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## Highlights

- Scale and grow PeopleSoft applications and data with confidence
  - Benefit from mission-critical reliability of IBM DB2 for z/OS
  - Optimize resources and help lower the cost of computing for PeopleSoft deployments with the IBM z Systems specialty engines
  - Simplify IT operations with advanced virtualization, workload support and operations management capabilities
  - Minimize network security vulnerabilities and reduce latency
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# IBM z Systems running DB2 for z/OS with Oracle PeopleSoft applications

*Put z Systems to work for you*

Today, enterprises require a trusted infrastructure that is dynamic, scalable and flexible enough to support both mission-critical work and the development and deployment of new applications. This infrastructure must help decision makers to use data, a company's most valuable asset, with insight rather than hindsight, and assist in using IT to gain a competitive edge.

The IBM® z13™ is the first of a new generation of z Systems™, designed for digital business and the mobile economy. z13 can help deliver advanced performance, security, resiliency, availability and virtualization for a high quality of service. New economic efficiencies allow the z13 to offer more throughput and capabilities with less impact to the IT budget. Designed for larger enterprises, the z13 offers massive scalability for secure data serving, high-volume transaction processing and large-scale consolidation.

The z13 features 22 nm processor technology and supports simultaneous multi-threading for Linux® and Java™ workloads. It helps deliver outstanding transaction processing and data serving performance. The z13 offers excellent economies of scale, supporting up to 141 configurable cores and a more intelligent and resilient I/O infrastructure for more efficient access to critical data.

It can support up to 10 TB of memory, which can help reduce latency and lower CPU cost, thus improving operational efficiency for application server and Java applications by allowing larger heaps without a corresponding increase in paging.



For example, large memory can provide larger PeopleSoft IBM DB2® buffer pools, reducing I/O, improving overall response times and increasing transaction throughput rates. The z13 is ideally suited for consolidating large-scale distributed environments and the introduction of new in-memory workloads.

The IBM z13s™, the newest member of the IBM z Systems family, is designed as an entry-level enterprise server for any growing business that is looking to use z Systems technologies' qualities of service, flexibility and performance.

As environmental concerns raise the focus on energy consumption, the z13 and z13s can promote energy efficiency. Their design helps to dramatically reduce energy consumption and save floor space by consolidating workloads into a simpler, more manageable and efficient IT infrastructure.

### **Flexible connectivity**

The z13 uses industry standard technology to support communications, networking and cryptographic capabilities to help increase scale, addressability and granularity as well as reduce energy consumption. The Fiber Channel Protocol/Fiber Connectivity (FCP/FICON) links help improve I/O and DB2 transactional latency to reduce elapsed time for some batch jobs. And the z13 is the first system to use a standards-based approach for enabling Forward Error Correction (FEC) for a complete end-to-end solution for longer distances with more reliability.

### **IBM z Systems virtualization technology**

During spikes in demand, the z13 platform can quickly redistribute system resources and scale up, scale out, or both in a way that can make the difference between flawless execution or costly, slow response times and system crashes.

### **Specialty engines for PeopleSoft offer more choices**

The z Systems Integrated Information Processor (zIIP) engine offers PeopleSoft clients an opportunity to significantly reduce the total cost of ownership (TCO) for their database workloads as well as improve resource optimization and help with the integration of data across the enterprise. The zIIP can be used in the PeopleSoft client environment in a number of ways.

No changes are required for PeopleSoft applications or PeopleTools software to use the zIIP specialty engine. Most PeopleSoft and IBM DB2 for z/OS® clients have been using zIIP engines since they have been available. Examples of PeopleSoft workloads that have benefited organizations using zIIP engines include View Paycheck in HR/Payroll and nVision reporting in Financials.



The use of zIIP can help clients save money in two ways. First, the cost of the zIIP processors themselves is significantly less than general purpose processors on a z Systems server. Second, there are no associated software costs for the zIIP engines.

Using zIIP processors to execute eligible work can lower the utilization of general purpose processors. With this reduction,

organizations can create new work (such as a new PeopleSoft application or module) or allow more work to be done on the existing processors.

It might also be possible to reduce software costs by deploying zIIP technology, which can reduce processor consumption (as measured in millions of service units, or MSU) without impacting the throughput and performance of DB2.

