

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

IBM



Product Guide

December 2009

IBM System x3550 M2

Product Overview

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Outstanding innovation in only 1U

Suggested Uses: All sectors requiring highly available, energy-efficient, rack-optimized solution for physical and virtual intensive 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 broad systems flexibility housed in a compact 1U mechanical package.

The x3550 M2 features Intel® Xeon® 5500 Series 4-core and 2-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. This 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 **16 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 **4** 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 **300GB** of storage. The server supports a choice of four IBM ServeRAID® storage controllers which provide broad levels of hardware-based **RAID** solutions. The ultradense 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. IBM'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 Vectored Cooling**®, **IPMI 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 System Storage N Series Multiprotocol Use Guide IBM Redbooks,Alex Osuna,Gary R. Nunn,Ellie Berriman,2007-01-01 IBM System 360 International Business Machines Corporation. Data Processing Division,1968

IBM System/360 International Business Machines Corporation. Data Processing Division,1970 **IBM System Storage DS3000** Sangam Racherla,2009 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 compliments 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 System/360** ,1968 TSS/360 ,1976 **IBM system/360 time sharing system** ,1976 IBM System/360 Disk Operating System International Business Machines Corporation,1966 **IBM System/360 Operating System** International Business Machines Corporation. Data Processing Division,1969 IBM Power Systems Virtual Server Guide for IBM i Dino Quintero,Jose Martin Abeleira,Adriano Almeida,Marcelos Avalos,Sanjeev Chhabra,Michael Easlon,Luis Ferreira,Ahmad Y Hussein,Diego Kesselman,Sergio Leyva,Gabriel Padilla Jimenez,Bogdan Savu,Deepak C Shetty,Luis Eduardo Silva Viera,Travis Siegfried,IBM Redbooks,2022-03-30 This IBM Redbooks publication delivers a how to usage content perspective that describes deployment networking and data management tasks on the IBM Power Systems Virtual Server by using sample scenarios During the content development the team used available documentation IBM Power Systems Virtual Server environment and other software and hardware resources to document the following information IBM Power Systems Virtual Server networking and data management deployment scenarios Migrations use case scenarios Backups case scenarios Disaster recovery case scenarios This book addresses topics for IT architects IT specialists

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provide improved performance for most IBM Z tape workloads when compared to the previous generations of IBM TS7700

IBM System/360 Time Sharing System International Business Machines Corporation,1971 **IBM System Storage DS3500 Introduction and Implementation Guide** IBM Redbooks,2011-05-20 [IBM System/360 Operating System](#) International Business Machines Corporation. Data Processing Division,1970 **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 **SAN Boot Implementation and Best Practices Guide for IBM System Storage** ,2012 **IBM System X3850 X6 and X3950 X6 Planning and Implementation Guide** IBM Redbooks,2014-05-30

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