



## IBM Power 570 and Power 595 for Oracle's JD Edwards EnterpriseOne

*Manageable, flexible, efficient solutions for large JD Edwards EnterpriseOne deployments*

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**IBM Power™ 570 and Power 595 with IBM i — the integrated, reliable and scalable platform choice for JD Edwards EnterpriseOne applications**

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**Self-managing systems delivering low total cost of ownership**

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**Secure, reliable, virus-resistant operating environment to reduce application outages**


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**Solutions from the IBM and Oracle alliance, adding value and helping to reduce risk**

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### **IBM Power Systems: The new Power equation for the new enterprise data center**

IBM Power™ Systems offerings unify IBM's successful integrated platform, IBM System i®, with its fast-growing UNIX® operating system platform, IBM System p®, to help you achieve new economies in your data center, while improving service delivery, energy efficiency and infrastructure resiliency. Get the options to dramatically optimize your infrastructure with leadership performance and uniquely modular and highly scalable blades, tower and rack servers — all built on the renowned IBM Power Architecture® technology. Power Systems servers support more than 15 000 IBM AIX®, Linux® and IBM i (formerly known as IBM i5/OS®) applications, and x86 Linux applications can run unchanged. And, you can share processor, memory and I/O across operating environments. IBM® Systems Director Active Energy Manager™ enables you to get more performance per watt, consolidate underutilized, energy-wasting servers and manage energy consumption. The IBM PowerVM™ family of technologies, capabilities and offerings delivers industry-leading virtualization on Power Systems servers. With these unique technologies, you can improve business responsiveness and operational speed by dynamically reallocating resources to applications as needed.



The Power Systems server line offers low-end to high-end computing power, providing a full spectrum of computing options to a client. JD Edwards EnterpriseOne applications can be deployed on any of the servers of the Power Systems line. Companies planning large JD Edwards EnterpriseOne deployments will be particularly interested in higher-end models of the Power Systems server line, the Power 570 and Power 595.

### **IBM Power 570**

For handling midsized to large transaction-processing workloads, the Power 570 server delivers outstanding performance, outstanding reliability, modular nondisruptive growth and innovative virtualization technologies. These features are integrated to enable the simplified management of growth, complexity and risk.

For serving midsized to large databases, the Power 570 provides a system designed for demanding, critical, back-end workloads. Demonstrating outstanding performance across multiple database solutions and multiple operating systems, the 570 shows its true heart and soul when challenged with a company's most treasured IT asset, the database.

The IBM Power 570 is a modular server available in four building-block, rack-mounted configurations. The system includes the industry-leading IBM POWER6™ technology and mainframe-inspired reliability, availability and serviceability (RAS) features as well as innovations such as IBM EnergyScale™ and PowerVM virtualization technologies. This innovative approach enables secure, nondisruptive growth, while maintaining outstanding performance and maximizing your investment.

### **IBM Power 595**

The Power 595 server is designed to help enterprises deploy the most cost-effective and flexible IT infrastructure while achieving the industry's best application performance and increasing the speed of deployment of new applications and services. As the most powerful member of the IBM Power Systems family, this server provides exceptional performance, massive scalability and energy-efficient processing for a full range of complex, mission-critical applications with the most demanding computing requirements.

Equipped with ultra-high frequency POWER6 processors in up to 64-core symmetric multiprocessor (SMP) configurations, the Power 595 server can scale rapidly and seamlessly to address the changing needs of today's data center. Extensive mainframe-inspired reliability, availability and serviceability (RAS) features in the Power 595 help ensure that mission-critical applications run reliably around the clock. Clients have the ability to upgrade their IBM POWER5™ 590 or 595 servers and know that their investment in IBM Power Architecture technology has again been rewarded.

The Power 595 provides a solid foundation on which to consolidate server infrastructure, reduce the complexity of systems administration and optimize computing resources. With extraordinary power, proven IBM technology and expansive growth potential, the Power 595 server is ready to take your business to the next level.

### **IBM Power Systems virtualization**

As you look for ways to maximize the return on your IT infrastructure investments, consolidating workloads onto a single larger system becomes an attractive proposition. PowerVM technology is the industry-leading virtualization platform for IBM POWER™ processor-based systems. IBM Power Systems servers coupled with PowerVM technology are designed to help you consolidate and simplify your IT environment. This combination can help you:

- Improve server utilization and sharing of I/O resources to reduce total cost of ownership and make better use of IT assets.
- Improve business responsiveness and operational speed by dynamically reallocating resources to applications as needed, to better match changing business cycles or handle unexpected surge in demand.
- Simplify IT infrastructure management by making workloads independent of hardware resources, thereby enabling clients to make business-driven policies to deliver resources based on time, cost and service-level requirements.

