

# Introduction And Overview For Customers Marine Engines

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## Introduction to Sport Marketing IBM Redbooks

This IBM® Redpaper™ publication describes the adapter-based virtualization capabilities that are being deployed in high-end IBM POWER7+™ processor-based servers. Peripheral Component Interconnect Express (PCIe) single root I/O virtualization (SR-IOV) is a virtualization technology on IBM Power Systems servers. SR-IOV allows multiple logical partitions (LPARs) to share a PCIe adapter with little or no run time involvement of a hypervisor or other virtualization intermediary. SR-IOV does not replace the existing virtualization capabilities that are offered as part of the IBM PowerVM® offerings. Rather, SR-IOV compliments them with additional capabilities. This paper describes many aspects of the SR-IOV technology, including: A comparison of SR-IOV with standard virtualization technology Overall benefits of SR-IOV Architectural overview of SR-IOV Planning requirements SR-IOV deployment models that use standard I/O virtualization Configuring the adapter for dedicated or shared modes Tips for maintaining and troubleshooting your system Scenarios for configuring your system This paper is directed to clients, IBM Business Partners, and system administrators who are involved with planning, deploying, configuring, and maintaining key virtualization technologies.

## Consumer Informatics and Digital Health Information Gatekeepers Inc

The goal of Introduction to Information Systems, 3rd Canadian Edition remains the same: to teach all business majors, especially undergraduate ones, how to use information technology to master their current or future jobs and to help ensure the success of their organization. To accomplish this goal, this text helps students to become informed users; that is, persons knowledgeable about information systems and information technology. The focus is not on merely learning the concepts of IT but rather on applying those concepts to facilitate business processes. The authors concentrate on placing information systems in the context of business, so that students will more readily grasp the concepts presented in the text. The theme of this book is What's In IT for Me? This question is asked by all students who take this course. The book will show you that IT is the backbone of any business, whether a student is majoring in Accounting, Finance, Marketing, Human Resources, or Production/Operations Management. Information for the Management Information Systems (MIS) major is also included.

## IBM Power 795 (9119-FHB) Technical Overview and Introduction IBM Redbooks

This IBM® Redpaper™ publication is a comprehensive guide covering the IBM Power 750 and Power 760 servers supporting IBM AIX®, IBM i, and Linux operating systems. The goal of this paper is to introduce the major innovative Power 750 and Power 760 offerings and their prominent functions: The IBM POWER7+™ processor is available at frequencies of 3.1 GHz, 3.4 GHz, 3.5 GHz, and 4.0 GHz. The larger IBM POWER7+ Level 3 cache provides greater bandwidth, capacity, and reliability. The newly introduced POWER7+ dual chip module (DCM). New 10GBase-T options for the Integrated Multifunction Card that provides two USB ports, one serial port, and four Ethernet connectors for a processor enclosure and does not require a PCI slot. New IBM PowerVM® V2.2.2 features, such as 20 LPARs per core. The improved IBM Active Memory™ Expansion technology provides more usable memory than is physically installed in the system. Professionals who want to acquire a better understanding of IBM Power Systems™ products should read this paper. This Redpaper expands the current set of IBM Power Systems documentation by providing a desktop reference that offers a detailed technical description of the 750 and 760 systems. This paper does not replace the latest marketing materials and configuration tools. It is intended as an additional source of information that, together with existing sources, may be used to enhance your knowledge of IBM server solutions. For additional reading: A Technote is available that explains the performance architecture of this server. It is of interest to those migrating workloads from existing Power 750 servers. It can be found at: Architecture of the IBM POWER7+ Technology-Based IBM Power 750 and IBM Power 760 Technote

IBM Power E1080 Technical Overview and Introduction IBM Redbooks This IBM® Redpaper™ publication is a comprehensive guide that covers the IBM Power System™ S812LC (8347-21C) servers that use the latest IBM POWER8® processor technology and supports the Linux operating system (OS). The objective of this paper is to introduce the major innovative Power S812LC offerings and their relevant functions: Powerful POWER8 processors that offer 3.32 GHz or 2.92 GHz performance with eight or ten fully activated cores Superior throughput and performance for high-value Linux workloads, such as Linux, Apache, MariaDB, and PHP (LAMP), Hadoop, Spark, or industry application Low acquisition cost through system optimization (industry-standard memory, limited configurations, limited I/O and expansion, and industry-standard warranty) Up to 112 TB of internal storage More choices through open interfaces with tightly coupled FPGAs, and coherent, tightly coupled accelerators (CAPI) Improved reliability, serviceability, and availability (RAS) functions IBM EnergyScale™ technology provides features such as power trending, power-saving, capping of power, and thermal measurement This publication is for professionals who want to acquire a better understanding of IBM Power Systems products. The intended audience includes the following roles: Clients Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors This paper expands the current set of IBM Power Systems documentation by providing a desktop reference that offers a

detailed technical description of the Power S812LC computing server. This paper does not replace the latest marketing materials and configuration tools. It is intended as an additional source of information that, together with existing sources, can be used to enhance your knowledge of IBM server solutions.

