

# Hypercloud(TM) Memory Outperforms LRDIMM in Big Data, Big Memory Applications

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Supports 384GB Configurations at 1333 MT/s Memory Speeds to Enable Today's Key Applications

IRVINE, CA -- (Marketwire) -- 03/06/12 -- Netlist, Inc. (NASDAQ: NLST), a leading provider of high-performance controller-based memory subsystems, today announced that HyperCloud? HCDIMM? outperforms Load Reduced DIMMs (LRDIMM) when benchmarked on the latest generation Intel® Xeon® Processor E5-2600 motherboard configured with 384GB system memory. Benchmarks were performed by Computer Memory Test Labs (CMTL), the industry's leading independent compatibility test lab for memory module and motherboard compatibility testing. HCDIMM's Distributed Architecture results in reduced data skew and latency for superior memory bandwidth compared to LRDIMMs single memory buffer implementation.

"Our independent testing confirms that HCDIMM performance exceeded LRDIMM in the key metrics of Aggregate Memory Bandwidth by 17.5 percent, Time to Copy by 17.6 percent, and Cache Memory Bandwidth by almost 15 percent on a fully populated 24 DIMM, 384GB configured system," said Raji Tannouri, General Manager of CMTL.

"HCDIMM support for the highest capacity and speed configurations enables today's key applications such as financial trading, big data analytics, virtualization, and simulation applications such as EDA, FEA, CFD, CED to perform with optimal efficiency," said Devon Park, Vice President of Marketing for Netlist. "This enables our customers to benefit from increased productivity, resulting in additional advantages such as faster time to market and revenue, lower transaction cost processing, reduced OPEX (Operational Expenses), and reduced TCO (Total Cost of Ownership). Independent testing from CMTL is important in providing end users and OEMs with third party validation of the advantages provided by HCDIMM."

Benchmark tests were performed using SiSoftware's® Sandra Lite® benchmarking suite under identical test conditions with a SuperMicro® X9DR6-LN4+ motherboard, dual Intel® Xeon® E5-2650L processors running at 1.8GHz and 384GB HCDIMM and LRDIMM. Critical software applications will see faster run times resulting in increased revenue generation, quicker time to market, and reduced Operational Expenses (OPEX) through more efficient hardware, software and personnel utilization.

Additional information on Netlist's HyperCloud can be found at [www.netlist.com/hypercloud](http://www.netlist.com/hypercloud). HCDIMM Outperforms LRDIMM white paper can be found at [www.netlist.com/hcdimmbenchmark](http://www.netlist.com/hcdimmbenchmark).

## **About Computer Memory Test Labs (CMTL):**

CMTL was established in 1996 and has performed over 18,000 memory module compatibility tests, creating an industry standard for memory module and motherboard compatibility certification. Today, it has grown to become the leading independent memory compatibility test lab worldwide. CMTL provides independent compatibility testing services to the industry's leading manufacturers of computer memory, microprocessors, chipsets and motherboards. Once a product has been tested in CMTL's advanced laboratory, it is certified to be functionally compatible with the platform for

which it was tested. Platforms may include desktop, workstation, blade, or enterprise level server -- any device which includes memory module as part of its construction. For more information visit [www.cmtlabs.com](http://www.cmtlabs.com)

**About Netlist:**

Netlist, Inc. designs and manufactures high-performance, logic-based memory subsystems for server and storage applications for cloud computing. Netlist's flagship products include HyperCloud?, a patented memory technology that breaks traditional memory barriers, NVvault? family of products that enables data retention during power interruption, EXPRESSvault?, a PCI Express backup/recovery solution for cache data protection and a robust portfolio of high performance and specialty memory subsystems including VLP (very low profile) DIMMs and Planar-X RDIMMs.

Netlist develops technology solutions for customer applications in which high-speed, high-capacity, small form factor and heat dissipation are key requirements for system memory. These customers include OEMs that design and build tower servers, rack-mounted servers, blade servers, high-performance computing clusters, engineering workstations and telecommunications equipment. Founded in 2000, Netlist is headquartered in Irvine, CA with manufacturing facilities in Suzhou, People's Republic of China. Learn more at [www.netlist.com](http://www.netlist.com).

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