

Leadership enterprise server with significantly lower cost of ownership in a highly available and dependable, rack-mount, 1U dual-socket server

IBM



Product Guide

December 2008

IBM System x3550 M2

Product Overview

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Outstanding innovation in only 1U

Supported Uses: All sectors requiring highly available, energy-efficient, rack-optimized solution for physical and virtual Internet commercial environments like eBusiness/eCommerce, collaboration, virtualization, databases, and enterprise resource planning applications.

Your challenge is to do more with less—serve more Web pages, handle more secure connections, support more e-mail users. You need to reduce the costs of doing business and improve the service you deliver to your customers while lowering your overall risk. The **dedicated IBM® System x3550 M2** can reduce your costs with its new energy smart design. It can improve service with reduced operational complexity and increased management functionality. It will lower your IT risk with the reliability that comes from no single point of failure. And that of IBM servers, the x3550 M2 offers you the trust that comes from the IBM global reach, service and support.

The x3550 M2 is not simply an upgrade to a previous server... It is one of our new generation of **2-Architecture** servers. It is a game-changing, completely redesigned rack server using significantly less power with unified systems management tools, leadership reliability, availability, connectivity features and tested systems flexibly housed in a compact 1U mechanical package.

The x3550 M2 features Intel® Xeon® X5500 Series Xeon and Xeon processors and either SAS or SATA of shared drives, to help provide you with the computing power you need to match your business needs and growth. The new line of Intel processors delivers unprecedented, intelligent performance with features like adaptive performance for applications and environments, turbo boost and hyper-threading technology, and integrated power gates and automated power management.

The x3550 M2 uses up to **16 GBs** with **12GB** of registered **DDR3** memory with **OnChip ECC Error Checking and Correcting** protection—for high performance and reliability. For even higher levels of availability, the x3550 M2 also offers online memory mirroring, up to **8** integrated high-speed **Gigabit Ethernet** controllers with **1Gb** TCP Offload Engine and **Double Frame** support are available, as are two high-performance adapter slots (**PCIe x16**). The x3550 M2 offers an optional **embedded hypervisor** to manage your virtual workload.

The x3550 M2 offers a choice of up to six high-performance hot-swap hard disk drives with an internal storage capacity of **3.0TB** (six **3.5-inch hot-swap Serial-Attached SCSI (SAS)** or **SATA HDDs**). Optional solid-state drives are also available to keep power low and improve efficiency and offer up to **800GB** of storage. The server supports a choice of four **IBM SmartFlash®** storage controllers which provide broad levels of hardware-based **RAID** solutions. The integrated **16** form factor drives businesses to increase their computing power and spread their workload without outgrowing their current data center. Up to **42** of these 1U servers can be installed in a single 42U rack, for a total of up to **84** processors and **336** processor cores, offering tremendous deployment flexibility. Optional **Advanced Connectivity Technology (ACT)** interconnect cabling reduces cable clutter and cost and increases installation time when interconnecting many rack-mounted servers.

Standard in the x3550 M2 is the **Integrated Management Module (IMM)** that enables the user to manage and control the server easily—both locally and remotely. In conjunction with the **IBM**, the x3550 M2 comes with an **altitude sensor (altimeter)** that governs fan rotation based on altitude, to help lower your energy consumption. The **IMM** offers a high level of manageability that is designed to keep costs down and the system up—even when network usage increases. **IMM's** innovative pop-out/stop-down **light path diagnostic panel** enables quick servicing of the system if a problem develops. These advanced features help maximize network availability by increasing uptime, as do our **single-energy solid-state drives**, **hot-swap redundant SAS** or **SATA HDDs**, **redundant ultra-efficient power supplies** and fan modules, **Active Memory**, integrated **RAID**, **temperature-controlled fans** with **Calibrated Fanmost Cooling™**, **PERC 2.0** system, including **highly secure remote power control** and **Serial over LAN**, as well as **test-ready redfish** over **LAN**.

