



# IBM Power Systems with IBM i for Oracle's JD Edwards applications

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## Highlights

- Designed and built for your business critical JD Edwards EnterpriseOne deployments
  - Continued support for JD Edwards World with flexible options for migrating to JD Edwards EnterpriseOne
  - Data-centric design and optimization brings faster insight to the point of impact
  - Improved IT economics efficiently deliver business services with a scalable, open cloud
  - Joint IBM and Oracle testing, planning, and support deliver a robust enterprise-class computing platform for JD Edwards EnterpriseOne applications
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## Built with innovation that puts data to work

It's no secret that dynamic technology changes are rapidly remaking how organizations do business. The growing torrent of data from both within and outside your organization, from mobile employees and from customers and prospects, presents an unprecedented opportunity to gain valuable insights and apply these insights at the best point of impact to improve your business results.

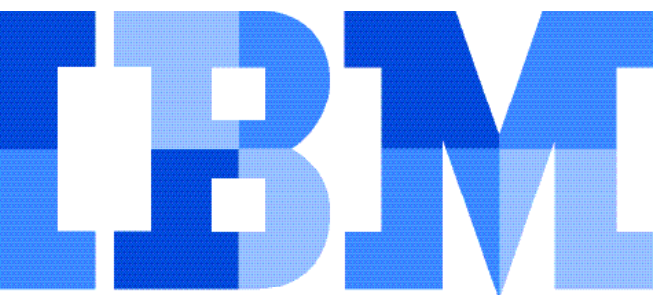
Making the transition to advanced capabilities requires an integrated infrastructure that supports your key IT initiatives, and business critical JD Edwards EnterpriseOne deployments. Our investments to bring optimized solutions in the areas of big data, analytics, cloud, and mobile access are designed to simplify and accelerate your journey to address today's market opportunities.

The newest generation of IBM® Power Systems™, with POWER9™ technology, is the first family of systems built with innovations that transform the power of big data and analytics, mobile, and cloud into competitive advantages in ways never before possible.

## Optimized for the rigorous demands of enterprise computing

IBM understands that applications and business processes have differing demands and that one size does not fit all. To ensure that technology aligns to business rather than the other way around, IBM offers a full range of Power® Systems servers each of which delivers leadership data capabilities, security, performance and scalability in its class. A totally integrated approach to the design, development, and testing of each and every Power server ensures the resiliency required for today's JD Edwards EnterpriseOne deployments.

All Power Systems server models include innovative reliability, availability and serviceability features that help avoid unplanned downtime — plus a wide range of open technologies that give you added flexibility to match business needs. And, with Enterprise Pools, Capacity on Demand, and Live Partition Mobility — Power Systems enterprise servers ensure businesses can keep their JD Edwards EnterpriseOne applications available, even as they add capacity to handle new and growing business demands.



## **Built on POWER, designed for data**

POWER® processor technology is a reduced instruction-set computing (RISC) architecture that spans applications from consumer electronics to supercomputers. POWER processors are at the forefront of both commercial and technical or high performance computing. So, in addition to excelling at commercial workloads like JD Edwards EnterpriseOne, POWER is also behind many of today's top supercomputers. And POWER9 is the first processor designed from the ground up to handle big data.

POWER processors provide the foundation for designing systems for both traditional workloads like JD Edwards EnterpriseOne and compute and data-intensive workloads like Web, analytics, mobile, and social applications. To achieve maximum performance, POWER processor-based systems are designed with optimization technologies that enable the system to tune automatically to specific workloads. Our latest generation of systems built with POWER9 technology offers balanced data-centric design to support the most challenging and complex data-hungry applications 2X faster than the prior generation:

- Gain faster insights with the POWER9 processor and smart acceleration enabled by CAPI (Coherent Accelerator Processor Interface) technologies such as FPGA accelerators for key workloads
- Achieve lower latency and smaller footprint with CAPI Flash
- Move data in and out of systems more quickly with twice the memory and I/O expansion
- Achieve greater speed and efficiency for database, transactional and other highly multi-threaded applications with transactional memory supported by 50 percent more cores and 2x the number of simultaneous threads per core

## **Integrated and easy-to-deploy**

A totally integrated approach to the design, development, and testing of each and every IBM Power Systems server ensures that they are simple to deploy and highly reliable as a foundation for JD Edwards EnterpriseOne applications. IBM Power Systems offers thousands of popular industry applications from ISVs running on a choice of IBM i, Linux®, and AIX® operating systems.

