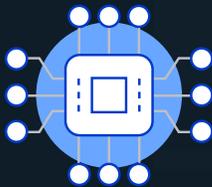IBM POWER SYSTEMS:

YOUR UNFAIR ADVANTAGE

Choosing IT infrastructure is a crucial decision, and the right choice will position your organization for success. IBM Power Systems provides an innovative platform designed for cloud and cognitive workloads at a surprisingly attainable cost. It's like claiming an **unfair advantage** over your competitors.

IBM POWER SYSTEMS AND THE CLOUD

IBM Power Systems' open cloud strategy supports a wide variety of cloud computing models, adaptable to your specific business needs—with private, hybrid and public cloud environments.

IBM Power Systems offers cloud infrastructure and management solutions that have exceptional performance, enterprise-grade agility and reliability.

PRIVATE CLOUD

IBM Power Systems offers you purpose-built, enterprise systems featuring OpenStack-based management, open source automation and benchmark availability and security.

With IBM Power Systems™ E850C, E870C and E880C powering your private cloud, you can lower costs and improve responsiveness. With Capacity on Demand for an on-premises, elastic, pay-as-you-go cloud infrastructure, you can maintain complete control, security and management.

1.96x
better price-performance

Power Systems lets you build, create and deploy cloud-native apps and services with more throughput, performance and improved container density at a lower solution price—1.96x better price-performance than comparable x86 systems.

And you can securely integrate core business data with cloud-based services for rapid app creation, cognitive insight and business innovation.

IBM Power Systems is ideal for hosting cloud native workloads as well, offering exceptional container density with Docker and enterprise-grade container management with Spectrum conductor for containers. In addition, IBM Power Systems supports the development tools you need to dynamically construct microservices-based AI and cognitive workloads.

HYBRID CLOUD

In cases where both control and scalability are important, a hybrid cloud strategy is critical. Power Systems is available in both the IBM Cloud and through hundreds of public cloud providers worldwide. Ubuntu Linux is available on bare metal systems in the SoftLayer cloud. AIX is offered through IBM's Cloud Managed Services. Linux, AIX and IBM i are all available in the public cloud through a global network of partner cloud providers.

5x faster

With Nimbix's IBM Power Systems for HPC, featuring NVIDIA® Pascal™ GPUs, users can run massive machine learning computations in the cloud without having to configure infrastructure first, resulting in 5x faster data flow than competitors.

When you are ready to connect your private cloud with a public cloud, Power Systems makes it easier than ever. IBM's easy-to-use Connect family of tools and integration software seamlessly brings the clouds together, and allows Power Systems clients to view your entire hybrid cloud infrastructure through one pane of glass.

Your choices for managing your hybrid cloud environment are also extensive, with some that are purpose-built for Power Systems, leveraging OpenStack with PowerVC. You can also choose OpenStack distributors such as Ubuntu and Mirantis or a proprietary type tool such as VMware.

PUBLIC CLOUD

Power Systems architecture also makes a great fit for the public cloud infrastructure. The open innovation partnerships and 'co-design' philosophy inherent in the OpenPOWER foundation are becoming increasingly necessary in cloud server design.

The IBM Power Systems roadmap continues to grow and be optimized for data-intensive cloud deployments with the right price-performance. Open architecture makes a difference, and having the same architecture in the cloud and on-premises makes it much easier to put a disaster recovery plan in place.

IBM Power Systems provides the freedom to choose and change as your business needs change. Power Systems simplifies cloud management and scales to meet business needs with price/performance advantages while protecting critical systems and data.

3x
performance

Tencent integrated new IBM Power Systems servers with its hyperscale data centers for advanced analytic workloads and saw a 3x performance improvement over their x86-based infrastructure.

Whatever cloud strategy you're pursuing, IBM Power Systems delivers exceptional performance with flexibility and open-source innovation. You can securely integrate core business data with cloud-based services for rapid app creation, cognitive insight and business innovation.
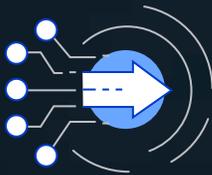
A BETTER VALUE FOR THE CLOUD

The right cloud strategy helps IT managers control costs and still deliver appropriate service levels. IBM Power Systems™ E850C, E870C and E880C enable clients to accelerate the transformation of their IT infrastructure for cloud cost effectively while providing tremendous flexibility during the transition.

These powerful, high performance systems provide you with increased security, high availability, rapid scalability, and simplified maintenance and management that enable business growth while dramatically reducing costs. Lower costs and improve responsiveness with a robust enterprise private cloud that offers automation, self-service and elastic consumption models.
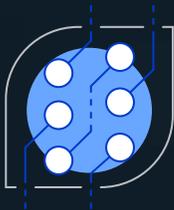
50% savings

IBM Power Systems customers who modernize their infrastructure in the cloud with an E870C or E880C server have found they can cut operating costs by 50%.

IBM POWER SYSTEMS ECOSYSTEM

IBM Power Systems provide the most scalable analytics and data-intensive solution platforms in the industry.

IBM Power Systems supports the world's first open server ecosystem, revolutionizing the way IT is developed and delivered.

DATA-INTENSIVE WORKLOADS

IBM Power Systems is designed to deliver outstanding performance with the most modern, powerful and popular databases and analytics programs. Power Systems delivers faster time-to-value value for data-intensive workloads versus comparable x86 solutions.

ADVANTAGES INCLUDE:

4X threads per core for flexible, fast execution of analytics algorithms

4X memory bandwidth to maximize business insights faster

6X more cache to ensure continuous data load for fast responses

From a business perspective, IBM Power Systems supports faster insights for critical decision-making from data-intensive workflows. Industries that depend on supply chain optimization, fraud prevention and enterprise data management all stand to benefit.

And IBM Power Systems will integrate seamlessly with your existing data center and cloud environments, delivering superior price-performance for data analytics workloads.

To accelerate innovation, Power Systems gives you opportunities to harness even more power with solution-specific hardware accelerators and the POWERAccel family of technologies.

2.5x faster

IBM Power Systems' accelerated solutions (like Kinetica) are 2.5X faster than x86 accelerated solutions.

OPEN INNOVATION PLATFORM

IBM Power Systems takes an open approach to innovation. IBM works regularly with the over 300 member companies of OpenPOWER, drawing from the most creative minds and best partner technology. From software to hardware, the innovation touches everything in the stack. IBM is bringing together companies like Google, Samsung and NVIDIA to tackle next generation applications and to solve problems that current systems aren't able to do today.

Google   SAMSUNG   NVIDIA.

Unlike commodity, off-the-shelf x86 server solutions, IBM Power Systems servers are designed at every level to be faster, more reliable and more open than anything else you can get.

2.5x bandwidth

OpenPOWER innovation delivered the industry's first NVLink offering which delivers 2.5x more bandwidth for GPU to CPU connections than anything else on the market.

THE SMART CHOICE FOR MODERNIZATION

Modernizing your data center while you are trying to cut costs and retain performance can be challenging. By moving to IBM Power Systems, you can achieve greater cost-efficiency, helping you spend less on IT operations and achieve more.

IBM Power Systems offers a robust platform at a competitive cost along with financing options that make it much more manageable and cost effective.

2x advantage

Get a **2x price-performance advantage** versus x86 guarantee on big data servers for MongoDB or **1.8x price-performance advantage** versus x86 guarantee for EDB Postgres.

With IBM Power Systems you can tackle the most demanding, data-intensive computing tasks on earth.

Learn how to give yourself an unfair advantage at ibm.com/power →