Ibm X355mserver Guide

**Bill Hines,John Rasmussen,Jaime
Ryan,Simon Kapadia,Jim Brennan**

IBM X355mserver Guide:

IBM TS7700 Release 4.2 Guide Larry Coyne,Derek Erdmann,Joe Hew,Sosuke Matsui,Alberto Barajas Ortiz,Aderson Pacini,Michael Scott,Chen Zhu,IBM Redbooks,2019-04-19 This IBM Redbooks publication covers IBM TS7700 R4 2 The IBM TS7700 is part of a family of IBM Enterprise tape products This book is intended for system architects and storage administrators who want to integrate their storage systems for optimal operation Building on over 20 years of virtual tape experience the TS7760 now supports the ability to store virtual tape volumes in an object store The TS7700 has supported off loading to physical tape for over two decades Off loading to physical tape behind a TS7700 is utilized by hundreds of organizations around the world Using the same hierarchical storage techniques the TS7700 can also off load to object storage Given object storage is cloud based and accessible from different regions the TS7760 Cloud Storage Tier support essentially allows the cloud to be an extension of the grid As of the release of this document the TS7760C supports the ability to off load to IBM Cloud Object Storage as well as Amazon S3 To learn about the TS7760 cloud storage tier function planning implementation best practices and support see IBM Redpaper IBM TS7760 R4 2 Cloud Storage Tier Guide redp 5514 at <http://www.redbooks.ibm.com/abstracts/redp5514.html> The IBM TS7700 offers a modular scalable and high performance architecture for mainframe tape virtualization for the IBM Z environment It is a fully integrated tiered storage hierarchy of disk and tape This storage hierarchy is managed by robust storage management microcode with extensive self management capability It includes the following advanced functions Improved reliability and resiliency Reduction in the time that is needed for the backup and restore process Reduction of services downtime that is caused by physical tape drive and library outages Reduction in cost time and complexity by moving primary workloads to virtual tape More efficient procedures for managing daily backup and restore processing Infrastructure simplification through reduction of the number of physical tape libraries drives and media TS7700 delivers the following new capabilities TS7760C supports the ability to off load to IBM Cloud Object Storage as well as Amazon S3 8 way Grid Cloud consisting of any generation of TS7700 Synchronous and asynchronous replication Tight integration with IBM Z and DFSMS policy management Optional Transparent Cloud Tiering Optional integration with physical tape Cumulative 16Gb FICON throughput up to 4 8GB s 8 IBM Z hosts view up to 496 8 equivalent devices Grid access to all data independent of where it exists The TS7760T writes data by policy to physical tape through attachment to high capacity high performance IBM TS1150 and IBM TS1140 tape drives installed in an IBM TS4500 or TS3500 tape library The TS7760 models are based on high performance and redundant IBM POWER8 technology They provide improved performance for most IBM Z tape workloads when compared to the previous generations of IBM TS7700

IBM E-server XSeries 445 Planning and Installation Guide David Watts,2003-01-01 **IBM E-server XSeries 440**

Planning and Installation Guide IBM Redbooks,David Watts,2002 **IBM Power Systems for SAS Viya 3.5**

Deployment Guide Dino Quintero,Adriano Almeida,Taragopal Chattopadhyay,Christopher Chung,Beth L.

Hoffman, Pradyothan Jeedula, Sandy Kao, Reinaldo Tetsuo Katahira, Kurt Koehle, Abhijit Mane, Antonio Moreira de Oliveira Neto, Harry Seifert, Travis Siegfried, IBM Redbooks, 2021-04-22 This IBM Redbooks publication provides options and best practices for deploying SAS Viya 3.5 on IBM POWER9™ servers. SAS Viya is a complex set of artificial intelligence (AI) and analytics solutions that require a properly planned infrastructure to meet the needs of the data scientists, business analysts, and application developers who use Viya capabilities in their daily work activities. Regardless of the user role, the underlying infrastructure matters to ensure performance expectations and service level agreement (SLA) requirements are met or exceeded. Although the general planning process is similar for deploying SAS Viya on any platform, key IBM POWER9 differentiators must be considered to ensure that an optimized infrastructure deployment is achieved. This guide provides useful information that is needed during the planning, sizing, ordering, installing, configuring, and tuning phases of your SAS Viya deployment on POWER9 processor-based servers. This book addresses topics for IT architects, IT specialists, developers, sellers, and anyone who wants to implement SAS Viya 3.5 on IBM POWER9 servers. Moreover, this publication provides documentation to transfer the how-to skills to the technical teams and solution guidance to the sales team. This book complements the documentation that is available in IBM Knowledge Center and aligns with the educational materials that are provided by the IBM Systems Software Education (SSE).

