

Penguin Computing's New High Density System Ultimate Data X1 Brings ARM's Low-power Footprint To The Data Center

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Penguin Computing today announced the immediate availability of its Ultimate Data X1 (UDX1) system. The UDX1 is the first server platform offered by a North American system vendor that is built on the ARM®-based EnergyCore System on Chip (SoC) from Calxeda. The UDX1 brings new levels of efficiency and scale to internet datacenters. With a five Watt power envelope per server the UDX1 is ideal for I/O bound workloads including "Big Data" applications, scalable analytics and cloud storage. The UDX1 offers a drastic reduction of TCO for high-density, low power computing environments. Workloads that have been processed by racks of conventional systems can now be handled by a group of servers in a single physical unit. The UDX1 features a modular architecture that can be configured with up to 48 Calxeda EnergyCore server nodes, with four cores per node. The system includes an internal 10 Gigabit Ethernet switch fabric for node-to-node connectivity and provides up to 144TB of hard drive capacity. "Power and cooling are the biggest facility challenges for most data centers, on the other hand typical cloud computing, web 2.0 and 'Big Data' applications are based on scale out architectures," said Charles Wuischpard, CEO of Penguin Computing. "A new generation of power efficient high density servers is required to run these workloads efficiently. With the incredibly low power envelope and the extremely high density Calxeda's EnergyCore SoCs offer, the UDX1 is the ideal platform for running these types of workloads." "Penguin is an innovator in Linux based solutions for internet datacenters and high performance computing. We are thrilled that their next generation of innovative products includes Calxeda," said Barry Evans, CEO Calxeda. "We are realizing this new era in breakthrough low power computing that will lift the constraints on datacenter performance and efficiency. Penguin is helping chart this course with an ideal solution to span from scale-out cloud storage to analytics." Penguin Computing will be showing a live demo of Hadoop running on the UDX1 at the upcoming Strata Conference + HadoopWorld on October 24-25 in New York. For more information, please visit www.penguincomputing.com.