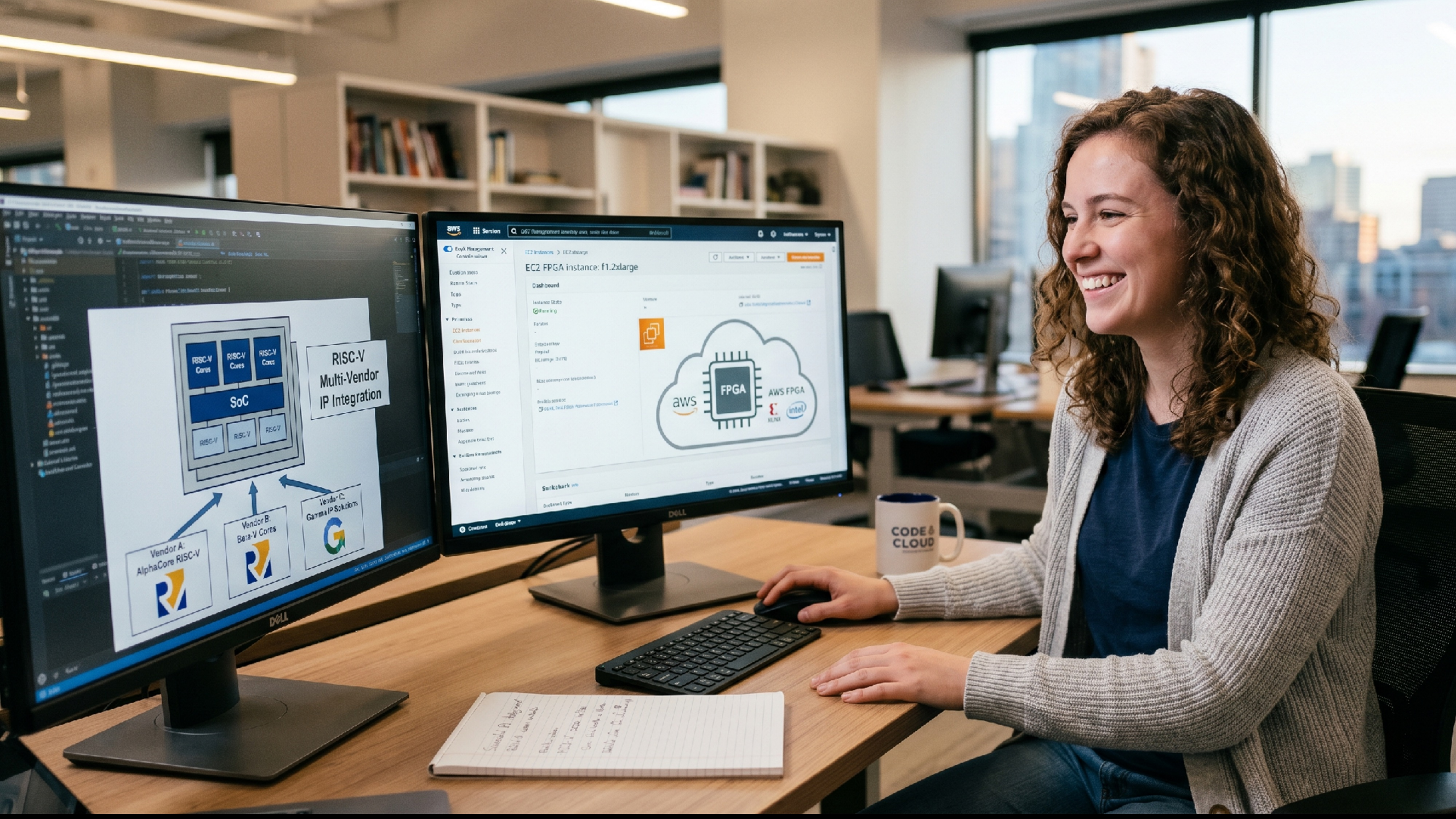
[Visual System Integrator for FPGA and Embedded](#)

Get started ▼

Instance Name	FPGAs	vCPU	FPGA Memory HBM / DDR4	Instance Memory (GiB)	Local Storage (GiB)
f2.6xlarge	1	24	16 GiB/ 64 GiB	256	1x 940
f2.12xlarge	2	48	32 GiB / 128 GiB	512	2x 940
f2.48xlarge	8	192	128 GiB / 512 GiB	2,048	8x 940

