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Marvell Announces Successful Interoperability of Structera CXL Portfolio with AMD EPYC CPU and 5th Gen Intel Xeon Scalable Platforms

Enabling Cloud Data Center Operators to Overcome Memory Performance and Scaling Challenges in General-purpose Servers

SANTA CLARA, Calif., April 23, 2025 /PRNewswire/ -- Marvell Technology, Inc. (NASDAQ: MRVL), a leader in data infrastructure semiconductor solutions, today announced the successful interoperability of the Marvell® Structera™ portfolio of Compute Express Link® (CXL®) devices with AMD EPYC™ CPUs and 5th Gen Intel Xeon platforms. This achievement underscores the commitment of Marvell to advancing an open and interoperable CXL ecosystem, addressing the growing demands for memory bandwidth and capacity in next-generation cloud data centers.

Marvell collaborated with AMD and Intel to extensively test Structera CXL products with AMD EPYC and 5th Gen Intel Xeon Scalable platforms across various configurations, workloads, and operating conditions. The results demonstrated seamless interoperability, delivering stability, scalability, and high-performance memory expansion that cloud data center providers need for mass deployment.

This interoperability gives customers the flexibility to choose from a variety of CPU architectures, enabling deployment of CXL solutions across diverse hardware configurations. By leveraging the strengths of each platform for specific workloads and applications, customers can maximize their investment while maintaining seamless integration and consistent performance.

"CXL 2.0 represents the next generation of scalable infrastructure. The collaboration between AMD, Intel and Marvell will help enable the growth of an ecosystem for driving the benefits of CXL for customers everywhere," said Will Chu, senior vice president and general manager, Custom Cloud Solutions at Marvell. "This successful interoperability showcases our ability to deliver innovative, high-performance solutions that redefine the efficiency, sustainability, and performance of cloud technology."

"We are committed to advancing high-performance, scalable, and energy-efficient solutions to power next-generation data centers," said Raghu Nambiar, corporate vice president, Data Center Ecosystems and Solutions, AMD. "Our deep technology partnership with Marvell combines the robust capabilities of AMD EPYC processors with Marvell's CXL portfolio to help our customers unlock enhanced memory efficiency, greater flexibility, and reduced total cost of ownership—driving tangible benefits for business-critical workloads."

"Our collaboration and ongoing enablement activities with Marvell demonstrate our commitment to the CXL 2.0 standard, helping to ensure memory efficiency and seamless deployment across cloud-scale infrastructures," stated Richelle Ahlvers, director, Ecosystem Enabling and Technology Initiatives, Intel.

Enabling Scalable and Efficient Data Center Architectures

The Structera product family, built on CXL 2.0, enables cloud service providers and server OEMs to dramatically increase the memory capacity and bandwidth of servers or add additional computing cores to improve the performance and capabilities of cloud servers efficiently and economically. Structera can also add computing cores for offloading memory-intensive applications such as artificial intelligence, machine learning, in-memory databases and high-performance computing. Key products within the Structera portfolio include:

- **Structera A**: Near-memory accelerators featuring server-class Arm® Neoverse® V2 cores, DDR5 support, and up to 1.6 Tbps of memory bandwidth, optimized for high-bandwidth workloads such as deep learning recommendation models (DLRM).

- **Structera X**: Memory expansion controllers supporting DDR4 and DDR5 DIMMs, enabling the deployment of terabytes of memory capacity while optimizing both cost efficiency and power consumption.

The integration of CXL 2.0 technology enables cache coherency and memory pooling across devices, optimizing resource utilization, reducing the need for additional servers, and promoting sustainable data center architectures.

About Marvell
To deliver the data infrastructure technology that connects the world, we're building solutions on the most powerful foundation: our partnerships with our customers. Trusted by the world's leading technology companies for over 25 years, we move, store, process and secure the world's data with semiconductor solutions designed for our customers' current needs and future ambitions. Through a process of deep collaboration and transparency, we're ultimately changing the way tomorrow's enterprise, cloud, automotive, and carrier architectures transform—for the better.

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Reports on Form 10-Q and other documents filed by us from time to time with the SEC. Forward-looking statements speak only as of the date they are made. Readers are cautioned not to put undue reliance on forward-looking statements, and no person assumes any obligation to update or revise any such forward-looking statements, whether as a result of new information, future events or otherwise.

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