#### **IBM PurePower Technical Overview and Introduction** IBM Redbooks

This IBM® Redpaper™ publication introduces and provides a technical overview of the IBM PurePower System that helps support management of big data, social media, mobile, analytics, and the flow of critical information. A PurePower System can be configured in an affordable entry-level configuration in a single rack, and it is agile enough to be expanded for scalable cloud deployments. It has built-in redundancy for highly reliable and resilient operation to support demanding applications and cloud services, as required by many enterprises. A PurePower System also provides the scalability, flexibility, and versatility that you demand for business-critical workloads. The following enhancements were announced in October 2015: IBM i operating system on top of a Virtual I/O Server (VIOS) now supported on the IBM Power System S822 server Improvements to PurePower Integrated Manager Integration of HMC code (virtual HMC) into the PurePower Integrated Manager Ability to order translated PurePower documentation that is geography-specific Configuration support for IBM Power System S822 and S822L server in a single rack PowerVC 1.2.3 Standard Edition Power compute node firmware SV840

#### **IBM Power 770 and 780 Technical Overview and Introduction** IBM Redbooks

This IBM® Redpaper publication is a comprehensive guide that covers the IBM Power E1050 server (9043-MRX) that uses the latest IBM Power10 processor-based technology and supports IBM AIX® and Linux operating systems (OSs). The goal of this paper is to provide a hardware architecture analysis and highlight the changes, new technologies, and major features that are being introduced in this system, such as: The latest IBM Power10 processor design, including the dual-chip module (DCM) packaging, which is available in various configurations from 12 - 24 cores per socket. Support of up to 16 TB of memory. Native Peripheral Component Interconnect Express (PCIe) 5th generation (Gen5) connectivity from the processor socket to deliver higher performance and bandwidth for connected adapters. Open Memory Interface (OMI) connected Differential Dual Inline Memory Module (DDIMM) memory cards delivering increased performance, resiliency, and security over industry-standard memory technologies, including transparent memory encryption. Enhanced internal storage performance with the use of native PCIe-connected Non-volatile Memory Express (NVMe) devices in up to 10 internal storage slots to deliver up to 64 TB of high-performance, low-latency storage in a single 4-socket system. Consumption-based pricing in the Power Private Cloud with Shared Utility Capacity commercial model to allow customers to consume resources more flexibly and efficiently, including AIX, Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise Server, and Red Hat OpenShift Container Platform workloads. This publication is for professionals who want to acquire a better understanding of IBM Power products. The intended audience includes: IBM Power customers Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors (ISVs) This paper expands the set of IBM Power documentation by providing a desktop reference that offers a detailed technical description of the Power E1050 Midrange server model. This paper does not replace the current marketing materials and configuration tools. It is intended as an extra source of information that, together with existing sources, can be

used to enhance your knowledge of IBM server solutions..

#### ***Zero Trust Overview and Playbook Introduction*** IBM Redbooks

An Introduction to Cyberpsychology provides a comprehensive introduction to this rapidly growing discipline. Fully updated in its second edition, the book encourages students to critically evaluate the psychology of online interactions and to develop appropriate research methodologies to complete their own work in this field. The book examines cyberpsychology and online research methodologies, social psychology in an online context, practical applications of cyberpsychology, and the psychological aspects of other technologies. This new edition has been carefully updated to include additional coverage of: Expanded content relating to major developments in the field and new content on gaming and screentime A new chapter examining the relationship between older adults and technology Cyberpsychology in focus feature boxes in each chapter that examine topics in depth Interviews with professionals working in fields relating to cyberpsychology Each chapter includes key terms and a glossary, content summaries, discussion questions, and recommended reading to guide further study. Supported by extensive online resources for students and instructors, this authoritative book is an essential core text for undergraduate modules in cyberpsychology, and an ideal primer for students of postgraduate programs in cyberpsychology. To view the additional student and instructor resources for this book, please visit [bpscoretextbooks.routledge.com](http://bpscoretextbooks.routledge.com)

