

# Cisco Unified Computing System and Intel Xeon Processors: 50 World-Record Performance Results



Performance Brief  
November 2011

 Since its first customer shipment, Cisco Unified Computing System™ (Cisco UCS™) powered by Intel® Xeon® processors captured 50 world performance records, with results that were either first to market or exceed those set by vendors of existing systems, including Dell, HP, and IBM (Table 1).

**Table 1. World-Record Benchmarks Set by Cisco UCS**

World-Record VMware VMmark Benchmarks				
Benchmark	Cisco UCS Server	Publication Date	Result and Disclosure	Record as of Publication Date
VMware® VMmark™ 2.x	C460 M2	9/20/2011	<a href="#">35.06</a> @35 tiles	Number-one result of any server
	C460 M2	10/4/2011	<a href="#">18.00</a> @18 tiles	Number-one 4-socket server, 2-node result
	C460 M2	4/5/2011	<a href="#">16.68</a> @18 tiles	Number-one result of any server
	B200 M2	3/23/2011	<a href="#">7.17</a> @7 tiles	Number-one 2-socket server
	B200 M2	12/28/2010	<a href="#">6.51</a> @6 tiles	Number-one overall VMmark 2.0
VMware VMmark 1.x	C460 M1	9/7/2010	<a href="#">76.10</a> @51 tiles	Number-one server
	C460 M1	5/4/2010	<a href="#">73.82</a> @50 tiles	Number-one server
	B250 M2	4/6/2010	<a href="#">35.83</a> @26 tiles	Number-one 2-socket server
	B230 M1	10/19/2010	<a href="#">39.19</a> @27 tiles	Number-one 2-socket blade server
	B440 M1	7/27/2010	<a href="#">71.13</a> @48 tiles	Number-one blade server
	B200 M1	4/21/2009	<a href="#">24.14</a> @17 tiles	Number-one 2-socket server
	B200 M1	1/12/2010	<a href="#">25.06</a> @17 tiles	Number-one 2-socket server

World-Record Java-Based SPEC® Benchmarks				
Benchmark	Cisco UCS Server	Publication Date	Result and Disclosure	Record as of Publication Date
SPECjAppServer®2004	C250 M2	3/16/2010	<a href="#">5,185.45</a> SPECjAppServer2004 JOPS@Standard	Number-one 1-node 2-socket server
	B230 M1	9/8/2010	<a href="#">11,283.80</a> SPECjAppServer2004 JOPS@Standard	Number-one 2-node server
SPECjEnterprise™2010	B440 M2	9/30/2011	<a href="#">26,118.67</a> SPECjEnterprise EJOPS	Number-one x86-architecture server
	B440 M1	3/9/2011	<a href="#">17301.86</a> SPECjEnterprise EJOPS	Number-one overall server

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World-Record Java-Based SPEC Benchmarks (Continued)				
Benchmark	Cisco UCS Server	Publication Date	Result and Disclosure	Record as of Publication Date
SPECjbb™2005	C460 M1	3/30/2010	<a href="#">2021525</a> SPECjbb2005 bops, 126345 SPECjbb2005 bops/JVM	Number-one x86/64 4-socket server
	C260 M2	4/5/2011	<a href="#">1337210</a> SPECjbb2005 bops, 668605 SPECjbb2005 bops/JVM	Number-one 2-socket server
	B230 M2	9/30/2011	<a href="#">1,408,935</a> SPECjbb2005 bops, 704,468 SPECjbb2005 bops/JVM	Number-one 2-socket server
	B440 M2	9/30/2011	<a href="#">2,798,763</a> SPECjbb2005 bops, 699,691 SPECjbb2005 bops/JVM	Number-one 4-socket server
	B230 M2	6/15/2011	<a href="#">1395684</a> SPECjbb2005 bops, 697842 SPECjbb2005 bops/JVM	Number-one 2-socket server
	B230 M1	9/25/2010	<a href="#">1017141</a> SPECjbb2005 bops, 127143 SPECjbb2005 bops/JVM	Number-one x86/64 2-socket server
	B230 M1	9/7/2010	<a href="#">1015802</a> SPECjbb2005 bops, 126975 SPECjbb2005 bops/JVM	Number-one x86/64 2-socket server
	B200 M1	3/16/2010	<a href="#">624059</a> SPECjbb2005 bops, 156015 SPECjbb2005 bops/JVM	Number-one x86/64 2-socket server