Amazon EC2 F2 instances, FPGA (Field-Programmable Gate Array)
 Powered by up to 8 AMD Virtex UltraScale+ HBM VU47P FPGAs





RISC-V
Multi-Vendor
IP Integration

Vendor A:
AlphaCore RISC-V

Vendor B:
Beta-V Cores

Vendor C:
Gamma IP Solutions

Successful AI deployment
Build a custom model
Train on data
Deploy to edge device
On the cloud or on-prem
Monitor and optimize

EC2 FPGA instance: f1.2xlarge

FPGA

AWS FPGA

CODE & CLOUD

Can the vision become a reality?

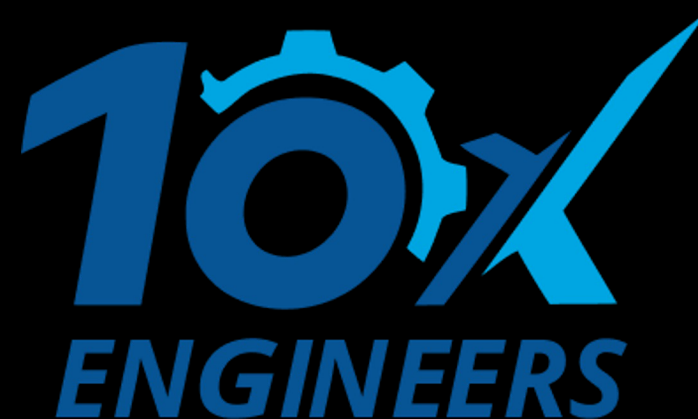


On the Open source side:



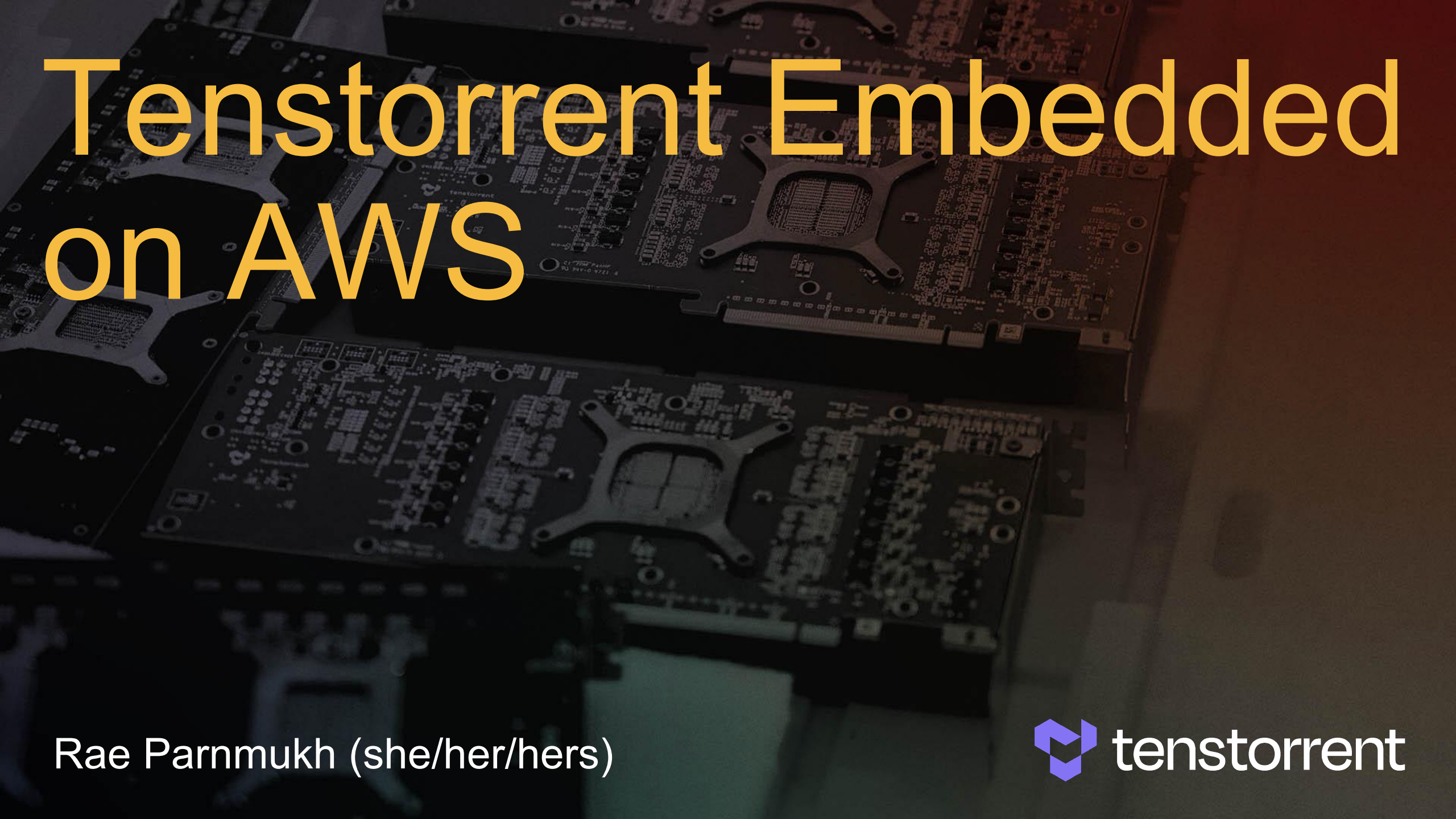
FOUNDATION
OPENHW[™]
— PROVEN PROCESSOR IP —