#### ***IBM Power Systems S814 and S824 Technical Overview and Introduction*** GRIN Verlag

This IBM® Redpaper™ publication provides a broad understanding of a new architecture of the IBM Power System E980 (9080-M9S) server that supports IBM AIX®, IBM i, and Linux operating systems (OSes). The objective of this paper is to introduce the major innovative Power E980 offerings and relevant functions: The IBM POWER9™ processor, which is available at frequencies of 3.55 - 4.0 GHz. Significantly strengthened cores and larger caches. Supports up to 64 TB memory. Integrated I/O subsystem and hot-pluggable Peripheral Component Interconnect Express (PCIe) Gen4 slots, double the bandwidth of Gen3 I/O slots. Supports EXP12SX and ESP24SX external disk drawers, which have 12 Gb SAS interfaces and double the existing EXP24S drawer bandwidth. New IBM EnergyScale™ technology offers new variable processor frequency modes that provide a significant performance boost beyond the static nominal frequency. This publication is for professionals who want to acquire a better understanding of IBM Power Systems™ products. The intended audience includes the following roles: Clients Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors (ISVs) This paper expands the current set of IBM Power Systems documentation by providing a desktop reference that offers a detailed technical description of the Power E980 server. This paper does not replace the current marketing materials and configuration tools. It is intended as an extra source of information that, together with existing sources, can be used to enhance your knowledge of IBM server solutions.

## IBM BladeCenter PS703 and PS704 Technical Overview and Introduction IBM Redbooks

This IBM® Redpaper® publication provides a broad understanding of a new architecture of the IBM Power® E1080 (also known as the Power E1080) server that supports IBM AIX®, IBM i, and selected distributions of Linux operating systems. The objective of this paper is to introduce the Power E1080, the most powerful and scalable server of the IBM Power portfolio, and its offerings and relevant functions: Designed to support up to four system nodes and up to 240 IBM Power10™ processor cores The Power E1080 can be initially ordered with a single system node or two system nodes configuration, which provides up to 60 Power10 processor cores with a single node configuration or up to 120 Power10 processor cores with a two system nodes configuration. More support for a three or four system nodes configuration is to be added on December 10, 2021, which provides support for up to 240 Power10 processor cores with a full combined four system nodes server. Designed to supports up to 64 TB memory The Power E1080 can be initially ordered with the total memory RAM capacity up to 8 TB. More support is to be added on December 10, 2021 to support up to 64 TB in a full combined four system nodes server.

Designed to support up to 32 Peripheral Component Interconnect® (PCIe) Gen 5 slots in a full combined four system nodes server and up to 192 PCIe Gen 3 slots with expansion I/O drawers The Power E1080 supports initially a maximum of two system nodes; therefore, up to 16 PCIe Gen 5 slots, and up to 96 PCIe Gen 3 slots with expansion I/O drawer. More support is to be added on December 10, 2021, to support up to 192 PCIe Gen 3 slots with expansion I/O drawers. Up to over 4,000 directly attached serial-attached SCSI (SAS) disks or solid-state drives (SSDs) Up to 1,000 virtual machines (VMs) with logical partitions (LPARs) per system System control unit, providing redundant system master Flexible Service Processor (FSP) Supports IBM Power System Private Cloud Solution with Dynamic Capacity This publication is for professionals who want to acquire a better understanding of Power servers. The intended audience includes the following roles: Customers Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors (ISVs) This paper does not replace the current marketing materials and configuration tools. It is intended as an extra source of information that, together with existing sources, can be used to enhance your knowledge of IBM server solutions.

## *IBM Systems Director Management Console: Introduction and Overview* IBM Redbooks

This book explores consumer protection in the major financial markets in the world and provides an international comparison among the countries of different cultural background and economic development. Each chapter describes the major issues of financial consumption in the selected country and the efforts to counter the problems of financial consumption. The innovation and renovation in the financial institutions and the public policies for consumer protection are also analyzed for their potential impacts on the future development of financial markets.

