

THE NEW POWER EQUATION



At COMMON's Annual Meeting in Nashville, Tennessee (April 2, 2008) IBM unveiled their new line of Power Systems™, the most significant midrange announcement since the birth of the AS/400 in 1988. The new Power Systems servers from IBM will incorporate POWER6™ processors, and support IBM i, Linux®, and UNIX® applications simultaneously on a single server system. The new Power Systems also feature PowerVM™ virtualization technology that supports up to 254 virtual partitions in a single system. Additionally, IBM's secure and integrated operating system, i5/OS®, will now be called "i" — signifying a simplified, streamlined experience for all "i" customers. These Power servers are available as preconfigured AIX editions, i Editions, or Linux editions; or they can be ordered a-la-carte and mix and match with AIX, i, and Linux on a single Power server.

IBM BladeCenter JS12

For a complete integrated business system, the BladeCenter JS12 Express blade server combined with a BladeCenter S chassis allows the small or mid-sized company to avoid increased spending and staffing requirements, but still enjoy outstanding

price/performance in a commercial IT environment; superior reliability, availability, serviceability (RAS) characteristics; and high energy efficiency.

IBM BladeCenter JS22

The exceptional price/performance in a virtualized environment; breadth of available applications; reliability, availability, serviceability (RAS) characteristics; energy efficiency; and leadership virtualization of the BladeCenter JS22 Express makes it a highly desirable blade server for organizations of any size. The JS22 Express will bring significant rewards to clients who want a durable server solution for consolidating multiple applications and servers into a single BladeCenter; transitioning from traditional rack servers to highly efficient blades.

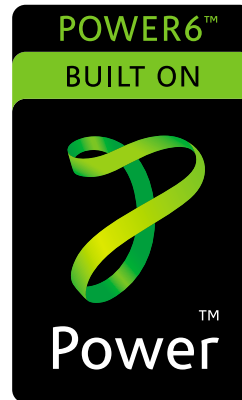
IBM Power 520 Express

The IBM Power 520 Express is a 1-, 2- or 4-core 4.2 GHz POWER6 processor-based entry server designed to deliver outstanding business value to smaller and mid-sized businesses while meeting the needs of mission-critical appli-

cations. It offers outstanding price/performance in a commercial IT environment; a breadth of available applications; superior reliability, availability, serviceability (RAS) characteristics architected to avoid, detect and recover from errors to achieve near-continuous availability.

IBM Power 550 Express

The Power 550 Express is a 2-, 4-, 6- or 8-core entry server utilizing 3.5 or 4.2 GHz processors and includes tremendous configuration flexibility to meet most capacity and growth requirements. The Power 550 Express offers a choice of operating environments in either a deskside or 4U rack-mount form factor. It is designed to deliver outstanding business value to medium-sized businesses with a choice of operating systems, proven virtualization capabilities, and support for innovative energy management technologies.



IBM Power 570

For mid to large transaction processing workloads, the IBM Power™ 570 server delivers outstanding performance, mainframe-

IBM Power Systems Summary	IBM BladeCenter JS12 Express	IBM BladeCenter JS22 Express	IBM Power 520 Express	IBM Power 550 Express	IBM Power 570	IBM Power 575	IBM Power 595
Max Processor Cores	4	4	8	8	16	32	64
Max Clock Rate	3.8 GHz	4.0 GHz	4.2 GHz	4.2 GHz	4.7 GHz	4.7 GHz	5.0 GHz
Max Random Access Memory	64 GB	32 GB	64 GB	256 GB	768 GB	256 GB	4 TB
Max Logical Partitions	20	40	40	80	160	254	254
Max I/O Drawers	-	-	8	8	32	1	30
Max I/O Slots	-	-	60	59	212	24	600
Max Internal Disk Bays	2	1	102	102	264	18	480
Max Internal DASD (not including SAS disks)	292 GB	146 GB	30.6 TB	30.6 TB	79.2 TB	(5.0 TB)	620.9 TB
Sample Benchmarks:							
LINPAK HPC (AIX 5.3)	-	-	53,600	104,000	239,400	466,900	1,028,000
rPerf (AIX 5.3)	14.71	30.26	31.48	68.2	134.35	*	553.01
SPECfp_rate2006 (Linux)	45.9	84.7	79.7	176	430	*	2110
CPW (IBM i 6.1)	7,100	13,800	8,300	18,000	76,900	*	*

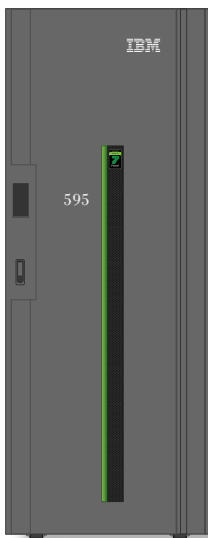
* Benchmarks not available at press-time

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inspired reliability, modular non-disruptive growth and innovative virtualization technologies. These features are integrated to enable the simplified management of growth, complexity and risk, in a complete business system combining all aspects of a company's IT infrastructure.

IBM Power 575

The IBM Power™ 575 cluster node is designed for organizations that require a highly scalable system with extreme parallel processing performance and dense, modular packaging. Use it in clustered configurations of as few as 32 processor cores or in world-class supercomputer configurations of thousands of processors. Densely packing up to 448 POWER6™ processor cores per frame, each one running at 4.7 GHz with innovative cooling features, the 32-core Power 575 cluster node is designed for speed and tuned for performance.



IBM Power 595

Equipped with ultra-high frequency IBM POWER6™ processors in up to 64-core, multiprocessing (SMP) configurations, the Power 595 server can scale rapidly and seamlessly to address the changing needs of today's enterprise data center. With advanced PowerVM™ virtualization, EnergyScale™ technology and Capacity on Demand (CoD) options, the Power 595 helps businesses take control of their IT infrastructure and confidently consolidate multiple UNIX®, IBM i (formerly known as i5/OS®) and Linux® application workloads onto a single system.



IBM Power VM

PowerVM™ is the family of technologies, capabilities and offerings that deliver industry-leading virtualization on all of the IBM POWER™ processor-based systems, to achieve server consolidation, mixed workloads, isolated environments, and dynamic resource requirements.



For more information about IBM Power Systems, visit http://www-03.ibm.com/systems/power/news/announcement/20080402_annnc.html.

*Much of this information was obtained from the April 2008 issue of IBM Canada's iSay newsletter. Special thanks to **Kathy Gregson**.*



The "Volcanic Ash" theory of advertising:

"Each time the volcano erupts, it lays down a thin layer of ash. Nothing much happens for a while, but eventually that ash becomes rich topsoil—perfect for growing juicy pineapples."

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