HARVEY
MUDD
COLLEGE





tenstorrent



Tenstorrent Embedded on AWS

Rae Parnmukh (she/her/hers)

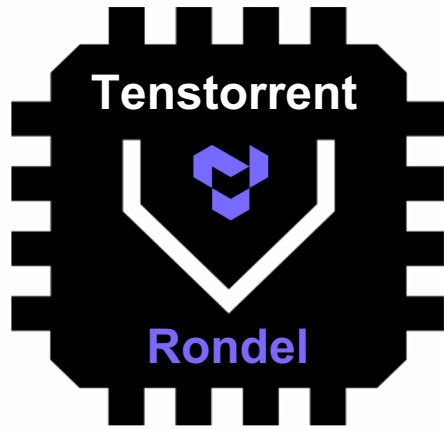


Rondel on AWS makes embedded CPU IP usable before silicon

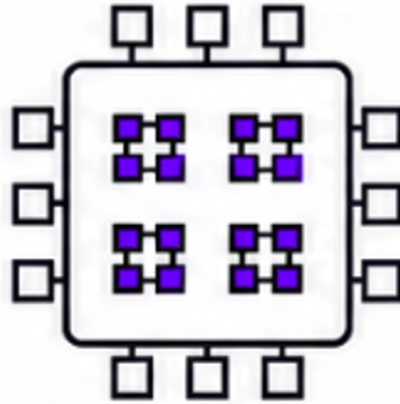
A cloud deliverable target for evaluation, demonstration, and early customer engagement



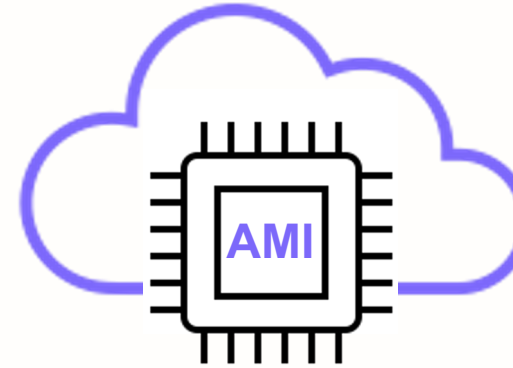
1. PROCESSOR IP
Rondel Embedded CPU



2. AFI
AWS FPGA Image (AFI)



3. EC2 F2 Runtime
Run and evaluate in the cloud



4. AWS Marketplace
Discover, subscribe, launch



TODAY! AFI is a publicly loadable by any AWS account

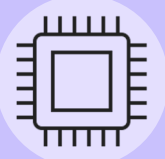


No boards, lab time, or tapeout required to get started



Shareable cloud path for customer demos and early evaluation

Rondel is the right embedded RISC-V target for real firmware-heavy systems



RV32 embedded RISC-V target
Proven ISA, broad toolchain and ecosystem support

☒



Single or dual-issue 6-stage embedded core
Balanced performance, efficiency, and area for firmware-heavy workloads

