

# Press Release

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## **CLUSTERED SYSTEMS ANNOUNCES ITS EXABLADE BASED "SUPER NODE" RUNNING INFISCALE SOFTWARE AT SC13**

DENVER, CO, NOV 18, 2013: The current generation of air cooled blades is subject to severe power constraints at blade and rack levels. More of everything - processors, network cabling, blades, racks and space, are required. ExaBlade systems are freed of these constraints. A single blade can cool over 2kW, and a rack, 200kW. Conditioned rooms are not required. ExaBlade systems can be installed virtually anywhere. Any combination of mechanically compatible off-the-shelf servers, GPUs or storage media can be accommodated and cooled. Infiscale's Software Defined Scalable Infrastructure (SDSI) manages Super Node systems spanning from a single chassis to hundreds.

The smallest ExaBlade unit is a chassis. Each has 20 slots cooled by cold plates. The front 16 slots house compute or storage blade while the 4 orthogonal rear blades network them

together. Six ExaBlade chasses can be mounted in an 800mm wide 48U rack. The rack distributes power and cooling to the chasses. Immediately available are Intel S2600JF system boards and PCI Express switches that provide blade-to-blade communication and Gigabit Ethernet management links. Planned are GPU and storage blades.

Infiscale's Software Defined Scalable Infrastructure (SDSI) knits the whole thing together. Four modules make up the software stack: Super Node Manager (SNM), PERCEUS OS and provisioning tool, Abstractual Intelligent system management and GravityFS Distributed, parallel file system. The GravityPark Open Parallel Toolkit (a next-generation compiler) is also available.

"After Clustered and Infiscale cooperated on writing some proposals we realized that our individual products have great synergy" said Phil Hughes, CEO of Clustered Systems.

"Our goal is to bring petascale computing into the mainstream industry for enterprise and Clustered's ExaByte system is an ideal platform for that." said Arthur Stevens, CEO of Infiscale.

**About Clustered Systems Company, Inc.**

Clustered Systems is a privately owned company specializing in innovations for system cooling and switching. They are the

developer of a revolutionary cold plate cooling system for 1U and blade servers. It was recognized as being the most energy efficient cooling system available in a series of tests performed by Lawrence Berkeley Labs under the aegis of the Silicon Valley Leadership Group California Energy Commission. Clustered installed the first ExaBlade based system at SLAC National Accelerator Laboratory earlier this year.

[www.clusteredsystems.com](http://www.clusteredsystems.com)

**About Infiscale, Inc.**

Infiscale has been in operation since 2005 delivering software defined scalable infrastructure technology at the industry forefront while developing next-generation software solutions for high performance, high throughput, and cloud computing environments. Utilizing open source software of their own design and that of others they support, Infiscale's solutions have deployed numerous Top500 listed supercomputers, demanding content delivery networks, web portals, proxy services, and fully-integrated software defined network/compute/storage scalable infrastructure. Infiscale's latest software stack features A.I. subsystems for node, cluster, and data center workload automation and learned behavior system administration assistance.

[www.infiscale.com](http://www.infiscale.com)

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