IBM WebSphere DataPower SOA Appliance Handbook Bill Hines, John Rasmussen, Jaime Ryan, Simon Kapadia, Jim Brennan, 2008-12-24 Expert Guide to Deploying, Using, and Managing DataPower SOA Appliances. IBM WebSphere DataPower appliances can simplify SOA deployment, strengthen SOA security, enhance SOA performance, and dramatically improve SOA return on investment. In this book, a team of IBM's leading experts show how to make the most of DataPower SOA appliances in any IT environment. The authors present IBM DataPower information and insights that are available nowhere else. Writing for working architects, administrators, and security specialists, they draw extensively on their deep experience helping IBM customers use DataPower technologies to solve challenging system integration problems. IBM WebSphere DataPower SOA Appliance Handbook begins by introducing the rationale for SOA appliances and explaining how DataPower appliances work from network security and Enterprise Service Bus perspectives. Next, the authors walk through DataPower installation and configuration, then they present deep detail on DataPower's role and use as a network device. Using many real-world examples, the authors systematically introduce the services available on DataPower devices, especially the big three: XML Firewall, Web Service Proxy, and Multi-Protocol Gateway. They also present thorough and practical guidance on day-to-day DataPower management, including monitoring, configuration, build, and deploy techniques. Coverage includes configuring DataPower's network interfaces for common scenarios, implementing DataPower deployment patterns for security gateway, ESB, and Web service management applications, proxying Web applications with DataPower, systematically addressing the security vulnerabilities associated with Web services, and XML. Integrating security with WebSphere Application Server. Mastering DataPower XSLT custom

programming Troubleshooting using both built in and external tools **IBM System Storage N Series Multiprotocol Use Guide** IBM Redbooks,Alex Osuna,Gary R. Nunn,Ellie Berriman,2007-01-01 **IBM EServer XSeries 450 Planning and Installation Guide** David Watts,Gerry McGettigan,Michael Nelson,Lubos Nikolini,Jose Ruibal,2003 The IBM eServer xSeries 450 is IBM s new 64 bit Itanium Processor Family IPF Architecture server and is the first implementation of the 64 bit IBM XA 64 chipset as part of the Enterprise X Architecture strategy This IBM Redbooks publication is a comprehensive resource on the technical aspects of the server and is divided into five key subject areas Chapter 1 Technical description introduces the server and its subsystems and describes the key features and how they work This includes the new Extensible Firmware Interface which provides a powerful replacement to the BIOS facility found on the IA 32 platform Chapter 2 Positioning examines the types of applications that would be used on a server such as the x450 Chapter 3 Planning describes the considerations when planning to purchase and planning to install the x450 It covers such topics as configuration operating system specifics scalability and physical site planning Chapter 4 Installation covers the process of installing Windows Server 2003 Enterprise Edition and SuSE Linux Enterprise Server on the x450 Chapter 5 Management describes how to use the Remote Supervisor Adapter to send alerts to an IBM Director management environment **IBM Spectrum Scale and IBM Elastic Storage System Network Guide** Kedar Karmarkar,John Lewars,Sandeep R. Patil,Sandeep Naik,Kevin Gildea,Rakesh Chutke,Larry Coyne,IBM Redbooks,2021-02-17 High speed I O workloads are moving away from the SAN to Ethernet and IBM Spectrum Scale is pushing the network limits The IBM Spectrum Scale team discovered that many infrastructure Ethernet networks that were used for years to support various applications are not designed to provide a high performance data path concurrently to many clients from many servers IBM Spectrum Scale is not the first product to use Ethernet for storage access Technologies such as Fibre Channel over Ethernet FCoE scale out NAS and IP connected storage iSCSI and others use Ethernet though IBM Spectrum Scale as the leader in parallel I O performance which provides the best performance and value when used on a high performance network This IBM Redpaper publication is based on lessons that were learned in the field by deploying IBM Spectrum Scale on Ethernet and InfiniBand networks This IBM Redpaper publication answers several questions such as How can I prepare my network for high performance storage How do I know when I am ready and How can I tell what is wrong when deploying IBM Spectrum Scale and IBM Elastic Storage Server ESS This document can help IT architects get the design correct from the beginning of the process It also can help the IBM Spectrum Scale administrator work effectively with the networking team to quickly resolve issues [IBM Eserver XSeries 455 Planning and Installation Guide](#) David Watts,Aubrey Applewhaite,Yonni Meza,2004 [IBM InfoSphere Information Server Installation and Configuration Guide](#) Patrick (Danny) Owen,2011 *IBM Extended Service/2* IBM.,1991 **IBM EServer ZSeries 900 Technical Guide** Franck Injeay,2002 This edition of the IBM eServer zSeries 900 Technical Guide contains additional and updated information on the following topics New 16 Turbo models Customer Initiated Upgrade CIU

