

PRIMERGY Goes Quad to Double Performance

New Quad-Core Intel Xeon MP extends PRIMERGY headroom for advanced virtualization - Consolidation a snap with new thoroughbred PRIMERGY RX600 S4, an energy-efficient rack-mount server for the datacenter – New server achieved benchmark record

Munich, September 5, 2007 - New Quad-Core Intel® Xeon® MP processors introduced today in PRIMERGY RX servers from Fujitsu Siemens Computers, the leading European IT provider, provide near-double performance over previous models, coupled with new savings in energy-efficiency. Underlining Fujitsu Siemens Computers' commitment to the Dynamic Data Center, new PRIMERGY RX600 S4 rack-mount servers are ideally suited towards advanced virtualization, enabling further consolidation within the data center. The PRIMERGY RX600 S4 is the first server model from Fujitsu Siemens Computers to feature the Intel's first 64-bit Quad-Core Xeon® MP 7200 / 7300 processor series (codenamed Tigerton), providing top-level performance combined with particularly low power consumption. The new PRIMERGY RX600 S4 will go on sale in October.

In addition to performance gains, the switch to Intel Xeon MP quad-core processors further reduces the PRIMERGY RX600's already highly-efficient heat output per processor, therefore reducing energy consumption. With overheating a major cause of IT component failure, the new lower-heat-output servers also ease overall datacenter cooling needs.

Thanks to new quad-core processors and 128GB of maximum on-board memory – double the previous maximum amount – the PRIMERGY RX600 S4 delivers **a perfect consolidation platform ideal for virtual machine tasks**, also providing an ideal platform for high-end compute-intensive datacenter functions such as database server and ERP application (enterprise resource planning).

The fourth-generation PRIMERGY RX600, the S4, provides almost double the processing power but retains the same form factor, a compact 4U rack chassis, thanks to quad-core processors of up to 2.93GHz, and a dual 4MB Level 3 cache.

In line with its purpose as a thoroughbred for the data center, all components within the PRIMERGY RX600 S4 are fully redundant and hot-swappable. This means that server need not be powered down during maintenance, providing the minimized unplanned downtime required to run mission-critical applications such as databases and ERP systems.

The richly-specified PRIMERGY RX600 S4 delivers the highest levels of throughput and data availability to both LAN and SAN thanks to an 8-port SAS controller with RAID 5 (RAID on Motherboard) functionality, a 1067MHz frontside bus (FSB) and 4x onboard Gigabit Ethernet controllers, in addition to an optional battery back-up unit (BBU) for further high availability operation.

The space-saving 7U rack mount chassis accommodates up to 8 hot-plug 2.5-inch hard drives, and ship with Fujitsu Siemens Computers' iRMC (integrated Remote Management Controller) S2 Server Management Controller delivering comprehensive server management.

At-a-glance technical features of the new PRIMERGY RX600 S4

Processor / chipset:	1-4 Intel 72xx /73xx ≤ 2.93 GHz, ≤2x 4MB L3 cache; 1067 MHz FSB
Main memory:	4 Boards, 8 Slots each (total of 32 DIMMs offering a memory capacity of up to 128GB); DDR2 667 FBDIMM, 2-way interleaved, error-correction code (ECC) memory scrubbing and SDDC (Single Device Disable Code); memory mirroring and hot-spare
I/O slots:	4x PCIe x8 – 3x hot-plug / full length, 1x hot-plug / half-length; 3x PCIe x4 – 2x full-length, 1x half-length
Integrated controllers:	8-port SAS RAID (LSI 1078), 4x Gbit/s Ethernet (Intel 82575/Gilgal), iRMC S2
4U Rack unit:	8x 2.5" HDDs; 1x 5.25" for tape backup; slimline DVD; Fujitsu Siemens Computers Local View Display; 2x hot-swop fan modules accessible from front-side (2x 1+1 redundancy); 4x hot-swop fans for memory cooling, accessible from top (2x 1+1 redundancy); 1+1 redundant PSU (power supply unit) 1570W, 100V support.

Benchmark proven

A new SPECjbb2005 result on the new Fujitsu Siemens Computers PRIMERGY RX600 S4 server using the BEA JRockit JVM demonstrates the impressive performance that can be achieved combining latest x86-based hardware and leading software in the business oriented SPECjbb2005 benchmark.

The PRIMERGY RX600 S4 rack server using 4 Quad-Core Intel® Xeon® Processors X7350 (2.93GHz, 8MB L3 cache, 1067MHz system bus, codename Tigerton), 32GB of memory, one 73GB SAS disk drive, and running 8 instances of the BEA JRockit(R) 6.0 P27.4.0 (64-bit) Java Virtual Machine on Microsoft® Windows® Server 2003 Enterprise Edition (64-bit) achieved a result of 437412 business operations per second (SPECjbb2005 bops) and 42082 SPECjbb2005 bops/JVM.

This PRIMERGY RX600 S4 score is the highest SPECjbb2005 result on an 4-way server to date surpassing the currently leading 4-way result on IBM System p5 570 (1).

The new SPECjbb2005 result mentioned above has been submitted to SPEC. It will be publicly visible at <http://www.spec.org/jbb2005/results/jbb2005.html> after successful completion of the review.

A detailed description of the SPECjbb2005 benchmark can be found at <http://www.spec.org/jbb2005/> and in the following overview document http://extranet.fujitsu-siemens.com/vil/pc/vil/primergy/performance/benchmark_overview_specjbb2005.pdf

(1) IBM System p 570: 346742 SPECjbb2005 bops and 86686 SPECjbb2005 bops/JVM, using 4 IBM POWER6 Dual-Core processors (4.7GHz, 4 MB L2 cache), 32GB memory, running 4 instances of the IBM J2RE 1.5.0 (32-bit) IBM J9 2.4 AIX JVM.

Competitive benchmark results stated above reflect results published on www.spec.org as of September 5th, 2007. The comparison presented above is based on the best performing systems using x86-based processors with 4 chips.

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