

# Netlist Demonstrates HybriDIMM™ Storage Class Memory in an Industry-First, Concurrent Operation of Big Data and In-Memory DB Applications

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IRVINE, Calif., Aug. 8, 2017 /PRNewswire/ -- Netlist, Inc. (NASDAQ: NLST), today announced the demonstration of its HybriDIMM™ storage class memory product at the 2017 Flash Memory Summit, taking place August 8-10 in Santa Clara, California. The demonstration will showcase two widely used open-source databases, for the first time, running concurrently on a Storage Class Memory (SCM) solution: MongoDB exercises HybriDIMM's in-memory channel block storage capabilities while the Redis in-memory database utilizes memory semantics to achieve a true persistent memory solution.

C.K. Hong, Netlist Chief Executive Officer, said, "With the flexibility to operate as main memory, block storage and persistent memory in a standard server – a first in the industry, HybriDIMM can serve as both a memory or storage solution for the rapidly growing markets in big data analytics, in-memory computing and artificial intelligence. This demonstration shows the versatility of HybriDIMM's revolutionary architecture and the practical benefits of data access through multiple operating modes in the memory channel SCM. We are pushing forward with our plans for commercializing this ground-breaking product, in concert with our development partners."

HybriDIMM combines existing memory semiconductors, DRAM and NAND Flash, with intelligent "on-DIMM" co-processing to seamlessly manage the data transfer between on-DIMM storage and the system. It is recognized by any x86 server as a standard LRDIMM with no BIOS modifications or system changes. HybriDIMM's three operating modes include Main Memory access via on board DRAM, and Block Storage and Persistent Memory accessed via on-board co-processors with NAND Flash. HybriDIMM's cost-effective fast storage and memory extension allows datacenter operators to lower the cost of running database applications, online transaction processing, big data analytics, and in-memory computing, and capitalize on the promise of storage class memory.

Please visit Netlist at Booth #809 at the Flash Memory Summit, August 8-10, 2017 in the Santa Clara Convention Center in Santa Clara, CA.

## Technical Summary of HybriDIMM:

- Unifies memory and storage into one module (DIMM), breaking the decades-long limitations of the Von Neumann computing architecture
- Applies the industry-adopted NVM Libraries to scale memory to storage capacities
- Accelerates storage access time in the memory channel
- Allows multi-terabytes of persistent memory to run real-time in-memory applications on existing Intel-based servers at speeds an order of magnitude faster than NAND
- Generation I HybriDIMM: configurable 256-512GB NAND + 8-16GB DRAM
- Generation II HybriDIMM: configurable 1TB NAND + 32GB DRAM

## **About Netlist**

Netlist is a leading provider of high-performance modular memory subsystems serving customers in diverse industries that require superior memory performance to empower critical business decisions. Flagship products NVvault® and EXPRESSvault® enable customers to accelerate data running through their servers and storage and reliably protect enterprise-level cache, metadata and log data by providing near instantaneous recovery in the event of a system failure or power outage. HybriDIMM™, Netlist's next-generation storage class memory product, addresses the growing need for real-time analytics in Big Data applications and in-memory databases. Netlist holds a portfolio of patents, many seminal, in the areas of hybrid memory, storage class memory, rank multiplication and load reduction. Netlist is part of the Russell Microcap® Index. To learn more, visit [www.netlist.com](http://www.netlist.com).

## **Safe Harbor Statement**

This news release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements are statements other than historical facts and often address future events or the future performance of Netlist. Forward-looking statements contained in this news release include statements about Netlist's ability to execute on its strategic initiatives. All forward-looking statements reflect management's present expectations regarding future events and are subject to known and unknown risks, uncertainties and other factors that could cause actual results to differ materially from those expressed in or implied by any forward-looking statements. These risks, uncertainties and other factors include, among others: risks related to Netlist's plans for its intellectual property, including its strategies for monetizing, licensing, expanding, and defending its patent portfolio; risks associated with patent infringement litigation initiated by Netlist, such as its ongoing proceedings against SK hynix Inc., or by others against Netlist, as well as the costs and unpredictability of any such litigation; risks associated with Netlist's product sales, including the market and demand for products sold by Netlist and its ability to successfully develop and launch new products that are attractive to the market; the success of product, joint development and licensing partnerships, including its relationship with Samsung Electronics Co., Ltd.; the competitive landscape of Netlist's industry; and general economic, political and market conditions. These and other risks and uncertainties are described in Netlist's quarterly report on Form 10-Q filed on May 16, 2017, and subsequent filings with the U.S. Securities and Exchange Commission it makes from time to time. Given these risks, uncertainties and other important factors, undue reliance should not be placed on these forward-looking statements. These forward-looking statements represent Netlist's estimates and assumptions only as of the date made, and except as required by law, Netlist undertakes no obligation to revise or update any forward-looking statements for any reason.

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