☒



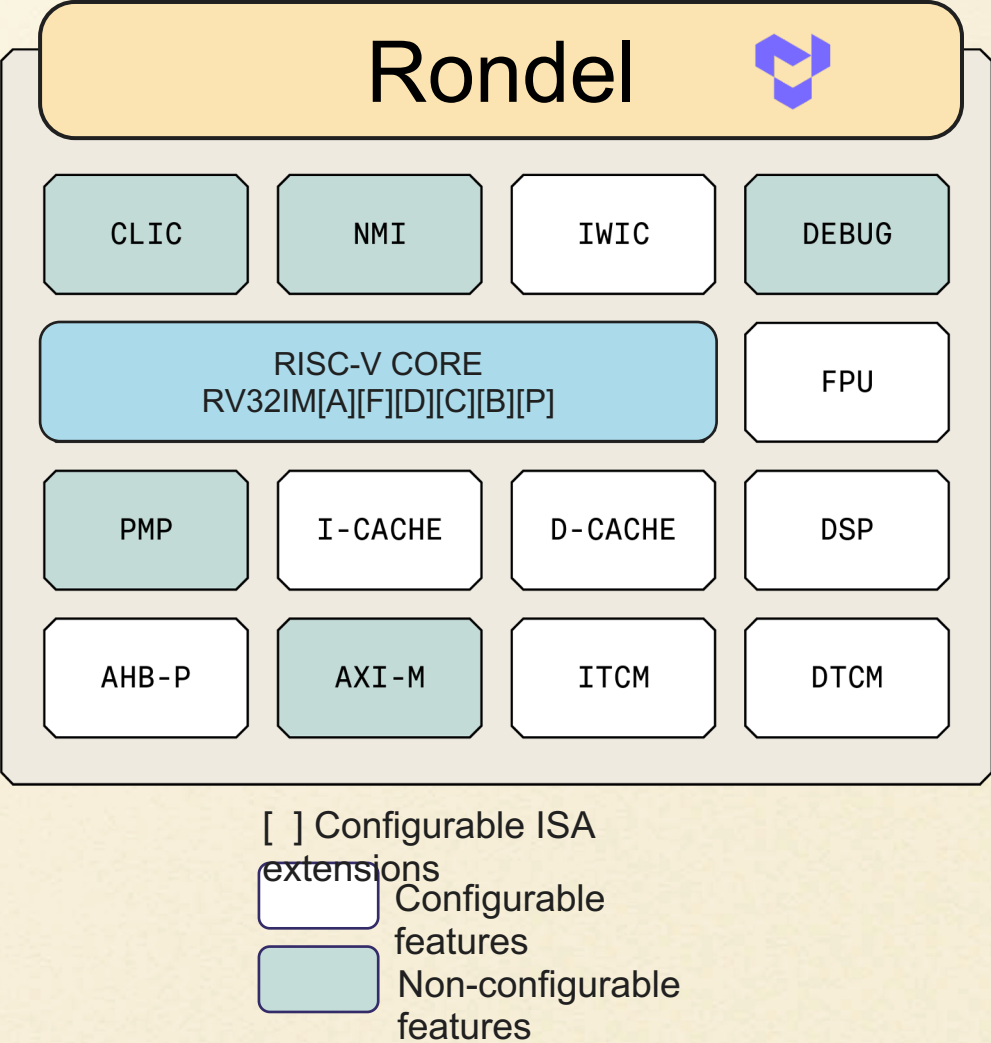
ASIL-D capable
Safety-oriented design for functional safety applications

