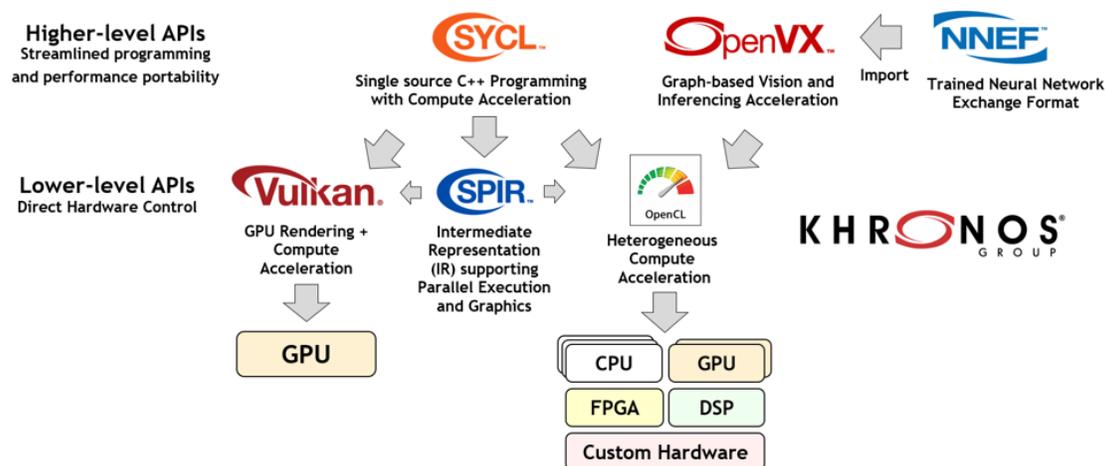


AI DEVELOPMENT TOOLS & OPERATING SYSTEMS FEATURE

Open Standards for Accelerating Embedded Vision and Inferencing: An Industry Overview

The ever-advancing field of machine learning has created new opportunities for deploying devices and applications that leverage neural network inferencing with never-before-seen levels of vision-based functionality and accuracy. But, the rapidly evolving field has given way to a confusing landscape of processors, accelerators, and libraries. This article treats open interoperability standards and their role in reducing costs and barriers to using inferencing and vision acceleration in real-world products.

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EDGE INFERENCING NEWS

Google, Murata Integrate Coral Edge TPU in Tiny AI Module

The custom-designed module measures a tiny 10 mm x 15 mm x 1.5 mm while delivering up to 4 TOPS of performance at the expense of only 2 TOPS per watt of power consumption. This is thanks in part to a PMIC integrated into the Edge TPU chipset.

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AI DEVELOPMENT TOOLS & OPERATING SYSTEMS NEWS

Vulkan 1.2 GPU Acceleration Spec Released by Khronos Group

The latest version adds 23 extensions to the Vulkan API that provide access to new hardware functionality, increase application performance, and improve overall usability.

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GreenWaves? Ultra-Low Power GAP9 IoT Apps Processor Suits Intelligence at the Edge

The NanoVision demo kit for the NanEyeC is based on an Arduino development platform, and includes all necessary drivers to interface the sensor's Single-Ended Interface Mode output to an Arm Cortex-M7 microcontroller.

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VOICE PROCESSING FEATURE

Voice Assistants Going Embedded

A variety of studies have all supported that 20-60 percent of households have serious concerns about privacy and "always listening" devices that send conversations to the cloud. But it could get revived through a couple of new initiatives which will have a big effect on embedded voice assistants.

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