

# IBM POWER7 SYSTEMS

## System Overview

Computer Guidance partnered with IBM Corporation to ensure that our customers' business-critical information and processes are supported by a highly secure and reliable technology infrastructure. Our eCMS® solution is now deployed on the latest IBM Power Systems™ platform with the state-of-the-art POWER7® technology.

The POWER 710, 720, 730 and 740 Express servers offer eCMS customers the outstanding performance and benefits of POWER7 technology in compact rack-mount or tower packages. These high-density, cost-efficient servers minimize complexity and provide the memory capacity, internal storage options, I/O expandability and RAS features needed for demanding workloads in today's ever-changing business environments while driving productivity and energy efficiency.

POWER7 delivers consistent and predictable performance and impressive virtualization capabilities with lower costs and higher utilization. Data encryption capabilities to protect file systems, data and backup are integral part of the highly secure System i O/S with intuitive administration. IBM i total integrated operating environment includes DB2® database, security, web services, networking and storage management capabilities.

## System Highlights

- POWER7 technology with state-of-the-art performance
- Total integration with IBM i, AIX and Linux OS
- PowerVM™ — virtualization without limits
- POWER7 is systems management with automation
- EnergyScale™ for dynamic energy optimization
- PowerHA™ — resilience without downtime

*build with reliability*



**Three-year hardware maintenance is included with the Power7 systems**



Features	Benefits
POWER7 technology <ul style="list-style-type: none"> <li>▪ POWER7 performance</li> <li>▪ fully integrated system with the ability to run hundreds of virtual servers</li> <li>▪ massive parallel processing, throughput computing and analytics capabilities</li> </ul>	Consistent and predictable performance while providing the ability to reduce complexity, improve efficiency, manage changing workload demands and scale to desired levels
Workload optimization	Improved and accelerated performance
Extensive enhancements to IBM iO/S	Automated and intuitive administration
Outstanding energy efficiency	Maximized return on investment
Data protection and compliance	Reduced costs and increased flexibility



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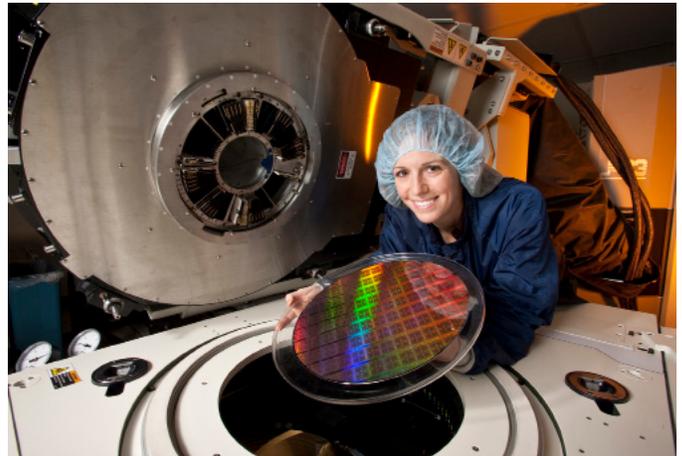
## **POWER7 technology with state-of-the-art performance —**

POWER7 processor-based systems offer balanced systems designs that automatically optimize workload performance and capacity and either at a system level or virtual machine level. The POWER7 processor system includes:

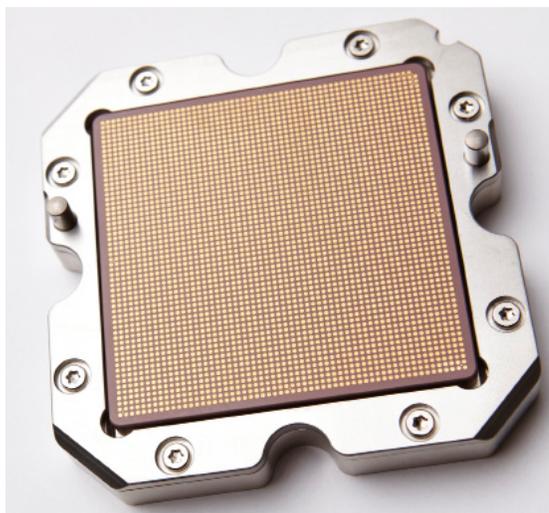
- TurboCore™ for maximum per core performance for data-bases
- MaxCore for incredible parallelization and high capacity throughput
- Intelligent threading technology to utilize more threads when workloads benefit
- Intelligent Cache technology to optimize cache utilization, flowing it from core to core
- Intelligent Energy to maximize performance dynamically when thermal conditions allow

**Total integration with IBM i, AIX and Linux OS —** POWER systems are optimized with the ability to securely run multiple eCMS and other applications on AIX, System i, and Linux operating systems on a single server — so you can manage fewer systems. IBM i integrates a trusted combination of DB2 database, security, web services, networking and storage management capabilities.

**Virtualization without limits —** PowerVM consolidates multiple workloads onto fewer systems to increase server utilization and cost reductions. PowerVM provides a secure and scalable virtualization environment for AIX, i, Linux applications built upon the advanced resiliency features and leading performance of the Power Systems platform.



*We live on a planet where data is exploding at an annual compound rate of 57% and nearly 6 terabytes of information are being exchanged over the internet every second. The average server in the average business runs at only 10% utilization. POWER7 servers are designed to help you drive up to 90% of utilization.*



**Power is management with automation —** With platform management technologies, businesses not only get a complete picture of their systems and how well they are operating, but also the tools to deploy, optimize and maintain these systems at maximum effectiveness and efficiency. These solutions result in optimized workload performance and energy efficiency and cost control.

**EnergyScale for dynamic energy optimization —** EnergyScale technology allows POWER7 processors to operate at a higher frequency for increased performance and adjusts the frequency dramatically, if workloads permit, to save energy while maintaining required application performance.

**Resilience without downtime —** PowerHA SystemMirror disk clustering solutions are available to ensure that your systems and businesses are running 24x7x365. These high availability solutions are designed to help protect critical business applications from outages: planned or unplanned.

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