☒

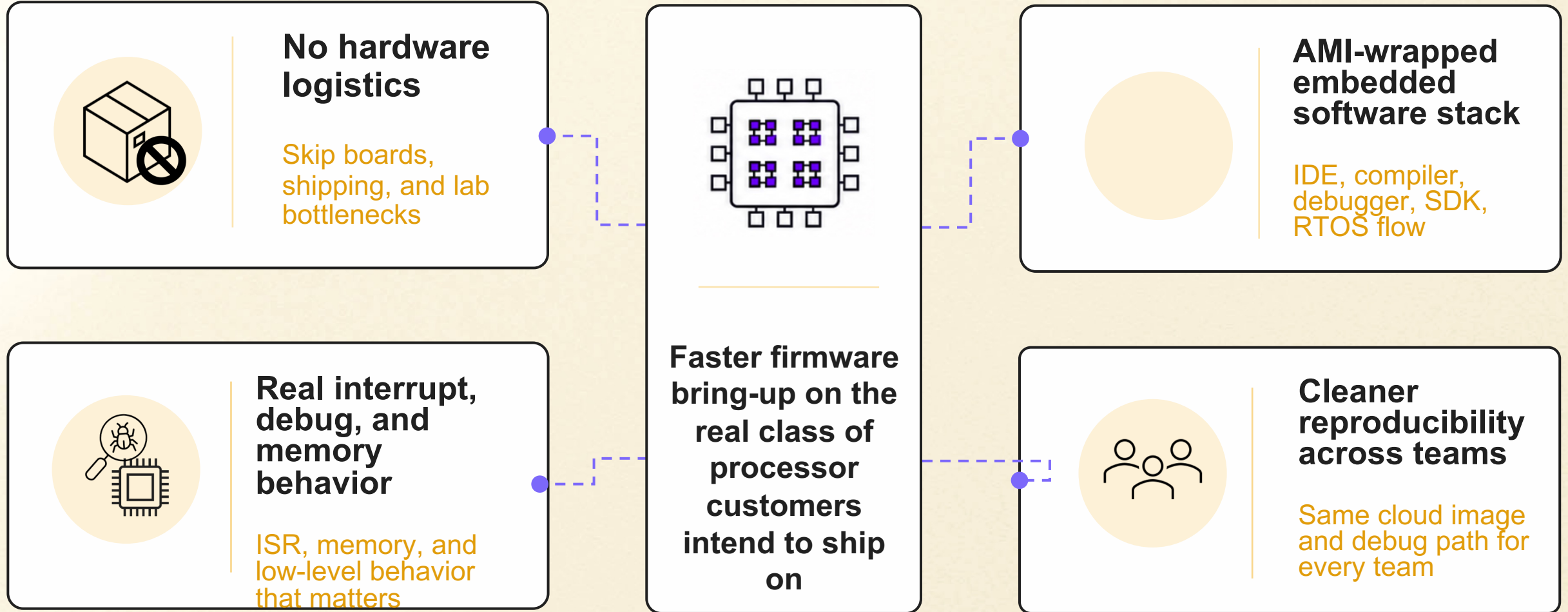


Fit for automotive, robotics, and industrial automation
Built to power the systems that move our world

☒



Rondel on Amazon EC2 F2 speeds bring-up without losing target accuracy



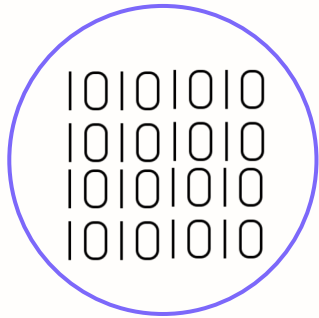
Rondel AFI List ID 'afi-0631f6000abac6b3b'
Compiled to "f2.12xlarge"

AWS expands Rondel from evaluation to reach



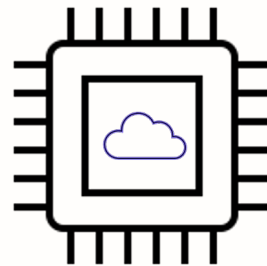
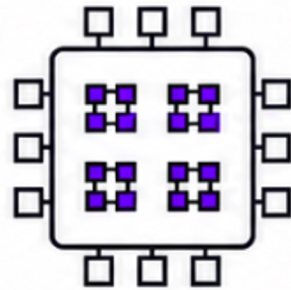
1. AFI

Rondel AFI on AWS



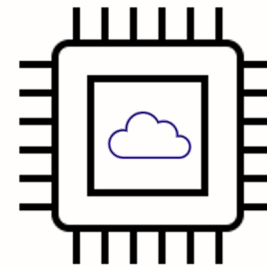
2. EC2 F2 Access

Run on F2 Instances



3. AMI / Marketplace Distribution

Distribute via AMI and AWS Marketplace



Rondel on AWS:

Engineered for performance, built for the cloud, ready for the world.



1. Broader discovery

Reach millions of builders and enterprises through the AWS Marketplace.



