

Cisco Unified Computing System Powered by the Intel Xeon Processor E7 Family Claim Nine World Records on Industry-Standard Benchmarks



Performance Brief
April 2011

Highlights

Nine World Records

- Cisco captures nine world records on industry benchmarks on the same day that Intel announces the Intel® Xeon® processor E7 family

Intel Xeon Processor E7 Family

- The processors provide power and reliability for business-critical solutions with data protection through pervasive encryption

Broad Range of Performance

- This world-record performance demonstrates the breadth of Cisco's product line and the way in which Cisco Unified Computing System™ can accelerate performance across the data center—including delivering raw computing power for individual servers, high-performance computing (HPC) grids, powering Java application servers, and the most complex virtualization and cloud-computing workloads

Broad Range of Server Products

- Cisco offers nine blade and rack-mount servers to power a range of workload requirements, all in the first converged system based on industry-standard, x86-architecture servers



As Intel announces the new top-of-the-line Intel® Xeon® processor E7 family for the most critical business needs, Cisco is first to demonstrate the full power of these processors by claiming nine world records on industry benchmarks.

For customers with demanding workloads, a need for scalability, and requirements for massive memory and I/O capacity, Cisco Unified Computing System™ has an ever-broadening portfolio of blade and rack-mount servers that can bring industry-leading performance in a converged infrastructure to your data center (Table 1).

Table 1. World-Record Performance

Server	Processor	Benchmark	Score
Cisco UCS C460 M2 High-Performance Rack-Mount Server	Intel Xeon processor E7-4870	SPECint®_rate_base2006	1030 Best x86 4-Socket Server
		VMware® VMmark™ 2.1	16.68@18 tiles Best Result of Any Server
		SPECComp®Lbase2001	727,635 Best 4-Socket Server
		SPECCompMbase2001	115,176 Best 4-socket Server
Cisco UCS C260 M2 Rack-Mount Server	Intel Xeon Processor E7-2870	SPECjbb®2005	1,335,019 bops Best 2-Socket Server
		SPECint_rate_base2006	526 Best x86 2-Socket Server
		SPECfp_rate_base2006	365 Best x86 2-Socket Server
Cisco UCS B230 M2 Blade Server	Intel Xeon Processor E7-2870	SPECCompLbase2001	378,522 Best 2-Socket Server
		SPECCompMbase2001	67,926 Best x86 2-Socket Server

Cisco Servers Powered by the Intel Xeon Processor E7 Family

Cisco's world-record results were established using two and four-socket servers powered by the Intel Xeon processor E7 family. The Cisco® UCS C460 High-Performance Rack-Mount Server supports four 10-core processors and up to 1 terabyte (TB) of main memory. The new Cisco UCS C260 M2 Rack-Mount Server supports two 10-core processors and up to 1 TB of main memory through Cisco Extended Memory Technology. The Cisco UCS B230 M2 Blade Server supports two 10-core processors and up to 256 GB of main memory (Figure 1).

Intel Xeon Processor E7 Family

The Intel Xeon processor E7 family delivers performance that is well suited for data-demanding workloads by delivering improved scalability and increased memory and I/O capacity. These processors help organizations adapt to rapidly changing short-term business demands, while addressing requirements for longer-term business growth. Advanced reliability and security features work to maintain data integrity, accelerate encrypted transactions, and increase availability of mission-critical applications.

Cisco Unified Computing System

While all vendors have access to the most powerful processors available

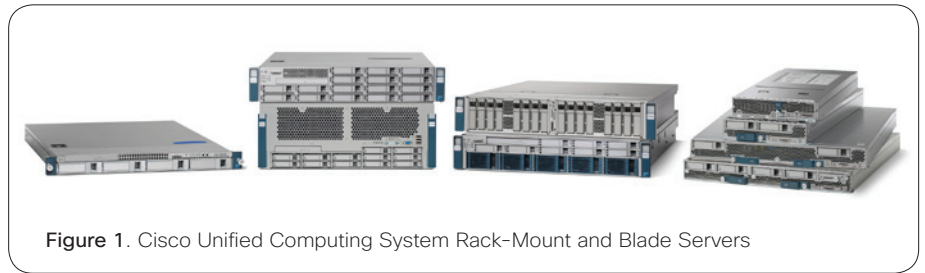


Figure 1. Cisco Unified Computing System Rack-Mount and Blade Servers

from Intel, only Cisco unleashes their power through the first converged data center platform that combines industry-standard, x86-architecture servers into a single cohesive system: Cisco Unified Computing System. The system's configuration is entirely programmable using unified, model-based management to simplify and speed deployment of enterprise-class applications and services running in bare-metal, virtualized, and cloud-computing environments. The system uses a unified fabric to support both network and storage I/O, while Cisco fabric extender technology brings the network directly to servers and virtual machines for increased performance, security, and manageability.

Performance That Matters

Business organizations understand that every vendor is able to set a performance record now and then – but setting nine records on the same day of a new processor launch is truly exceptional.

The benchmark results cited in this document demonstrate performance on key real-world server use cases,

including general-purpose computing, Java applications, high-performance computing, and complex virtualization and cloud-computing workloads. Customers can expect industry leadership from Cisco, and these results further put the industry on notice that Cisco is not just selling servers—it is re-inventing the server market.

For More Information

For more information about the Cisco Unified Computing System, visit <http://www.cisco.com/go/ucs>.

Disclosures

The performance results described in this document were obtained from detailed benchmark results available at <http://www.cisco.com/go/ucsatwork> as of April 5, 2011.

SPEC®, SPECfp, SPECint, SPECjbb, and SPECComp are registered trademarks of Standard Performance Evaluation Corporation. Comparative benchmark results are available at <http://www.spec.org>.

VMware VMmark is a product of VMware, Inc. Comparative benchmark results are available at <http://www.vmmark.com>.



Americas Headquarters
Cisco Systems, Inc.
San Jose, CA

Asia Pacific Headquarters
Cisco Systems (USA) Pte. Ltd.
Singapore

Europe Headquarters
Cisco Systems International BV Amsterdam,
The Netherlands

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at www.cisco.com/go/offices.

