IBM publishes leadership 2-processor score for SPECvirt_sc2010 benchmark

IBM System x3650 M4 demonstrates leadership performance for virtualization applications

March 6, 2012 ... IBM® continues to deliver leadership performance on the SPECvirt_sc™2010 benchmark with the publication of the overall highest score ever achieved by a system using 2 processors. The IBM System x®3650 M4 server delivered an overall performance score of SPECvirt_sc2010 2,158 @ 132 VMs. SPECvirt_sc2010 is the first-generation SPEC® benchmark for evaluating the virtualization performance of datacenter server consolidation.

The x3650 M4 was configured with the Intel® Xeon® Processor E5-2690 (2.9GHz with 20MB L3 cache per processor—2 chips/16 cores/8 cores per chip), 512GB of memory (1), 192 disk drives (73GB). The x3650 M4 ran Red Hat Enterprise Linux® 6.2 and Kernel-based Virtual Machine (KVM) hypervisor. (2)

The x3650 M4's score of SPECvirt_sc2010 2,158 @ 132 VMs beats all other 2-processors scores published so far. Notably, the x3650 M4's score is 76.7% higher than the highest-performing competitor's previous-generation, processor-based system—the HP ProLiant DL380 G7 with a score of 1,221 @ 78 VMs. (3)

The IBM System x3650 M4 is the IBM flagship, two-socket, 2U rack server optimized for performance and uptime for business-critical applications and cloud deployments. The flexible x3650 M4 features the following:

- Intel Xeon processors with up to 8 cores and up to 768GB of memory capacity for virtualization and other memory-intensive solutions.
- Optional slotless 10GbE NIC with IBM Virtual Fabric that delivers high performance for bandwidth-heavy workloads.
- Available with the IBM exclusive high-performance solid state drive technology.

Result referenced is current as of March 6, 2012. This SPECvirt_sc2010 result has been accepted by SPEC and is posted at http://www.spec.org/virt_sc2010/results/. View all results for SPEC benchmarks at http://www.spec.org/.

(1) The IBM memory option used in the benchmark is Samsung's Green DDR3 32GB LRDIMM.

(2) The x3650 M4 model using the Intel Xeon Processor E5-2690 is planned to be generally available March 16, 2012. The x3650 M4 as configured for this benchmark will be available March 16, 2012.

(3) Vendor system with VMware, Inc., ESX 4.1. View the report for this result at:
http://www.spec.org/virt_sc2010/results/res2010q4/virt_sc2010-20101019-00017-perf.html

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