## *Introduction to SAP S/4HANA* John Wiley & Sons

This IBM® Redpaper publication is a comprehensive guide that covers the IBM Power System S914 (9009-41G), IBM Power System S922 (9009-22G), and IBM Power System S924 (9009-42G) servers that use the latest IBM POWER9™ processor-based technology and support the IBM AIX®, IBM i, and Linux operating systems (OSs). The goal of this paper is to provide a hardware architecture analysis and highlight the changes, new technologies, and major features that are being introduced in these systems, such as: The latest IBM POWER9 processor, which is available in various configurations for the number of cores

per socket More performance by using industry-leading Peripheral Component Interconnect Express (PCIe) Gen 4 slots Enhanced internal disk scalability and performance with up to 11 NVMe adapters Introduction of a competitive Power S922 server with a 1-socket configuration that is targeted at IBM i customers This publication is for professionals who want to acquire a better understanding of IBM Power Systems™ products. The intended audience includes the following roles: Clients Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors (ISVs) This paper expands the current set of IBM Power Systems documentation by providing a desktop reference that offers a detailed technical description of the Power S914, Power S922, and Power S924 systems. This paper does not replace the current marketing materials and configuration tools. It is intended as an extra source of information that, together with existing sources, can be used to enhance your knowledge of IBM server solutions.

## **Introduction to the Legal System: Theory, Overview, Business Applications** IBM Redbooks

This easy-to-understand introduction to SAP S/4HANA guides you through the central processes in sales, purchasing and procurement, finance, production, and warehouse management using the model company Global Bike. Familiarize yourself with the basics of business administration, the relevant organizational data, master data, and transactional data, as well as a selection of core business processes in SAP. Using practical examples and tutorials, you will soon become an SAP S/4HANA professional! Tutorials and exercises for beginners, advanced users, and experts make it easy for you to practice your new knowledge. The prerequisite for this book is access to an SAP S/4HANA client with Global Bike version 4.1. - Business fundamentals and processes in the SAP system - Sales, purchasing and procurement, production, finance, and warehouse management - Tutorials at different qualification levels, exercises, and recap of case studies - Includes extensive download material for students, lecturers, and professors

## **IBM Power Systems SR-IOV: Technical Overview and Introduction** IBM Redbooks

This IBM® Redbooks® publication positions the IBM Systems Director Management Console (SDMC) against the IBM Hardware Management Console (HMC). The IBM Systems Director Management Console provides system administrators the ability to manage IBM Power System® servers as well as IBM Power Blade servers. It is based on IBM Systems Director. This publication is designed for system administrators to use as a deskside reference when managing Virtual Servers (formerly partitions) using the SDMC. The major functions that the SDMC provides are server hardware management and virtualization management.

## *IBM Power System S822 Technical Overview and Introduction* IBM Redbooks

This IBM® Redpaper™ publication is a comprehensive guide covering the IBM Power System L922 (9008-22L) server, which was designed for data-intensive workloads such as databases and analytics in the Linux operating system. The objective of this paper is to introduce the major innovative Power L922 offering and its relevant functions: The new IBM POWER9™ processor, available at frequencies of 2.7 - 3.8 GHz, 2.9 - 3.8 GHz, and 3.4 - 3.9 GHz.

Significantly strengthened cores and larger caches. Two integrated memory controllers that allow double the memory footprint of IBM POWER8® processor-based servers. An integrated I/O subsystem and hot-pluggable Peripheral Component Interconnect Express (PCIe) Gen4 and Gen3 I/O slots. I/O drawer expansion options offer greater flexibility. Support for Coherent Accelerator Processor Interface (CAPI) 2.0. New feature IBM EnergyScale™ technology provides new variable processor frequency modes that provide a significant performance boost beyond the static nominal frequency. This publication is for professionals who want to acquire a better understanding of IBM Power Systems™ products. The intended audience includes the following roles: Clients Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors (ISVs) This paper expands the current set of IBM Power Systems documentation by providing a desktop reference that offers a detailed technical description of the Power L922 system. This paper does not replace the current marketing materials and configuration tools. It is intended as an extra source of information that, together with existing sources, can be used to enhance your knowledge of IBM server solutions.

