ARM unveils Cortex-A15 MPcore processor

September 9 2010

ARM today introduced the Cortex-A15 MPCore processor that delivers a 5x performance improvement over today's advanced smartphone processors, within a comparable energy footprint. In advanced infrastructure applications the Cortex-A15 processor running at up to 2.5GHz will enable highly scalable solutions within constantly shrinking energy, thermal and cost budgets. The Cortex-A15 processor is available for licensing today and is targeted at manufacture in 32nm, 28nm, and future geometries.

As the latest addition to ARM's Cortex-A family of processors, the Cortex-A15 MPCore processor will enable a new and vast array of products ranging from next-generation smartphones, tablets, large-screen mobile computing and high-end digital home entertainment devices through to wireless basestations and enterprise infrastructure products.

The debut of the Cortex-A15 MPCore processor enhances the ARM Cortex-A Series of processors by providing the electronics industry with the broadest range of software and feature-set compatible processors. The Cortex-A15 extends the capabilities of the ARM Cortex-A Series by adding efficient hardware support for OS virtualization, soft-error recovery, larger memory addressability and system coherency. While remaining true to ARM's power-efficient design heritage, the Cortex-A15 MPCore processor brings a new level of performance scalability as well as a feature set that enables ARM Partners to address a range of innovative and traditional markets with a single processor architecture.

The Cortex-A15 also enjoys full application compatibility with all of the

other highly acclaimed Cortex-A processors. This enables immediate access to an established developer and software ecosystem including Android, [Adobe Flash Player](#), Java Platform Standard Edition (Java SE), JavaFX, Linux, Microsoft Windows Embedded Compact 7, Symbian and Ubuntu, along with more than 700 ARM Connected Community members providing applications software, hardware and software development tools, middleware and SoC design services.

Collaborative differentiation through partnership continues to be the main driver of the ARM business model and the launch of the Cortex-A15 MPCore processor is the result of ARM's work with lead licensee partners Samsung, ST Ericsson and Texas Instruments, who were key drivers of the definition of the [processor](#), ensuring it meets the key challenges faced by the industry.

 More information: [www.arm.com/products/processor … tex-a/cortex-a15.php](#)

Source: ARM

Citation: ARM unveils Cortex-A15 MPcore processor (2010, September 9) retrieved 24 April 2024 from https://phys.org/news/2010-09-arm-unveils-cortex-a15-mpcore-processor.html