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

Product Guide
December 2009

IBM System x3550 M2

Product Overview

Outstanding innovation in only 1U

Suggested Uses: All sectors requiring highly available, energy-efficient, rack-optimized solution for physical and virtual Internet commercial environments like eBusiness/eCommerce, collaboration, virtualization, database, 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 **dual-socket 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 resiliency that comes from no single point of failure. And like all 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 X-Architecture servers. It is a game-changing, completely redesigned rack server using significantly less power with unified systems management tools, leadership reliability, availability, serviceability features and tiered systems flexibility housed in a compact 1U mechanical package.

The x3550 M2 features Intel® **Xeon® 5500** Series **quad-core** and **dual-core** processors and either **8MB** or **4MB** of shared **cache**, 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 x3550M2 uses up to **18 DIMMs** with **128GB** of **registered** 1333MHz **DDR3** memory with **Chipkill™ ECC** (Error Checking and Correcting) protection—for high performance and reliability. For even higher levels of availability, the x3550M2 also offers online memory mirroring. **Up to 8** integrated high-speed **Gigabit Ethernet** controllers with **TOE** (TCP Offload Engine) and **Jumbo Frame** support are available, as are two high-performance adapter slots (**PCIe x16**). The x3550M2 offers an optional **embedded hypervisor** to manage your virtual workloads.

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 **2.5-inch hot-swap Serial-Attached SCSI** (SAS) or **SATA** HDDs). Optional solid-state drives are also available to keep power low and improve resiliency and offer up to **800GB** of storage. The server supports a choice of four IBM ServeRAID™ storage controllers which provides broad levels of hardware-based **RAID solutions**. The ultra-dense 1U form factor allows 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 minimizes 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 IMM, 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. What's innovative pop-out/drop-down **light path diagnostics** panel enables quick servicing of the system if a problem develops. These advanced features help maximize network availability by increasing uptime, as do hot **simple-swap 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 Textured Cooling™**, **PCIe 2.0** support, including **highly secure remote power control** and **Serial over LAN**, as well as **text-console redirect over LAN**.

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IBM Midrange System Storage Hardware Guide Sangam Racherla,Bruce Allworth,Alessio Bagnaresi,Chris Bogdanowicz,Corne Lottering,Pablo Pedrazas,Frank Schubert,John Sexton,Alexander Watson,IBM Redbooks,2010-03-16 This IBM Redbooks publication consolidates in one document detailed descriptions of the hardware configurations and options offered as part of the IBM Midrange System StorageTM servers which include the IBM System Storage DS4000 and DS5000 families of products This edition covers updates and additional functions available with the IBM System Storage DS Storage Manager Version 10 60 firmware level 7 60 This book presents the concepts and functions used in planning and managing the storage servers such as multipathing and path failover The book offers a step by step guide to using the Storage Manager to create arrays logical drives and other basic as well as advanced management tasks This publication also contains practical information about diagnostics and troubleshooting and includes practical examples of how to use scripts and the command line interface This publication is intended for customers IBM Business Partners and IBM technical professionals who want to learn more about the capabilities and advanced functions of the DS4000 series of storage servers with Storage Manager Software V10 60 It also targets those who have a DS4000 and DS5000 storage subsystem and need detailed advice about how to configure it **IBM System Storage DS5000 Series Hardware Guide** Sangam Racherla,Matus Butora,Antonio Dell'Apa,Mario Ganem,Corne Lottering,Libor Miklas,Hrvoje Stanilovic,Alexander Watson,IBM Redbooks,2013-01-10 This IBM Redbooks publication consolidates in one document detailed descriptions of the hardware configurations and options offered as part of the IBM System Storage DS5000 families of products This edition covers updates and additional functions available with the IBM System Storage DS Storage Manager Version 10 77 firmware level 7 77 This book presents the concepts and functions used in planning and managing the storage servers such as multipathing and path failover The book offers a step by step guide to using the Storage Manager to create arrays logical drives and other basic as well as advanced management tasks This publication also contains practical information about diagnostics and troubleshooting and includes practical examples of how to use scripts and the command line interface This publication is intended for customers IBM Business Partners and IBM technical professionals who want to learn more about the capabilities and advanced functions of the DS5000 series of storage servers with Storage Manager Software V10 77 It also targets those who have a DS5000 storage subsystem and need detailed advice about how to configure it This book is designed specifically to address the hardware features and configuration of the IBM System Storage DS5000 family and can be used in conjunction with the following IBM Redbooks publications IBM System Storage DS5000 Series Implementation and Best Practices Guide SG24 8024 IBM System Storage DS Storage Manager Copy Services Guide SG24 7822 *IBM Midrange System Storage Implementation and Best Practices Guide* Sangam Racherla,Bruce Allworth,Alessio Bagnaresi,Chris Bogdanowicz,Corne Lottering,Pablo Pedrazas,Frank Schubert,John Sexton,Alexander Watson,IBM Redbooks,2010-03-31 This IBM Redbooks publication