IBM offers a full range of affordable Power Systems servers—from the highly scalable enterprise models to the powerful scale-out models—each of which delivers leadership performance and scalability in its class.

For small to medium sized deployments of JD Edwards EnterpriseOne IBM offers the IBM i Solution Edition for JD Edwards, based on the Power Systems S924 server. This specially priced offering is designed to help reduce the cost,

complexity and risk of deploying a JD Edwards EnterpriseOne solution.

## **The IBM and Oracle alliance**

Since 1986, Oracle and IBM have been providing customers with compelling joint solutions, combining Oracle's technology and application software with IBM's complementary hardware, software and service solutions. More than 100,000 joint clients benefit from the strength and stability of the Oracle and IBM alliance<sup>1</sup>, which offers technology, applications, services, and hardware solutions that mitigate risk, boost efficiency, and lower total cost of ownership.

IBM is a Platinum Partner in the Oracle Partner Network, delivering the proven combination of industry insight, extensive real-world Oracle applications experience, deep technical skills and high performance servers and storage to create a complete business solution with a defined return on investment. From application selection, purchase and implementation to upgrade and maintenance, we help organizations reduce the total cost of ownership and the complexity of managing their current and future applications environment while building a solid base for business growth.

## **IBM i - Integrated operating system, database and middleware, built for business**

For many years, IBM i running on Power servers has helped companies to focus on innovation and deliver new value to their business, rather than diverting money and people to manage their data center operations. When paired with the latest Power platform, IBM i applications such as JD Edwards EnterpriseOne get world class performance plus dynamic infrastructure flexibility, and modern capabilities with the opportunity to lower operations costs.

IBM develops, fully tests and preloads the core middleware components of IBM i together upfront, whereas on other platforms, operating system, database and middleware integration is done in the data center. The factory integration and testing of IBM i is a key factor in enabling companies to deploy applications faster and maintain them with fewer staff. The built-in virtualization, including workload management, enables clients to run multiple applications together in a single instance of IBM i, driving up system utilization, simplifying the IT environment and delivering a better return on IT investments.

IBM i integrates a trusted combination of a DB2 relational database, industry leading security, standards based internet technology, networking and storage management capabilities. These provide an excellent foundation for efficiently deploying business applications, supporting 3,000 solutions from more

than 2,500 ISVs. IBM i solutions are offered through an extensive, highly skilled worldwide network of IBM Business Partners, backed by IBM's trusted service and support infrastructure.

### **JD Edwards EnterpriseOne applications**

Oracle's JD Edwards EnterpriseOne is an integrated applications suite of comprehensive enterprise resource planning software that combines business value, standards-based technology that is flexible and configurable, and deep industry experience into a business solution with a low total cost of ownership.

The JD Edwards EnterpriseOne ERP software suite offers a choice of databases and deployment options, including on-premises, private cloud, public cloud or hybrid cloud for maximized flexibility. With over 80 application modules, end-user reporting, an array of out-of-the-box mobile applications, and personalization capabilities, the JD Edwards EnterpriseOne solution can transform your business.

### **JD Edwards World applications**

Oracle's JD Edwards World applications continue to be certified with the latest releases of IBM i so all the benefits and advantages of deploying Power Systems servers with the latest POWER8 technology are available to clients using JD Edwards World applications. And for JD Edwards World clients looking to migrate to JD Edwards EnterpriseOne applications, IBM PowerVM™ virtualization technology allows them to run both JD Edwards World and JD Edwards EnterpriseOne applications simultaneously on the same server—making migration to the new applications as smooth as possible.

### **Power Systems Software**

IBM offers a full range of IBM Power Systems Software™ technologies that enable businesses using JD Edwards EnterpriseOne to fully exploit Power Systems servers. Designed and optimized specifically for Power Systems, IBM's offerings include IBM PowerVM® virtualization software, IBM PowerHA® software for high availability, PowerVP™ for performance monitoring, PowerVC™ for advanced virtualization management, and IBM Systems Director with IBM Active Energy Manager for platform and energy management. IBM's integrated approach to developing the systems and software together enables high system utilization, high resiliency and simplified management.

