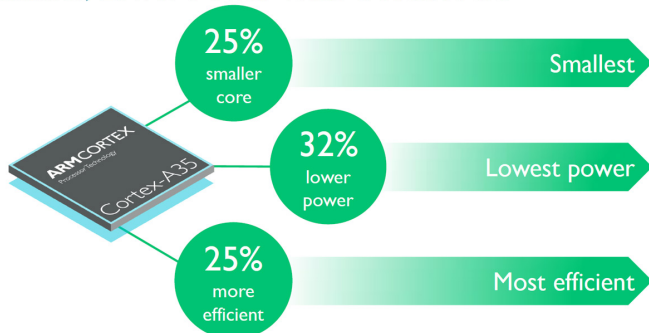## ARM Claims "Most Efficient" 64-bit Processor

Written by Marco Attard
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ARM announces a successor to the Cortex-A5 and A7 mobile processors-- the Cortex-A35, a 64-bit processor the company says is designed for mobile and embedded applications, including smartwatches.

The Cortex-A35 features big.LITTLE configurability, supports 32- and 64-bit capabilities and is 25% smaller than the Cortex-A53. It also consumes less power (90mW per core according to ARM) while featuring enhancements such as a redesigned instruction fetch unit, new in-order 8-stage pipeline and improved NEON floating-point performance, making it ideal for next generation low-cost devices.

"Cortex-A35 is the natural successor to the compact-footprint Cortex-A7, the leading energy-efficient processor, which has powered more than a billion smartphones and tablets," the company says. "With the introduction of the world's most efficient 64-bit capable mobile processor, ARM and its partners will deliver the benefits of 64-bit computing to the next billion smartphone users and beyond."

We will have to wait for devices taking advantage of the chip, though-- Cortex-A35 production silicon shipments will start by late 2016, meaning products carrying the chip should hit the market by Q1 2017 at the earliest.

Go New ARM Cortex-A35 Processor Extends the ARMv8-A Architecture Deeper Into Mobile and Embedded Markets