# Huawei Takes on ARM-Based Servers CPUs

Written by Marco Attard
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Huawei is the next company to present an ARM-based server processor-- the Kunpeng 920, designed for use in big data, distribution storage and ARM-native application scenarios, with higher performance per watt compared to the competition.



Built using a 7nm process, the Kunpeng 920 is based on ARMv8 architecture and offers 64cores operating at 2.6GHz. It also includes 8 channels of DDR4 memory and supports the RDMA over Converged Ethernet (RoCE) protocol, PCIe Gen 4 standard and Cache Coherent Interconnect for Accelerators (CCIX) architecture. Huawei claims the processor is faster by 25% on the SPECint benchmark compared to similar silocn, while power efficiency is 30% better.

"With Kirin 980, Huawei has taken smartphones to a new level of intelligence. With products and services (e.g., Huawei Cloud) designed based on Ascend 310, Huawei enables inclusive AI for industries," the company says. "Today, with Kunpeng 920, we are entering an era of diversified computing embodied by multiple cores and heterogeneity. Huawei has invested patiently and intensively in computing innovation to continuously make breakthroughs. We will work with our customers and partners to build a fully connected, intelligent world."

The launch of the Kunpeng 920 comes with a server series-- the TaiShan, with three models all powered with the processor. One is focused on storage, the other on high density, and the third on a balance of the two requirements. TaiShan servers promise both high performance and low power consumption, and are tuned for optimal multi-core high concurrency and resource scheduling. The Huawei Cloud runs on TaiShan servers, and offers elastic cloud, bare metal and cloud phone services.

Huawei is still to announce when the Kunpeng 920 and TaiShan servers are set to ship.

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