### **PowerVM virtualization**

IBM PowerVM provides the industrial-strength virtualization solution for IBM Power Systems servers that run JD Edwards EnterpriseOne workloads. Based on more than a decade of evolution and innovation, PowerVM represents the state of the

art in enterprise virtualization and is broadly deployed in production environments worldwide by most Power Systems owners.

The IBM Power Systems family of scale-out and enterprise (scale-up) servers includes proven workload consolidation platforms that help clients control costs while improving overall performance, availability and energy efficiency. With these servers and IBM PowerVM virtualization solutions, an organization can consolidate large numbers of applications and servers, fully virtualize its system resources, and provide a more flexible, dynamic IT infrastructure. In other words, IBM Power Systems with PowerVM deliver the benefits of virtualization without limits.

PowerVM also offers a secure and resilient virtualization environment, built on the advanced RAS (reliability, availability and serviceability) features, extreme scalability and leadership performance of the IBM Power Systems platform, based on the outstanding Power processors.

### **PowerHA – resiliency without downtime**

Smarter computing by nature requires businesses to raise their services delivery levels, fueling 24x7 high availability demands for their applications and IT infrastructure. PowerHA SystemMirror for IBM i and AIX is a high availability clustering solution for both data center and multisite resiliency. PowerHA is designed to protect JD Edwards EnterpriseOne business applications from outages of virtually any kind, helping ensure round-the-clock business operations.

The best high availability and disaster recovery plans involve an integrated approach to resiliency spanning across applications, operating systems, servers and storage. That's why PowerHA software offers deep integration and optimization between PowerHA SystemMirror software and IBM i and AIX.

### **IBM PowerVC Virtualization Center**

PowerVC is an advanced virtualization management offering, built on OpenStack, that provides simplified virtualization management for IBM i, AIX and Linux virtual machines (VMs) running on IBM Power Systems. PowerVC is designed to improve administrator productivity and simplify the management of VMs and LPARs on Power Systems servers. PowerVC provides the foundation for Power Systems scalable cloud management, including integration to higher-level cloud managers based on OpenStack technology. PowerVC helps JD Edwards EnterpriseOne customers using Power Systems servers to lower their total cost of ownership with a simplified user experience that allows simple deployment and movement of workloads and policies to maximize resource utilization.

## **Sizing and capacity planning for JD Edwards applications on Power Systems servers**

Working together, IBM and Oracle have developed a capacity-estimation capability to aid in designing an optimal configuration for each specific JD Edwards EnterpriseOne or JD Edwards World client environment. A detailed sizing estimate customized for your environment should be obtained from the IBM Digital Techline Center, accessible through your IBM or IBM Business Partner representative. You can download a questionnaire to start the sizing process from: [ibm.com/partnerworld/wps/servlet/ContentHandler/techline/FAQ00000750](http://ibm.com/partnerworld/wps/servlet/ContentHandler/techline/FAQ00000750)

## **For more information**

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

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

For more information about IBM Power Systems and Oracle software product support, visit:

[ibm.com/solutions/oracle/us/en/index/powersystems.html](http://ibm.com/solutions/oracle/us/en/index/powersystems.html)

For more information about the IBM Power Systems family, visit: [ibm.com/powersystems](http://ibm.com/powersystems)

For more information about the IBM i Solution Edition for JD Edwards, access the following:

[ibm.com/systems/power/hardware/solutioneditions/ibmi/](http://ibm.com/systems/power/hardware/solutioneditions/ibmi/)  
[ibm.com/common/ssi/cgi-bin/ssialias?infotype=SA&subtype=WH&htmlfid=ORW03027USEN](http://ibm.com/common/ssi/cgi-bin/ssialias?infotype=SA&subtype=WH&htmlfid=ORW03027USEN)

For more information about JD Edwards EnterpriseOne applications, visit:

[oracle.com/us/products/applications/jd-edwards-enterpriseone/overview/index.html](http://oracle.com/us/products/applications/jd-edwards-enterpriseone/overview/index.html)

For more information about JD Edwards World applications, visit:

[oracle.com/us/products/applications/jd-edwards-world/overview/index.html](http://oracle.com/us/products/applications/jd-edwards-world/overview/index.html)

**IBM Power Systems**  
White Paper

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