represents a compilation of best practices for deploying and configuring IBM Midrange System StorageTM servers which include the DS4000 and the DS5000 family of products This book is intended for IBM technical professionals Business Partners and customers responsible for the planning deployment and maintenance of the IBM Midrange System Storage family of products We realize that setting up DS4000 and DS5000 Storage Servers can be a complex task There is no single configuration that will be satisfactory for every application or situation First we provide a conceptual framework for understanding the hardware in a Storage Area Network Then we offer our guidelines hints and tips for the physical installation cabling and zoning using the Storage Manager setup tasks After that we turn our attention to the performance and tuning of various components and features including numerous guidelines We look at performance implications for various application products such as DB2 Oracle Tivoli Storage Manager Microsoft SQL server and in particular Microsoft Exchange with IBM Midrange System Storage servers Then we review the various tools available to simulate workloads and to measure collect and analyze performance data We also consider the AIX environment including High Availability Cluster Multiprocessing HACMPTM and General Parallel File System GPFSTM Finally we provide a quick guide to the storage server installation and configuration using best practices This edition of the book also includes guidelines for managing and using the DS4000 and DS5000 with the IBM System Storage SAN Volume Controller SVC **IBM System Storage N series Reference Architecture for Virtualized Environments** Roland Tretau,Jacky Ben-Bassat,Craig Thompson,IBM Redbooks,2014-06-13 This IBM Redbooks publication provides deployment guidelines workload estimates and preferred practices for clients who want a proven IBM technology stack for virtualized VMware and Microsoft environments The result is a Reference Architecture for Virtualized Environments RAVE that uses VMware vSphere or Microsoft Hypervisor IBM System x or IBM BladeCenter server IBM System Networking and IBM System Storage N series with Clustered Data ONTAP as a storage foundation The reference architecture can be used as a foundation to create dynamic cloud solutions and make full use of underlying storage features and functions This book provides a blueprint that illustrates how clients can create a virtualized infrastructure and storage cloud to help address current and future data storage business requirements It explores the solutions that IBM offers to create a storage cloud solution addressing client needs This book also shows how the Reference Architecture for Virtualized Environments and the extensive experience of IBM in cloud computing services proven technologies and products support a Smart Storage Cloud solution that is designed for your storage optimization efforts This book is for anyone who wants to learn how to successfully deploy a virtualized environment It is also written for anyone who wants to understand how IBM addresses data storage and compute challenges with IBM System Storage N series solutions with IBM servers and networking solutions This book is suitable for IT architects business partners IBM clients storage solution integrators and IBM sales representatives IBM Storage DS8A00 Architecture and Implementation Guide: Updated for Release 10.1 Vasfi Gucer,Thorsten Altmannsberger,Sherry Brunson,Reo K B,Nielson (Nino) de

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