2. Simpler customer access

Reach millions of builders and enterprises through the AWS Marketplace.



3. A path to cloud-based market

Scale usage, capture value, and build ecosystem in the cloud.

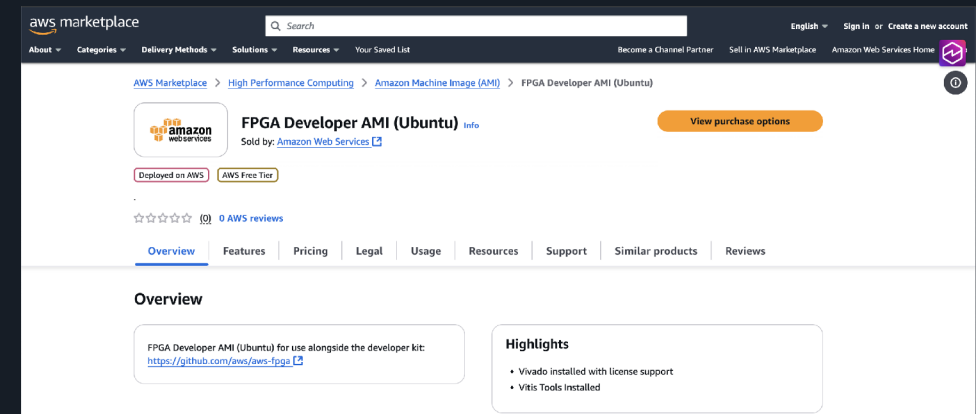
Tenstorrent + AWS: powering Rondel on AWS from evaluation to global distribution



Come visit our booth
or
<https://tenstorrent.com/>

Call to action

- <https://fpga-development-on-ec2.workshop.aws/en/1-introduction.html>
- <https://github.com/aws/aws-fpga>
- <https://aws.amazon.com/solutions/guidance/scaling-electronic-design-automation-on-aws/>

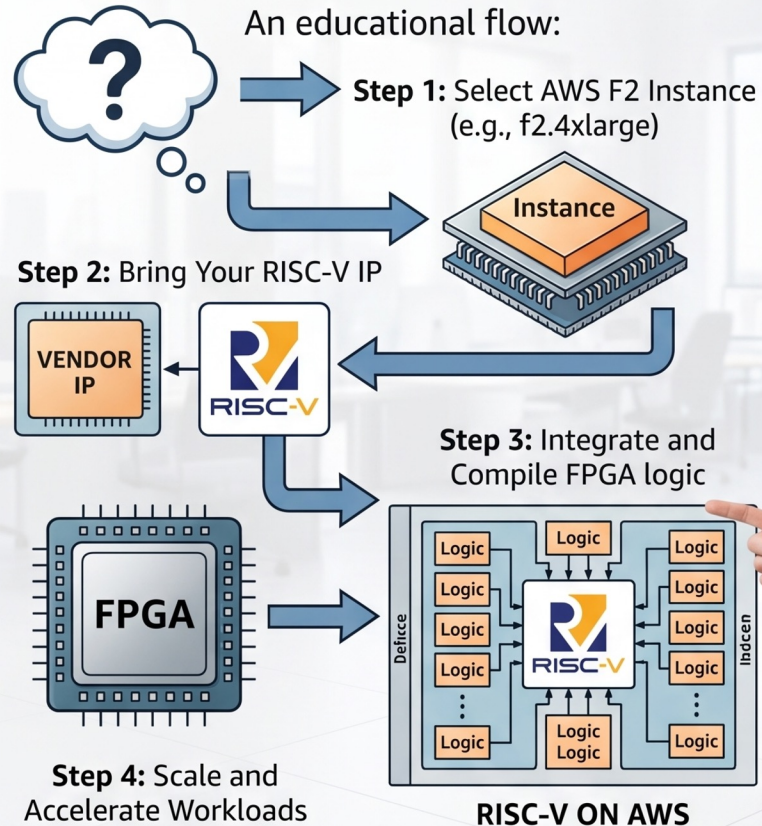


THANK YOU!

From Jeremy Dahan & AWS F2!

HOW DO I USE RISC-V ON AWS?

An educational flow:



Connect with me: <https://www.linkedin.com/in/dahanj/jereudah@amazon.com>



Scan to connect