### **Application availability**

The Power 570 and 595 are designed with capabilities to deliver outstanding application availability and allow more work to be processed with less operational disruption. These capabilities include recovery from intermittent errors or failover to redundant components, detection and reporting of failures and impending failures, and self-healing hardware that automatically initiates actions to effect error correction, repair or component replacement. In addition, the Processor Instruction Retry RAS feature provides for the continuous monitoring of processor status with the capability to restart a processor if certain errors are detected. If required, workloads can be redirected to alternative processors, all without disruption to application execution. In combination with the optional IBM PowerVM Enterprise Edition offering with Live Partition Application Mobility, the Power 570 and 595 deliver near-continuous application availability.



## **IBM i**

Companies rely on an efficient IT infrastructure to support business-critical applications such as JD Edwards EnterpriseOne. They need to know that their systems and business processes are deployed to meet the highest service levels defined by their business units plus can be adapted to handle every new business opportunity. IBM i running on IBM Power Systems offerings offers a highly scalable and virus-resistant architecture with a proven reputation for exceptional business resiliency. Running applications under i has helped companies over many years to focus on innovation and delivering new value to their business, not just on managing their data center operations.

The i environment integrates a trusted combination of relational database, security, Web services, networking and storage management capabilities. It provides a broad and highly stable database and middleware foundation for efficiently deploying business-processing applications, with support for over 5000 solutions from over 2500 independent software vendors (ISVs). IBM i solutions are offered through an extensive, highly skilled worldwide network of IBM Business Partners that is backed by IBM's trusted services and support infrastructure.

IBM develops, fully tests and preloads the core middleware components of the i environment together up front, whereas on other platforms, operating system, database and middleware integration is done in the data center. The preintegration and testing of the i environment is a key factor in enabling companies to deploy applications faster and maintain them with fewer staff. Virtualization and workload management are also built into i, enabling you to run multiple applications and components together on the same system, driving up system utilization and delivering a better return on IT investments.

## **JD Edwards EnterpriseOne**

JD Edwards EnterpriseOne is an integrated applications suite of comprehensive enterprise resource planning (ERP) software that combines business value, standards-based technology and deep industry experience into a business solution with a low total cost of ownership (TCO). JD Edwards EnterpriseOne offers you a choice of 70 application modules to support a diverse set of business operations with one common database for a single, consistent version of your data. JD Edwards EnterpriseOne grows and expands with your business, thanks to its underlying architecture. Flexible and scalable, its one toolset design is built with open standards.

## Applications Unlimited and Lifetime Support

With JD Edwards EnterpriseOne, your technology investment is protected with a comprehensive, well-defined product road map, backed with the Oracle Lifetime Support and Applications Unlimited policies. Applications Unlimited is Oracle's plan to continue enhancing current application product lines while simultaneously developing the next-generation Fusion Applications. Customer input is driving innovations and enhancements for all future releases. Oracle continues to focus on ongoing upgrade innovations — delivering reduced downtime, shorter upgrade cycles, and proven upgrade paths and methodologies — to ensure that upgrades are now simpler and more efficient. In addition to enhancing existing applications, Oracle will also continue to support them. The Oracle Lifetime Support Policy further extends Oracle's support for its applications. Simple, predictable, and the most comprehensive policy available, Lifetime Support helps drive business success. This industry-leading policy from Oracle covers your entire technology stack, from database to middleware to applications. It puts you in control of your upgrade strategy so you can enjoy continued peace of mind, knowing that no matter which product release you're running, Oracle is there to support your business.

## JD Edwards EnterpriseOne configuration examples using IBM Power Systems

IBM has tested the performance of JD Edwards EnterpriseOne 8.12 in the IBM Oracle International Competency Center test labs in Denver. The configuration examples shown in Table 1 are based on the performance data gathered during these tests. These examples reflect a three-tier deployment of JD Edwards EnterpriseOne with the database, application logic and Java™ application server (JAS) functions all running under IBM i in separate logical partitions or on separate Power Systems servers as shown in Figure 1. (IBM WebSphere® Application Server software is the JAS in this configuration.) Other configuration options are possible. These sample configurations illustrate the server resources required but do not address all the requirements of a JD Edwards EnterpriseOne implementation.

