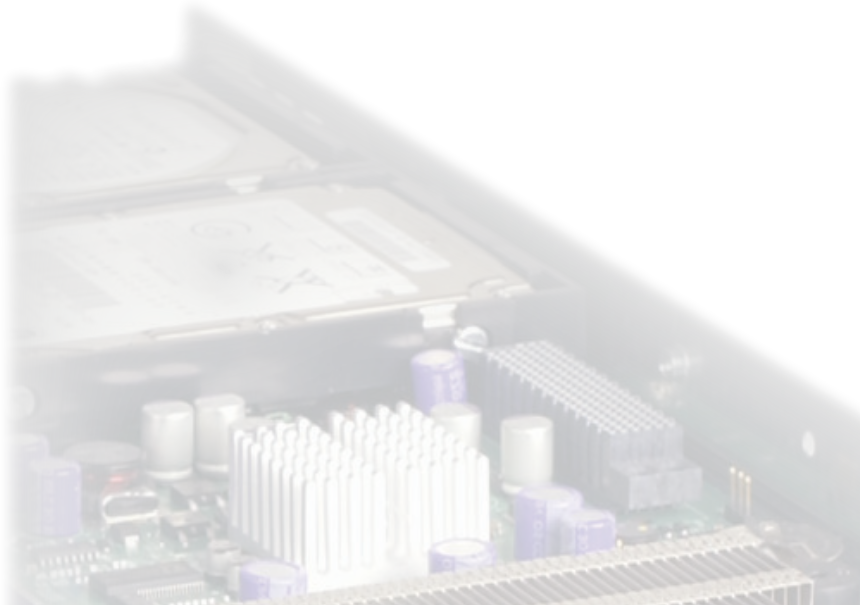


# IBM Power Servers

*The newest Power servers combine the features and functionalities of the System i and System p servers with industry-leading benchmarks and price /performance ratios*



- » Leverage new POWER6 processors running up to 5.0GHz, with integrated self-healing and virtualization features
- » Run IBM i™, AIX®, and Linux® operating systems simultaneously
- » Reduce operating costs with the ideal consolidation platform that includes functionalities designed to lower power consumption and cooling requirements





As an IBM Premier Business Partner, North American Systems has a staff of IBM-certified account executives and technical and support staff designed to help you get the most out of your Power system investment.

We provide configuration, implementation, and migration services for the Power Systems, and can assist with consolidation projects ensuring you receive the perfect combination of value, performance and reliability to match your business needs

- » server consolidation planning & design
- » systems sizing guidance and configuration services
- » performance analysis & optimization
- » business continuance guidance
- » capacity planning & load balancing services
- » Lotus®, WebSphere®, and Tivoli® software & services
- » document imaging & workflow
- » overnight parts availability
- » business software & ERP solutions
- » business intelligence solutions
- » security & firewall solutions
- » legacy application transformation & modernization
- » system conversion & data migration services

# Consolidate System i, AIX and Linux workloads on IBM's Power servers to reduce operating costs & complexity

## POWER6 Processors

IBM's newest dual-core 64-bit POWER6 CPUs feature an ultra high-frequency design with huge performance advantages over the previous generation of POWER5 processors.

- » 5.0GHz, 4.7GHz, 4.2GHz, 4.0GHz, 3.8GHz and 3.5GHz clock speeds available
- » integrated hardware acceleration; one for floating-point business applications, and another for vectorized and math modeling

## Reliability, Availability, serviceability

These new Power servers feature mainframe-inspired features designed to minimize disruption and maximize availability for mission-critical applications.

- » Chipkill™ ECC bit-steering memory & cache
- » processor instruction retry
- » instruction retry on alternate processor for enhanced error recovery
- » service processor with fault monitoring
- » concurrent firmware & OS updates
- » hot-pluggable disk bays, internal & external
- » dynamic processor deallocation
- » hot-pluggable & blind-swap slots
- » dynamic deallocation of PCI bus slots
- » redundant, hot-pluggable cooling & power



## Capacity on Demand

React without disruption to changing business needs with the capacity on demand features included with IBM Power servers. Processing power can be turned on instantly, used in blocks as small as 1 CPU, or 1GB of memory, in blocks as small as one minute, or used on a trial basis for up to a month.

## Virtualization

IBM's Hypervisor™ technology enables logical partitioning (LPAR) functionality that makes it possible to run simultaneous instances of System i, AIX and Linux workloads on one physical server. Dynamic LPAR and virtual LAN enable system resources to be provisioned on-the-fly to react to changing business requirements.



In addition, PowerVM™ editions expand virtualization capabilities, adding some of the following features, based on the version ordered:

- » Mirco-partitioning
- » Virtual I/O Server
- » PowerVM x86
- » Shared processor pool
- » Integrated Virtualization Manager
- » Multiple shared processor pools
- » Shared dedicated capacity
- » Live Partition Mobility

## Energy-Efficiency

The POWER6 CPUs have reduced much of the power leakage issues associated with high-frequency processors, and includes processor core nap, which dramatically drops power consumption when idle.

In addition, EnergyScale™ technology enables the dynamic monitoring of power consumption for trend analysis, enabling loads to be balanced, appropriate power caps to be implemented as necessary, and scheduling the system to go into power saver mode if appropriate, minimizing the carbon footprint of your data center in addition to the costs associated with power consumption and cooling costs.

Power Models	Power 595	Power 570	Power 550	Power 520	BladeCenter JS22	BladeCenter JS21
CPUs	8-64 4.2GHz or 5.0GHz	2, 4, 8, 12, or 16 3.5GHz or 4.2GHz	2, 4, 6, or 8 4.2GHz or 5.0GHz	1, 2, or 4 4.2GHz	4 x 4.0GHz	2 x 4.0GHz
Main memory	16GB - 4096GB	2GB - 768GB	1GB - 256GB	1GB - 64GB	1GB - 64GB	1GB - 64GB
Standard internal storage	4.8TB with 1 x I/O drawer	73.4GB	73.4GB	73.4GB	146GB	146GB
Maximum internal storage with optional I/O drawers	144TB	79.2TB	30.6TB	30.6TB	N/A	N/A