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A better way to cloud: TI's new KeyStone multicore SoCs revitalize cloud applications

Announcement quote sheet

3L Ltd.

“Supporting TI’s new KeyStone-based multicore SoCs is a natural extension for us, as we have been simplifying the development of solutions involving multiple processing elements for over 20 years,” said Peter Robertson, President and TechFounder, 3L Ltd. “Together with TI, we’re making designing with multicore easier for developers by automating the interconnection management when tasks are removed between cores or devices. The end result of our collaboration is making the development processes easier, faster and more efficient for designers.”

6WIND

“We are delighted to support TI as it broadens its KeyStone-based SoC product line into additional markets with critical network performance requirements,” said Eric Carmès, CEO, 6WIND. “As one of the first members of the TI Design Network to announce support for the KeyStone multicore architecture, we look forward to providing the proven 6WINDGate™ packet processing software to our mutual customers. The combination of the 6WINDGate software and the newest KeyStone architecture-based SoCs represent an ideal system solution for the demanding network performance challenges faced in today’s mobile and cloud infrastructure markets.”

Advantech

“With TI’s new KeyStone-based multicore SoCs, Advantech is able to expand its product lines from existing DSP-based signal and media processing centric solutions to hybrid designs that leverage multiple ARM and DSP cores in a seamless integration for control and data processing,” said David Lin, senior director of DSP and video solutions, Advantech. “Together, with TI, we are enabling solutions for a range of embedded applications, as well as core and cloud infrastructures and we look forward to our customers accelerating their design, integration and development times.

ARM

"With infrastructure equipment increasingly energy and thermally constrained, future capacity and performance demands require new and innovative approaches," said Vincent Korstanje, vice president, segment marketing, ARM. "Utilizing a highly integrated, heterogeneous approach leveraging TI's core strengths in DSP, networking and security provides compelling infrastructure and server solutions that address the data traffic created by the next wave of connected devices."

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Canonical

"We are truly excited by the opportunities that TI's KeyStone technology will open up in the hyperscale computing space," said Christian Reis, VP Hyperscale, Canonical. "We look forward to working with TI to provide an integrated hardware and software solution, based on Ubuntu Server, making workload deployment and optimization both accessible and effective."

CriticalBlue

"Heterogeneous multiprocessing is the next big development challenge for the embedded software community," said David Stewart, CEO, CriticalBlue. "Diverse workloads dictate the need for a wide range of different compute units on the target platform such as those found on TI's new KeyStone SoCs. When customers adopt such heterogeneous devices, demand for CriticalBlue's experience, expertise and tool technology increases dramatically so we're very excited about the opportunity to work closely with TI and their leading edge customers to incorporate this new platform into their products."

Enea

"Together, Enea and TI continue to bring value to the next generation products, not only for mobile network customers, but also for a broader market," said Dan Andersson, Director Strategic Alliances, Enea. "Our Yocto based Enea Linux distribution includes a comprehensive cross-development tool chain and runtime environment compatible with TI's latest multicore SoCs, and is ideal for flexible applications development and deployment. We look forward to working with TI and offering developers an integrated software foundation that brings an effective use of resources to the system with excellent core utilization, and significantly improved real-time and throughput performance."

Ittiam Systems

"Ittiam has a long history of collaboration with TI, including broadcast solutions that use C66x multicore DSPs," said Marc Guillaumet, vice president, marketing, Ittiam Systems. "We are very excited about the new devices in TI's KeyStone family that, with the addition of RISC cores, offer unparalleled performance and integration and open the door for us to work together on a new class of encoder and transcoder solutions for these demanding applications."

Linaro

"As a core member of Linaro, TI has been key to our success," said George Grey, CEO, Linaro. "We are excited to begin working on TI's new KeyStone products with multiple ARM Cortex-A15 cores. I am pleased to announce that TI has joined the other founding members of the Linaro Enterprise Group (LEG) to support the rapid development of the ARM software ecosystem for enterprise class workloads, and we look forward to enabling the new KeyStone multicore SoCs with Linaro's optimized tool chain and Linux kernel code, for embedded to purpose built server products."

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Mentor Graphics

"Mentor Graphics is pleased to support TI's new KeyStone-based devices with our Sourcery CodeBench development tools and our Mentor Embedded Linux platform," said Glenn Perry, general manager, Embedded Software Division, Mentor Graphics. "TI's silicon combined with our products, support and services, enables developers to easily and successfully deploy Linux and Android in challenging designs, such as automotive, imaging, and networking."

MontaVista Software

"TI's leadership in high performance multicore SoCs combined with MontaVista's trailblazing Linux based virtualization solutions and long standing history in carrier grade and network infrastructure deployments create a compelling solutions for next generation ARM based mobile core networks and power efficient cloud infrastructure," said Patrick MacCartee, director of network infrastructure, MontaVista Software.

Polycore Software

"TI's KeyStone multicore architecture offers a significant advancement in compute performance," said Sven Brehmer, president and CEO, PolyCore Software. "With design choices of RISC and DSP multicore technology with software and tools support, TI is providing the best solutions for a variety of high-performance applications' processing needs. We are excited to be working with TI to support the MCAPI standard with Poly-Platform, and, to provide a programming model that scales across both homogeneous and heterogeneous architectures."

Wind River

"The combination of TI's C66x multicore DSPs and ARM Cortex A15 processors in TI's new KeyStone SoCs is a compelling offering for a wide range of industries," said Warren Kurisu, vice president of product marketing at Wind River. "Wind River VxWorks and Wind River Linux running on TI's new devices are ideal solutions to address the high-reliability challenges faced by our customers in performance-driven and mission-critical markets."

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