### **An International Comparison of Financial Consumer Protection** Taylor & Francis

This IBM® Redpaper™ publication is a comprehensive guide that covers the IBM Power System™ S822LC (8335-GCA and 8335-GTA) servers that use the latest IBM POWER8® processor technology and supports the Linux operating system (OS). The objective of this paper is to introduce the major innovative Power S822LC offerings and their relevant functions: Powerful POWER8 processors that offer 3.32 GHz or 2.92 GHz performance with eight or ten fully activated cores Superior throughput and performance for high-value Linux workloads, such as Linux, Apache, MariaDB, and PHP (LAMP), big data and analytics, or industry applications Low acquisition cost through system optimization (industry-standard memory, limited configurations, limited I/O and expansion, and industry-standard warranty) A strong innovation roadmap for graphics processor units (GPUs) accelerators More choices through open interfaces with tightly coupled Field Programmable Gate Arrays (FPGAs) and Coherent Accelerator Processor Interface (CAPI) Improved reliability, serviceability, and availability (RAS) functions IBM EnergyScale™ technology that provides features such as power trending, power-saving, capping of power, and thermal measurement This publication is for professionals who want to acquire a better understanding of IBM Power Systems products. The intended audience includes the following roles: Clients Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors This paper expands the set of IBM Power Systems documentation by providing a desktop reference that offers a detailed technical description of the Power S822LC server. This paper does not replace the latest marketing materials and configuration tools. It is intended as an additional source of information that, together with existing sources, can be used to enhance your knowledge of IBM server solutions.

### *Understanding and Managing Customers* IBM Redbooks

This IBM® Redpaper™ publication is a comprehensive guide that covers the IBM Power® System E870C (9080-MME) and IBM Power System E880C (9080-MHE) servers that support IBM AIX®, IBM i, and Linux operating systems. The objective of this paper is to introduce the major innovative Power E870C and Power E880C offerings and their relevant functions. The new Power E870C and Power E880C servers with OpenStack-based cloud management and open source automation enables clients to accelerate the transformation of their IT infrastructure for cloud while providing tremendous flexibility during the transition. In addition, the Power E870C and Power E880C

models provide clients increased security, high availability, rapid scalability, simplified maintenance, and management, all while enabling business growth and dramatically reducing costs. The systems management capability of the Power E870C and Power E880C servers speeds up and simplifies cloud deployment by providing fast and automated VM deployments, prebuilt image templates, and self-service capabilities, all with an intuitive interface. Enterprise servers provide the highest levels of reliability, availability, flexibility, and performance to bring you a world-class enterprise private and hybrid cloud infrastructure. Through enterprise-class security, efficient built-in virtualization that drives industry-leading workload density, and dynamic resource allocation and management, the server consistently delivers the highest levels of service across hundreds of virtual workloads on a single system. The Power E870C and Power E880C server includes the cloud management software and services to assist with clients' move to the cloud, both private and hybrid. The following capabilities are included: Private cloud management with IBM Cloud PowerVC Manager, Cloud-based HMC Apps as a service, and open source cloud automation and configuration tooling for AIX Hybrid cloud support Hybrid infrastructure management tools Securely connect system of record workloads and data to cloud native applications IBM Cloud Starter Pack Flexible capacity on demand Power to Cloud Services This paper expands the current set of IBM Power Systems™ documentation by providing a desktop reference that offers a detailed technical description of the Power E870C and Power E880C systems. This paper does not replace the latest marketing materials and configuration tools. It is intended as another source of information that, together with existing sources, can be used to enhance your knowledge of IBM server solutions.

### *IBM Power System E980: Technical Overview and Introduction* IBM Redbooks

Get an introduction to the radiologic technology profession with this solid text! Covering everything a beginning radiography student needs to know, *Introduction to Radiologic Technology, 8th Edition* lays the groundwork for a successful career. It includes coverage of the coursework required, basic learning skills, a historical perspective on radiology, and insight into key topics such as the language of medicine, digital imaging, patient care, and radiation safety. This book also includes the latest changes in the registry exam and a discussion of the radiographer's role in the practice setting and opportunities for advancement. A clear, easy-to-read style does not assume you have prior knowledge of the subject matter. Critical thinking skills are highlighted, with four important steps to take in assessing situations and making informed decisions. Guidelines for a solid radiography career foundation discuss customer service, ethics and professionalism, and professional organizations. Thorough introduction to radiologic technology includes a concise overview of what you can expect in your coursework. Cultural diversity coverage orients you to the challenge of dealing with patients from different cultures in the medical environment. NEW! Updated career advancement opportunities and newest medical terminology include just the right amount detail for new radiographers. NEW! Incorporation of SI units of measurement accurately depict current practice standards.