World-Record SPEC Computing Benchmarks				
Benchmark	Cisco UCS Server	Publication Date	Result and Disclosure	Record as of Publication Date
SPECint®_rate_base2006	C460 M2	4/5/2011	<a href="#">1030</a>	Number-one x86 4-socket server
	C460 M1	3/30/2010	<a href="#">723</a>	Number-one x86/64 4-socket server
	C260 M2	4/5/2011	<a href="#">526</a>	Number-one x86 2-socket server
	B200 M2	3/15/2011	<a href="#">390</a>	Number-one x86 2-socket server
	B200 M2	3/16/2010	<a href="#">355</a>	Number-one x86/64 2-socket server
	B200 M1	4/21/2009	<a href="#">239</a>	Number-one x86/64 2-socket server
SPECfp®_rate_base2006	C460 M1	5/25/2010	<a href="#">549</a>	Number-one x86/64 4-socket server
	C260 M2	4/5/2011	<a href="#">365</a>	Number-one x86 2-socket server
	B200 M2	3/16/2010	<a href="#">248</a>	Number-one x86/64 2-socket server
	B200 M1	4/21/2009	<a href="#">194</a>	Number-one x86/64 2-socket server

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World-Record SPEC Computing Benchmarks (Continued)				
Benchmark	Cisco UCS Server	Publication Date	Result and Disclosure	Record as of Publication Date
SPECCompL®base2001	C460 M2	4/5/2011	<a href="#">727,635</a>	Number-one 4-socket server
	C460 M1	3/30/2010	<a href="#">607818</a>	Number-one 4-socket server
	B230 M2	4/5/2011	<a href="#">378,522</a>	Number-one 2-socket server
	B200 M2	3/15/2011	<a href="#">282771</a>	Number-one 2-socket server
	B200 M2	3/16/2010	<a href="#">278603</a>	Number-one 2-socket server
SPECCompM®base2001	C460 M1	3/30/2010	<a href="#">100258</a>	Number-one 4-socket server
	C460 M2	4/5/2011	<a href="#">115,176</a>	Number-one 4-socket server
	B230 M2	4/5/2011	<a href="#">67,926</a>	Number-one x86 2-socket server
	B200 M2	3/15/2011	<a href="#">52986</a>	Number-one 2-socket server
	B200 M2	3/16/2010	<a href="#">52314</a>	Number-one 2-socket server

World-Record Oracle Benchmarks				
Benchmark	Cisco UCS Server	Publication Date	Result and Disclosure	Record as of Publication Date
Oracle E-Business Suite	B200 M2	2/23/2011	Payroll <a href="#">422,535</a> Employees/Hr	Number-one medium-model payroll batch
	B200 M2	8/21/2010	Payroll <a href="#">581,846</a> Employees/Hr	Number-one extra-large-model payroll batch
	B200 M2	8/21/2010	Payroll <a href="#">368,098</a> Employees/Hr	Number-one medium-model payroll batch
	B200 M2	8/21/2010	Order-to-Cash <a href="#">185,643</a> Lines/Hr	Number-one medium-model order-to-cash

Other World-Record Benchmarks				
Benchmark	Server	Publication Date	Result and Disclosure	Record as of Publication Date
LS-Dyna	C460 M1	3/30/2010	<a href="#">41,727</a> seconds car2car	Number-one 4-socket server
LINPACK	B200 M2	3/16/2010	146.8 GFlops	Number-one 2-socket server

## Architecture Propels Performance

The architectural advantage of Cisco UCS contributes to the system's world-record-setting performance and the timeliness with which Cisco delivers its results. Cisco UCS is a single converged system whose configuration is entirely programmable through unified, model-based management to simplify and speed deployment of enterprise-class applications and services running in bare-metal, virtualized, and cloud-computing environments.

## First Converged System

The first converged system available anywhere, Cisco UCS combines industry-standard, x86-architecture servers with networking and storage access into a single management domain that incorporates both blade and rack-mount servers. The system is designed so that server, network, and storage access configuration can be programmed, and thus automated through the system's embedded management features. Customers tuning system performance can reproduce their adjustments rapidly and accurately on additional servers with click-of-the-mouse simplicity.

## Performance Breadth

Powered by Intel® Xeon® processors, Cisco UCS demonstrates performance breadth by setting records for raw CPU power, mission-critical applications, Java application servers, virtualization, cloud computing, and high-performance computing (HPC). While all vendors have access to the same powerful Intel Xeon processors, only Cisco delivers more of their power to increase application performance.

## Performance for Customer Applications

For customers, these results mean not only excellent application performance but also a rapid, automated configuration model that speeds application deployment, makes performance predictable, and increases IT productivity. The world records presented in Table 1 can help customers assess how Cisco UCS will perform for their mission-critical applications, while demonstrating how Cisco has emerged as a server-industry leader in only two years.

## For More Information

For the most up-to-date information about Cisco UCS performance, please visit <http://www.cisco.com/go/ucsatwork>.

For more information about Cisco UCS, please visit <http://www.cisco.com/go/ucs>.

## Disclosures

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VMware VMmark is a product of VMware, Inc. The results cited in this document were made available at <http://www.vmmark.com> as of the dates specified in Table 1.

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