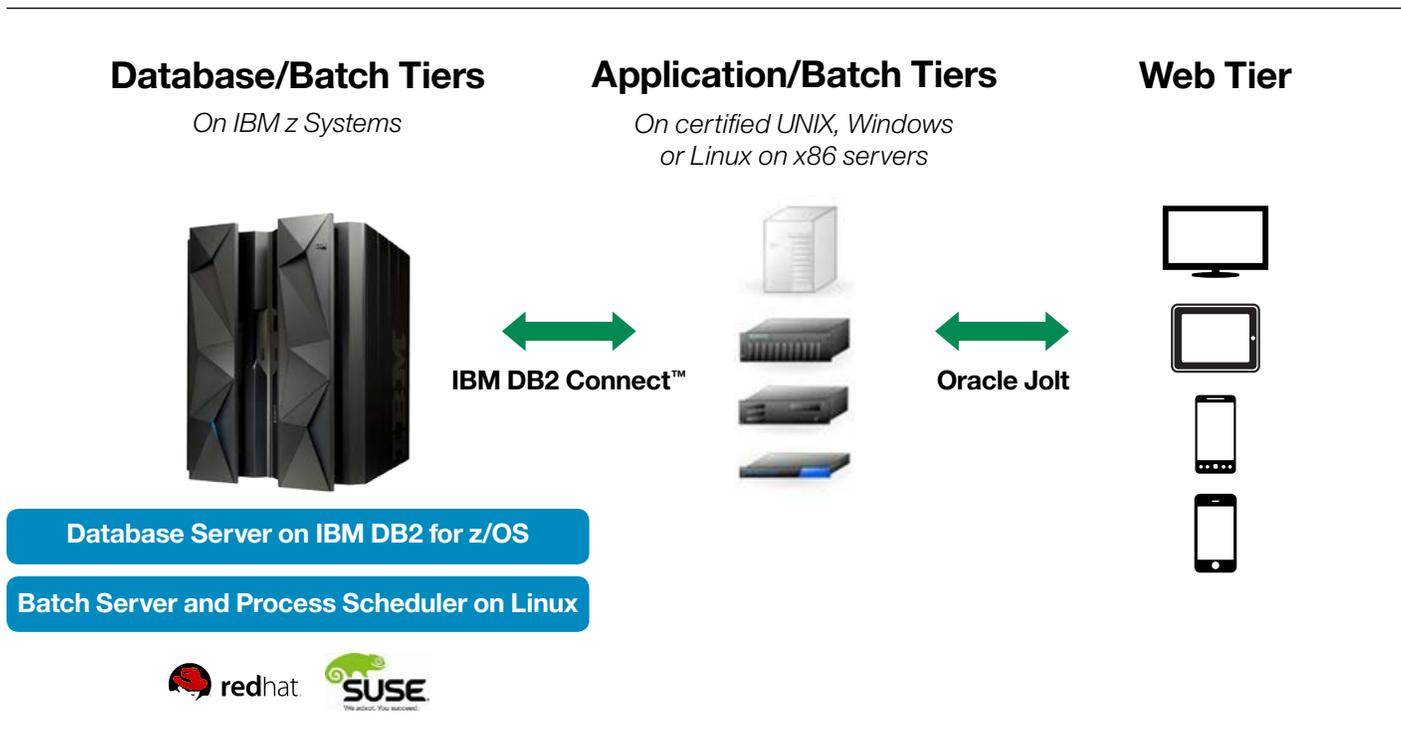


Figure 1: PeopleSoft applications deployed with z Systems

The zIIP is designed to support and run data and transaction processing and network workloads. It can also help organizations consolidate these workloads onto z Systems in a more cost-effective manner. Workloads eligible for the zIIP include remote connectivity to DB2 to help support the following workloads:

- Business Intelligence (BI)
- Enterprise Resource Planning (ERP)
- Customer Relationship Management (CRM)
- Extensible Markup Language (XML) applications

z/OS has additional capabilities for using zIIPs. DB2 utilities sorting fixed-length records using the IBM memory object sorting technique can have a portion of the workload redirected to a zIIP, when one is available. In addition to supporting remote connectivity to DB2, the zIIP also supports DB2 long-running parallel queries—a workload integral to business intelligence and data warehousing solutions.

IBM Scalable Architecture for Financial Reporting (SAFR) is a highly efficient and scalable business intelligence reporting solution that can be enabled for the zIIP. The zIIP also supports IPSec processing, including the use of the zIIP as an encryption engine, providing highly secure connections for the enterprise. In addition, zIIP supports select z/OS Global Mirror disk copy service functions.

## **The Integrated Facility for Linux (IFL)**

PeopleSoft customers who choose to run PeopleSoft Batch Server on Linux for z Systems can benefit from the lower cost of specialized IFL engines. PeopleSoft batch workloads that use Linux on z Systems also qualify to use the zIIP offload facilities for their DB2 access and processing.

Figure 1 illustrates the architecture used when deploying PeopleSoft applications with IBM z Systems.

## **Manage energy usage**

Power and cooling considerations are part of any IT budget plan. As energy prices rise and utilities restrict power usage, it is important to review the role of the server in balancing IT spending. z Systems can help control energy usage in the data center. A static, power-saving mode turns off engines that are not in use and the query max potential power feature can help with the management of total data center energy usage.

## **PeopleSoft applications**

PeopleSoft applications deliver market-leading human resources (HR), financial and supply chain functionality that can help organizations increase productivity, accelerate business performance and lower cost of ownership.