### Database server

Active users	Power Systems model (cores)	Memory (in GB)	Disk drives (minimum)
500	570 4.7 GHz (2-core)	13	30
1000	570 4.7 GHz (3-core)	21	44
2000	570 4.7 GHz (6-core)	36	84
5000	595 5.0 GHz (14-core)	82	182
10 000	595 5.0 GHz (28-core)	158	357

**Application server**

Active users	Power Systems model (cores)	Memory(in GB)	Disk drives (minimum)
500	570 4.7 GHz (1-core)	8	2 x 73 GB drives RAID 1
1000	570 4.7 GHz (2-core)	14	2 x 73 GB drives RAID 1
2000	570 4.7 GHz (3-core)	27	2 x 73 GB drives RAID 1
5000	595 5.0 GHz (8-core)	65	2 x 73 GB drives RAID 1
10 000	595 5.0 GHz (14-core)	128	2 x 73 GB drives RAID 1

**Web server**

Active users	Power Systems model (cores)	Memory (in GB)	Disk drives (minimum)
500	570 4.7 GHz (1-core)	10	2 x 73 GB drives RAID 1
1000	570 4.7 GHz (2-core)	18	2 x 73 GB drives RAID 1
2000	570 4.7 GHz (4-core)	32	2 x 73 GB drives RAID 1

Table 1. JD Edwards EnterpriseOne three-tier configuration examples

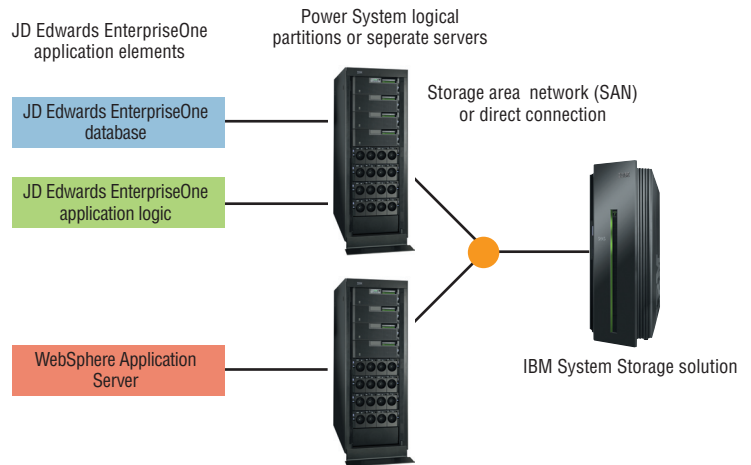


Figure 1. Example three-tier JD Edwards EnterpriseOne deployment on Power Systems servers

**Configuration considerations**

For the examples shown in Table 1, “Active users” is the number of JD Edwards EnterpriseOne Distribution application users, with half using advanced pricing. “Disk drives” refers to the minimum required number of drives and assumes 15 000 rpm fibre-channel-attached disk drives using RAID 5 (unless otherwise noted). The IBM System Storage™ DS8300 Turbo can be configured to meet these requirements and is our recommended storage solution. All example configurations shown in this document are for illustration purposes only and should not be used as sizing estimates for your environment.

## **Sizing JD Edwards EnterpriseOne for IBM Power Systems**

IBM and Oracle working together have developed a capacity-estimation capability to aid in designing an optimal configuration for each specific JD Edwards EnterpriseOne client environment. A detailed sizing estimate customized for your environment should be obtained from the IBM Techline Solution Sizing Team, accessible through your IBM or IBM Business Partner representative. You can download a questionnaire to start the sizing process from:

[ibm.com/erp/sizing](http://ibm.com/erp/sizing)

## **The IBM and Oracle alliance**

IBM and Oracle have been working together to solve clients' business problems since 1986. The two companies have over 19 000 common installations ranging from small to very large enterprises. The combination of Oracle's applications expertise with IBM's comprehensive portfolio of services, optimized hardware and storage has helped clients reduce their total cost of ownership and mitigate risk. IBM's service organization, IBM Global Business Services, is an Oracle Certified Advantage Partner and has a proven track record with over 5000 experienced professionals who have completed over 7500 Oracle projects. IBM and Oracle continually enhance the alliance to ensure they are helping companies respond quickly to constantly shifting market conditions and client demands. This is accomplished through the delivery of industry-specific hardware and software solutions, optimized to the client's environment.

## **For more information**

To find out more about joint solutions from IBM and Oracle, please contact an IBM sales representative at 1-866-426-9989, or visit us at:

[ibm.com/solutions/oracle](http://ibm.com/solutions/oracle)

For more information about the IBM Power Systems family, visit:

[ibm.com/systems/power](http://ibm.com/systems/power)

For more information about the IBM Power 570, visit:

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For more information about the IBM Power 595, visit:

[ibm.com/systems/power/hardware/595](http://ibm.com/systems/power/hardware/595)

For more information about JD Edwards EnterpriseOne, visit:

[www.oracle.com/applications/jdedwards-enterprise-one.html](http://www.oracle.com/applications/jdedwards-enterprise-one.html)



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When referring to storage capacity, total TB equals total GB divided by 1000; accessible capacity may be less.

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