support Concurrent memory upgrades Concurrent undo Capacity BackUp CBU OSA E High Speed Token Ring support OSA Express enhancements Enhanced IBM PCI Cryptographic Accelerator PCICA for security Customer defined UDXs FICON Express channel cards CTC support Cascading Directors support 2Gbit/sec links Fibre Channel Protocol FCP support for SCSI devices HiperSockets support Intelligent Resource Director IRD LPAR CPU Management support for non z OS logical partitions System Managed Coupling Facility Structure Duplexing Message Time Ordering for Parallel Sysplex 64 bit support for Coupling Facility RMF support for PCICA PCICC and CCF RMF reporting on System Assist Processor SAP Note that a chapter containing information on connectivity has been added to this edition as well as a new appendix describing fiber cabling services This IBM Redbooks publication is intended for IBM systems engineers consultants and customers who need the latest information on z900 features functions availability and services **IBM System Storage DS3000** Sangam Racherla, 2009 Server Time Protocol Planning Guide Octavian Lascu, Hans-Peter Eckam, George Kozakos, Paulo Vitor Pereira, IBM Redbooks, 2016-04-12 Server Time Protocol STP is a server wide facility that is implemented in the Licensed Internal Code LIC of the IBM zEnterprise Servers zEC12 z196 and z114 System z10™ Enterprise Class z10 EC System z10 Business Class z10 BC IBM System z9 Enterprise Class z9 EC System z9 Business Class z9 BC and zSeries z990 and z890 servers It provides improved time synchronization in a sysplex or non sysplex configuration This IBM Redbooks publication is intended for infrastructure architects and system programmers who need to understand the IBM STP functions Readers are expected to be generally familiar with System z technology and terminology This book provides planning information for Server Time Protocol functions and associated software support For more detailed installation operation and recovery information refer to the companion books Server Time Protocol Implementation Guide SG24 7281 and Server Time Protocol Recovery Guide SG24 7380 *IBM 3270 Information Display System* IBM., 1990 **Server Time Protocol Recovery Guide** IBM Redbooks, 2010 **IBM VSE/Enterprise Systems Architecture** IBM., 1991 IBM System Storage DS3000 Jure Arzenšek, 2007-01-01 IBM Spectrum Protect Plus Practical Guidance for Deployment, Configuration, and Usage Bert Dufrasne, Gerd Becker, Chris Bode, Alberto Delgado Ramos, Andre Gaschler, Axel Westphal, Mikael Lindström, Peter Minig, Julien Sauvanet, Martin Stuber, Markus Stumpf, Jozef Uriča, Joerg Walter, Daniel Wendler, IBM Redbooks, 2021-03-31 IBM Spectrum Protect Plus is a data protection solution that provides near instant recovery replication retention management and reuse for virtual machines databases and applications backups in hybrid multicloud environments IBM Knowledge Center for IBM Spectrum Protect Plus provides extensive documentation for installation deployment and usage In addition build and size an IBM Spectrum Protect Plus solution The goal of this IBM Redpaper publication is to summarize and complement the available information by providing useful hints and tips that are based on the authors practical experience in installing and supporting IBM Spectrum Protect Plus in customer environments Over time our aim is to compile a set of best practices that cover all aspects of the product from planning and installation to tuning maintenance and troubleshooting **IBM Eserver**

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