## PeopleSoft Fluid UI

Even the most feature-rich applications deliver no value if they are not used. Ensuring you have applications that are intuitive to use is of the utmost importance to the PeopleSoft development team. Intuitive applications are a necessity in order to meet the expectations of today's users. This goes beyond a simplified user experience and includes solutions that are optimized for mobile platforms and allow users to work anywhere, anytime. The cornerstone of Oracle's ability to deliver intuitive-to-use PeopleSoft applications is the PeopleSoft Fluid User Interface (UI).

The PeopleSoft Fluid UI, now included in PeopleSoft 9.2, provides an intuitive and responsive user experience that is optimized across multiple platforms including mobile phones, tablets and laptops. Many new features and functions take advantage of the PeopleSoft Fluid UI to provide employees, managers and executives with a familiar native user experience that helps maximize productivity and effectiveness while reducing the need for training.

## Improved user engagement

The PeopleSoft Fluid UI delivers a brand new PeopleSoft navigation paradigm that includes tiled home pages and a new navigation bar that presents information in a manner similar to consumer mobile applications. Cash managers, procurement operations, project managers and others will benefit from the easy-to-use role-based home pages and improved navigation model. This general familiarity and instant access to key areas of PeopleSoft drives greater user adoption.

## Greater productivity

Fluid UI enables managers to unify and approve HR transactions such as expenses, absences and promotions through any device, helping quickly improve productivity. Informed financial approvals and procurement transactions such as cash flow management, expense reporting and requisitioning can be completed using a variety of devices when the business requires it, rather than only when the decision maker is in the office.

## Enhanced decision-making

Managers are not always in front of a computer when decisions need to be made. Using PeopleSoft Fluid UI, managers can view and analyze real-time financial, project and procurement data remotely on mobile devices to help make strategic decisions quickly, all based on the latest relevant information. Pivot grids and visualization options provide the most current data and enable exceptions to be reviewed and processed directly. Informed decisions can be made using real time data that's easily available with Fluid UI.

## Anywhere, anytime access

Employees can complete tasks such as entering time, completing expense reports and requesting absence reports, all from a mobile device. Whether they are riding a train to the office, watching a sporting event or sitting on the patio at home, they have the ability to work on their schedule, regardless of their location. Meanwhile, regardless of their location, managers can also take advantage of mobile features, including reviewing time exceptions, managing team absences, monitoring cash positions and reviewing supplier performance. The responsive design of the Fluid UI provides flexibility for employees and managers alike to work on their terms from wherever they are.

## PeopleSoft Selective Adoption

While the Fluid UI enhancements now available in PeopleSoft 9.2 applications are clearly the most visible to users, an even bigger benefit to customers can be realized from the PeopleSoft Selective Adoption model, which fundamentally changes how customers realize value from their PeopleSoft applications. The latest updates to PeopleSoft applications provide a range of enhancements, including transaction simplification, embedded analytics and compliance support. The PeopleSoft Selective Adoption model, enabled by the PeopleSoft Update Manager (PUM), makes these latest enhancements available to PeopleSoft 9.2 customers at the time of their choosing. Customers no longer need to wait for a major upgrade to reap the rewards from new enhancements delivered by PeopleSoft. Selective Adoption makes new enhancements available in Update Images that are released several times per year. At a time that is right for the customer, new enhancements can be rolled out to their users without an upgrade being required; this significantly lowers the total cost of ownership and accelerates the delivery of valuable features to users.

As part of the Oracle Applications Unlimited program, PeopleSoft applications will continue to be enhanced, protecting and extending the value of your software investment.

IBM z Systems solutions are designed to add value to PeopleSoft solutions, including the functions that are introduced in the latest version of PeopleSoft applications. PeopleSoft applications on z Systems include the following benefits:

- Optimizes performance by deploying powerful database and batch hardware engines that are available on z13 and z13s systems
- Reduces total cost of ownership (TCO) by using the specialized zIIP processors with DB2 and IFLs
- Provides high levels of security and quality of service

## Sizing and capacity planning for PeopleSoft applications on IBM z Systems

By working together, IBM and Oracle have developed a capacity-estimation capability to aid in designing an optimal configuration for each specific PeopleSoft client environment.

You can obtain a detailed sizing estimate that is customized for your environment from the IBM Techline ISV Solution Sizing Team, which is accessible through your IBM or IBM Business Partner representative. You can download a questionnaire to start the sizing process at [ibm.com/partnerworld/wps/servlet/ContentHandler/techline/FAQ00000750](http://ibm.com/partnerworld/wps/servlet/ContentHandler/techline/FAQ00000750)

## The IBM and Oracle alliance

Since 1986, Oracle and IBM have been providing clients with compelling joint solutions, combining Oracle's technology and application software with the complementary IBM hardware, software and services solutions. More than 100,000 joint clients benefit from the strength and stability of the Oracle and IBM alliance. Through this alliance, Oracle and IBM offer technology, applications, services and hardware solutions that are designed to mitigate risk, boost efficiency and lower total cost of ownership.

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## For more information

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

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Armonk, New York 10504

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