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## Highlights

- Customers can now take advantage of IBM Power System's enterprise-grade attributes—flexibility, resiliency and performance—to run SAP HANA
  - Power Systems users can now take advantage of SAP HANA based applications, including S/4HANA, without having to implement a separate technology platform
  - SAP HANA on POWER gives users faster data access, supporting advanced business insights while also creating the potential for greater openness and innovation
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# SAP HANA on IBM Power Systems

*A combined offering that supports faster transactions, better data management, openness and innovation*

SAP HANA is now fully supported on IBM® Power Systems™, IBM's leading platform for big data, delivering the same enterprise-grade attributes that the industry expects from Power Systems: flexibility, resiliency and performance. This comes to a market that has been limited to only one platform, x86, and very strict configuration choices.

Power Systems is designed to help enterprise clients with their mission-critical, in-memory analytics to drive real-time business insights and lower costs. The offering, which exploits well-established POWER benefits and utilizes the SUSE Linux operating system, provides the highest flexibility, resiliency, and performance in the market.

### Flexibility

**Adapts easily** with best-in-class virtualization and capacity on demand, enabling growth without having to buy and provision a new server. SAP HANA can run collocated with traditional SAP workloads on available POWER8 and storage assets.

### Resiliency

**Maximum availability**—intelligent memory protection to detect and correct potential faults before the application sees them.

### Performance

**Accelerate insights** with well-balanced system architecture for in-memory data processing. Massive multithreading and vectorization supported by high-bandwidth memory. Long evidence of throughput leadership in commercial workloads.



SAP HANA on Power utilizes the Tailored Datacenter Integration (TDI) model, introduced by SAP SE giving customers the flexibility to integrate the solution into their existing environment. IBM and SAP SE, two long-time collaborative partners, have made this offering available to provide a more flexible and powerful infrastructure, helping customers to further capitalize on the natural benefits they already get from SAP HANA.

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*“By deploying SAP HANA on IBM Power Systems, we have access to up-to-the-second customer insights and sales figures, and can effectively plan campaigns and adapt product offerings based on changing customer tastes.”*

— HR Group

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### **Benefits for customers across the board**

The new offering is an exciting one for both SAP customers and IBM customers. Existing Power Systems users will now be able to take advantage of the speed and agility of SAP HANA without worry of having to run the workload on a separate platform. Power Systems users can also feel confident that with SAP's focus on SAP HANA technology, they will be well positioned to use and benefit from newest applications, in close alignment with the SAP roadmap—including the support for S/4HANA.

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*“SAP has made a significant investment in the development of IBM Power Systems which gives us skin in the game because we believe in the technology.”*

— Kyle Garman, SVP & Managing Director, Global Partnerships, SAP

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For SAP HANA customers currently using or trialing other hardware platforms, Power Systems provides an alternative to inflexible and unreliable x86 appliances. IBM POWER8® was developed as a true big data platform, and running SAP HANA on POWER enables the retrieval of critical insights faster while operating on a system that is the most flexible and resilient on the market. All on a system with lower operational costs (people, energy, space, network) than an x86 platform.

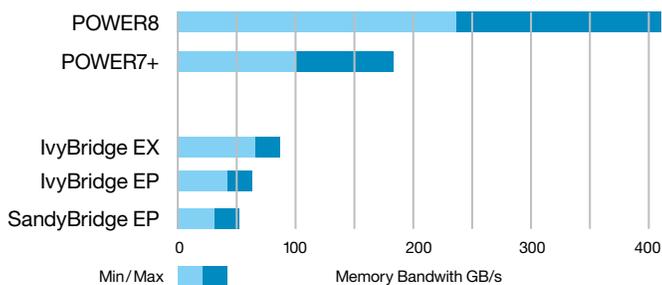
The thousands of global organizations relying on POWER for non-HANA SAP workloads will be able to leverage their existing processes and procedures in areas like high availability, disaster recovery, and backups. This means that in most cases, there will be no need to create new procedures or train employees in new skill sets. As a result, customers will be able to start seeing the benefits of SAP HANA on Power with very little time investment.

This new platform continues the Power Systems tradition of offering industry-leading technology specifications. In fact, when compared with Intel Ivy Bridge EX, POWER8 offers:

- 80 percent better price/performance than Intel Ivy Bridge\*
- Twice the transactions per core\*
- Four times as many simultaneous threads per core (8 versus 2)
- About four times the memory bandwidth (68–86 GB/s versus 230–410 GB/sec)

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Memory: Large, fast workspace to maximize business insight  
Power Systems offers 4X memory bandwidth versus Intel  
(up to 32TB of memory)




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*Table 1:* The faster memory bandwidth offered by Power Systems is ideal for in-memory applications like SAP HANA.

These performance numbers illustrate the fact that Power Systems servers deliver unparalleled performance for big data applications like SAP HANA. As a result, businesses that make the move to SAP HANA on Power will be better positioned to meet their current needs around data management, while also lowering operating costs and having the scalability needed to account for future growth.

### Dedication to openness

In addition to offering leading flexibility, faster access to data and better analytics results, the SAP HANA on Power Systems offering is the latest in a long list of announcements that underscore IBM's dedication to making Power Systems an open innovation platform. Like all Power Systems technology configurations, SAP HANA on Power implementations take full advantage of industry-standard Linux operating systems, helping businesses try new things and deliver greater value to their customers.

With Linux on Power, SAP HANA users can leverage an open platform for innovation and community collaboration, while also taking advantage of the built-in security and superior cloud economics of Power Systems. As a result, organizations can get everything they need to transform themselves into innovative, data-driven businesses.

**For more information** about SAP HANA on IBM Power Systems, please contact your IBM marketing representative or IBM Business Partner, or visit [ibm-sap.com/hana](http://ibm-sap.com/hana).



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