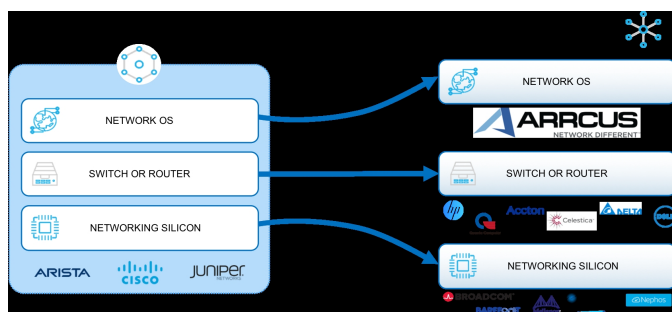


Arcus Supports 400GbE Networks

Written by Frederick Douglas
24 January 2019

Arcus, a startup behind the ArcOS open operating system for white-box switches, announces it now supports 400GbE and high-density 100GbE switching platforms, a first optimised for 5G and hyperscale cloud environments.



The announcement follows the production release of ArcOS on StrataXGS Trident 3 and StrataDNX Jerico+ based solutions, as it now also supports Broadcom StrataXGS Tomahawk 3. The silicon is available on platforms from multiple ODM vendors, featuring 32 ports of 400G (1RU) and 128 ports of 100G (4RU). The latest version of ARcOS enables a range of use cases, including hyperscale datacentre IP fabrics for deep learning workloads, massively distributed and interconnected edge datacentres and flatter topology of high-radix, low-latency storage environments.

As the first independent network OS to support Tomahawk 3-based platforms, ArcOS takes advantage of on-chip improvements in L3 routing and deep-packet buffering to deliver "massive" performance to bandwidth-hungry distributed cloud applications. Tomahawk 3 enables line-rate switching of up to 12.8 Terabits/sec, with a 4x increase in port density (compared to existing 100G switches). High-performance shared buffering and congestion control architecture reduce tail latency, while enhanced ECMP hashing and dynamic load balancing optimise performance in cloud and HPC environments.

"Immersive, data-intensive applications demand major advancements in network-bandwidth, scale-out performance, and convergence latency. To meet this explosive growth, our customers are looking for faster, smarter, and better networking solutions," Arcus says. "ArcOS delivers all of these and our rapid support of Tomahawk 3-based platforms unlocks elastic, open networking, standards-based solutions for building flatter, high-density data center fabrics."

The ArcOS high-density 100 and 400G platforms based on StrataXGS Tomahawk 3 will be available in Q2 2019.

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