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Crucial Releases NVDIMM Server Memory to Help Protect Companies from Data Loss

New server modules couple DRAM and NAND to back up valuable data in the event of a system power loss

Key Messages:

- NVDIMMs are a new persistent memory category. They use the system's memory bus to deliver significant increased application performance
- NVDIMMs combine the performance of DRAM with the persistence of NAND
- Ultracapacitor, in a 2.5" drive bay form factor, provides power to NVDIMMs during the backup operation
- System memory speeds start at 2133 MT/s with JEDEC-standard interface

Boise, ID— June 21, 2016 — Crucial, a leading global brand of memory and storage upgrades, today announced the availability of Nonvolatile DIMM (NVDIMM) server memory to help companies protect data in the event of a system power loss. Historically, companies have used uninterruptible power supplies, solid state drives (SSDs), mechanical hard drives (HDDs) or other devices to ensure the security of critical data. While this method of preserving critical data has been effective, the backup and restore times have been very long due to the latency and write times of the SSD and HDD. Today's applications such as relational databases, scale-out storage, data analytics, and in-memory databases require much faster backup and restore times.

Crucial NVDIMM server memory combines DRAM and NAND onto a single module, providing the performance of DRAM with the persistence of NAND. In the event of a power loss, the

NVDIMM will back up all DRAM data to the NAND while utilizing a backup power source, known as an ultracapacitor. The DRAM on the NVDIMM ensures critical data can be operated on from a low-latency memory space without the risk of losing it. The NAND on the module ensures that the contents of the DRAM are not lost during a power failure, making the DRAM persistent. When power is restored to the system, the data in the NAND is restored on the DRAM.

During normal operation, NVDIMMs perform identically to RDIMMs, and servers recognize them as such. Critical data such as transaction logs, meta-data, and database logs are written at the speed of DRAM, which for current NVDIMMs is at 2133 MT/s.

“NVDIMM is a persistent memory solution for companies who have valuable data they need to protect in case of a power outage,” said Michael Moreland, worldwide product manager, Crucial. “Combining DRAM and NAND, Crucial NVDIMMs safeguard data during power loss, remove I/O bottlenecks that hold servers back, and increase the performance of server applications.”

Crucial NVDIMMs and compatible ultracapacitors are available for purchase through select global partners. All Crucial memory is backed by a limited lifetime warranty*. For more information about Crucial server memory offerings, visit www.crucial.com/memory-server.

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About Crucial

Crucial is a global brand of Micron Technology, Inc. Crucial solid state drives (SSDs) and memory (DRAM) upgrades are compatible with over 100,000 new and old desktops, laptops, workstations, and servers. Available worldwide at leading retail and e-tail stores, commercial resellers, and system integrators, Crucial products enhance system performance and user productivity. Learn more at crucial.com.

About Micron

Micron Technology, Inc. is a global leader in semiconductor systems. Micron's broad portfolio of high-performance memory technologies—including DRAM, NAND and NOR Flash—is the basis for solid state drives, modules, multichip packages, and other system solutions. Backed by more than 37 years of technology leadership, Micron's memory solutions enable the world's most innovative computing, consumer, enterprise storage, networking, mobile, embedded and automotive applications. Micron's common stock is traded on the NASDAQ under the MU symbol. To learn more about Micron Technology, Inc., visit micron.com.

*Limited lifetime warranty valid everywhere except Germany, where warranty is valid for ten years from date of purchase.

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