## IBM Power System E850C Technical Overview and Introduction IBM Redbooks

This unique collection synthesizes insights and evidence from innovators in consumer informatics and highlights the technical, behavioral, social, and policy issues driving digital health today and in the foreseeable future. Consumer Informatics and Digital Health presents the fundamentals of mobile health, reviews the evidence for consumer technology as a driver of health behavior change, and examines user experience and real-world technology design challenges and successes. Additionally, it identifies key considerations for successfully engaging consumers in their own care, considers the ethics of using personal health information in research, and outlines implications for health system redesign. The editors' integrative systems approach heralds a future of technological advances tempered by best practices drawn from today's critical policy goals of patient engagement, community health promotion, and health equity. Here's the inside view of consumer health informatics and key digital fields that students and professionals will find inspiring, informative, and thought-provoking. Included among the topics:

- Healthcare social media for consumer informatics
- Understanding usability, accessibility, and human-centered design principles
- Understanding the fundamentals of design for motivation and behavior change
- Digital tools for parents: innovations in pediatric urgent care
- Behavioral medicine and informatics in the cancer community
- Content strategy: writing for health consumers on the web
- Open science and the future of data analytics
- Digital approaches to engage consumers in value-based purchasing

Consumer Informatics and Digital Health takes an expansive view of the fields influencing consumer informatics and offers practical case-based guidance for a broad range of audiences, including students, educators, researchers, journalists, and policymakers interested in biomedical informatics, mobile health, information science, and population health. It has as much to offer readers in clinical fields such as medicine, nursing, and psychology as it does to those engaged in digital pursuits.

## *Introduction to Radiologic Technology - E-Book* Oxford University Press

This IBM® Redpaper™ publication is a comprehensive guide that covers the IBM Power System S821LC (8001-12C) server that uses the latest IBM POWER8® processor technology and supports the Linux operating system (OS). The Power S821LC server is designed to maximize data center floor space with its dense 1U server design, which helps to reduce infrastructure cost. The Power S821LC server delivers superior performance and exceptional throughput for data center and cloud workloads that require dense virtualization, open source database deployment, and high-performance computing applications. The Power S821LC server supports up to two processor sockets, offering 16-core 2.328 GHz (3.026 GHz turbo) or 20-core 2.095 GHz (2.827 GHz turbo) POWER8 configurations in a 19-inch rack-mount, 1U (EIA units) drawer configuration. All the cores are activated. The objective of this paper is to introduce the Power S821LC offering and its relevant functions, including: Two POWER8 processors in a 1U form factor Dense virtualization and dense database deployment capability-providing more value per server footprint than 1U x86-based alternatives Leadership data throughput that is enabled by POWER8 multithreading with up to 4X more threads than x86 designs Superior application performance due to 2x per core performance advantage over

x86-based systems Acceleration of a broad range of workloads with GPUs and superior I/O bandwidth with Coherent Accelerator Processor Interface (CAPI) This publication is for professionals who want to acquire a better understanding of IBM Power Systems™ products. The intended audience includes the following roles: Clients Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors This paper expands the current set of IBM Power Systems documentation by providing a desktop reference that offers a detailed technical description of the Power S821LC system.

## IBM Power 710 and 730 Technical Overview and Introduction IBM Redbooks

This IBM® Redpaper™ publication gives a broad understanding of a new architecture of the IBM Power System E950 (9040-MR9) server that supports IBM AIX®, and Linux operating systems. The objective of this paper is to introduce the major innovative Power E950 offerings and relevant functions: The IBM POWER9™ processor, which is available at frequencies of 2.8 - 3.4 GHz. Significantly strengthened cores and larger caches. Supports up to 16 TB of memory, which is four times more than the IBM POWER8® processor-based IBM Power System E850 server. Integrated I/O subsystem and hot-pluggable Peripheral Component Interconnect Express (PCIe) Gen4 slots, which have double the bandwidth of Gen3 I/O slots. Supports EXP12SX and ESP24SX external disk drawers, which have 12 Gb Serial Attached SCSI (SAS) interfaces and support Active Optical Cables (AOCs) for greater distances and less cable bulk. New IBM EnergyScale™ technology offers new variable processor frequency modes that provide a significant performance boost beyond the static nominal frequency. This publication is for professionals who want to acquire a better understanding of IBM Power Systems™ products. The intended audience includes the following roles: Clients Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors (ISVs) This paper expands the current set of Power Systems documentation by providing a desktop reference that offers a detailed technical description of the Power E950 server. This paper does not replace the current marketing materials and configuration tools. It is intended as an extra source of information that, together with existing sources, can be used to enhance your knowledge of IBM server solutions.