

Workload manager

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Workload Manager (WLM) is designed to provide the system administrator with increased control over how the scheduler, virtual memory manager (VMM) and the disk I/O subsystem allocate resources to processes.

You can use WLM to prevent different classes of jobs from interfering with each other and to allocate resources based on the requirements of different groups of users.

Attention: Efficient use of WLM requires extensive knowledge of existing system processes and performance. If the system administrator configures WLM with extreme or inaccurate values, performance will be significantly degraded.

WLM is primarily intended for use with large systems. Large systems are often used for server consolidation, in which workloads from many different server systems (such as printers, databases, general user, and transaction processing systems) are combined into a single large system to reduce the cost of system maintenance. These workloads often interfere with each other and have different goals and service agreements.

WLM also provides isolation between user communities with very different system behaviors. This can prevent effective starvation of workloads with certain behaviors (for example, interactive or low CPU usage jobs) by workloads with other behaviors (for example, batch or high memory usage jobs).

Also, WLM ties into the accounting subsystem allowing users to do resource usage accounting per WLM class in addition to the standard accounting per user or group.

Workload management concepts

With WLM, you can create different classes of service for jobs, as well as specify attributes for these classes.

Administering Workload Manager

Workload Manager (WLM) gives system administrators more control over how the scheduler and the virtual memory manager (VMM) allocate resources to processes. Using WLM, you can prevent different classes of jobs from interfering with each other and you can allocate resources based on the requirements of different groups of users.

Classes

Workload Manager helps you control the allocation of system resources by defining classes of service and allocating resources to each of these classes.

Process classifications in Workload Manager

In WLM, processes can be classified in either of two ways.

Resource management with Workload Manager

WLM monitors and regulates the resource utilization, on a per-class basis, of the threads and processes active on the system. You can set minimum or maximum limits per class for each resource type managed by WLM, as well as a target value per class for each resource.

Setting up Workload Manager

Class definitions, class attributes, the shares and limits, and the automatic class assignment rules, can be entered using SMCT, or the WLM command-line interface. These definitions and rules are kept in plain text files, that can also be created or modified using a text editor.

Troubleshooting Workload Manager

If you are not seeing the desired behavior with your current configuration, you might need to adjust your WLM configuration.

Workload Manager API

Applications can use the WLM APIs, a set of routines in the `/usr/lib/libwlm.a` library, to perform all the tasks that a WLM administrator can perform using the WLM command-line interface.

Examples of Workload Manager classification, rules, and limits

Several methods exist for classifying a process, and all operate concurrently.

Workload Manager commands

WLM offers commands that allow system administrators to perform a variety of functions.

Ibm Wlm Manual

**Chris Almond,Janis Byrd,Joseph
Kiernan,Livio Teixeira Filho,Phill
Rowbottom,IBM Redbooks**

Ibm Wlm Manual:

IBM zEnterprise 114 Technical Guide Bill White, Octavian Lascu, Erik Bakker, Parwez Hamid, Fernando Nogal, Frank Packheiser, Vicente Ranieri Jr., Karl-Erik Stenfors, Esra Ufacik, Chen Zhu, IBM Redbooks, 2012-02-27 The popularity of the Internet and the affordability of IT hardware and software have resulted in an explosion of applications architectures and platforms Workloads have changed Many applications including mission critical ones are deployed on a variety of platforms and the System z design has adapted to this change It takes into account a wide range of factors including compatibility and investment protection to match the IT requirements of an enterprise This IBM Redbooks publication discusses the IBM zEnterprise System an IBM scalable mainframe server IBM is taking a revolutionary approach by integrating separate platforms under the well proven System z hardware management capabilities while extending System z qualities of service to those platforms The zEnterprise System consists of the IBM zEnterprise 114 central processor complex the IBM zEnterprise Unified Resource Manager and the IBM zEnterprise BladeCenter Extension The z114 is designed with improved scalability performance security resiliency availability and virtualization The z114 provides up to 18% improvement in uniprocessor speed and up to a 12% increase in total system capacity for z OS z VM and Linux on System z over the z10™ Business Class BC The zBX infrastructure works with the z114 to enhance System z virtualization and management through an integrated hardware platform that spans mainframe POWER7™ and System x technologies The federated capacity from multiple architectures of the zEnterprise System is managed as a single pool of resources integrating system and workload management across the environment through the Unified Resource Manager This book provides an overview of the zEnterprise System and its functions features and associated software support Greater detail is offered in areas relevant to technical planning This book is intended for systems engineers consultants planners and anyone wanting to understand the zEnterprise System functions and plan for their usage It is not intended as an introduction to mainframes Readers are expected to be generally familiar with existing IBM System z technology and terminology **IBM zEnterprise 196**

Technical Guide Bill White, Erik Bakker, Parwez Hamid, Octavian Lascu, Fernando Nogal, Frank Packheiser, Vicente Ranieri Jr., Karl-Erik Stenfors, Esra Ufacik, Chen Zhu, IBM Redbooks, 2012-03-19 The popularity of the Internet and the affordability of IT hardware and software have resulted in an explosion of applications architectures and platforms Workloads have changed Many applications including mission critical ones are deployed on a variety of platforms and the System z design has adapted to this change It takes into account a wide range of factors including compatibility and investment protection to match the IT requirements of an enterprise The zEnterprise System consists of the IBM zEnterprise 196 central processor complex the IBM zEnterprise Unified Resource Manager and the IBM zEnterprise BladeCenter Extension The z196 is designed with improved scalability performance security resiliency availability and virtualization The z196 Model M80 provides up to 1 6 times the total system capacity of the z10™ EC Model E64 and all z196 models provide up to twice the available memory of

the z10 EC The zBX infrastructure works with the z196 to enhance System z virtualization and management through an integrated hardware platform that spans mainframe POWER7™ and System x technologies Through the Unified Resource Manager the zEnterprise System is managed as a single pool of resources integrating system and workload management across the environment This IBM Redbooks publication provides an overview of the zEnterprise System and its functions features and associated software support Greater detail is offered in areas relevant to technical planning This book is intended for systems engineers consultants planners and anyone wanting to understand the zEnterprise System functions and plan for their usage It is not intended as an introduction to mainframes Readers are expected to be generally familiar with existing IBM System z technology and terminology The changes to this edition are based on the System z hardware announcement dated July 12 2011

Using IBM z/OS WLM to Measure Mobile and Other Workloads IBM Client Center Montpellier, Nigel Williams, Olivier Boehler, Philippe Bruschet, Francois Capristo, Alexis Chretienne, Stéphane Faure, Richard Gamblin, Fabrice Jarassat, Arnaud Mante, Irene Stahl, IBM Redbooks, 2016-10-25 This IBM Redpaper™ publication discusses the need to monitor and measure different workloads especially mobile workloads It introduces the workload classification capabilities of IBM z Systems™ platforms and helps you to understand how recent enhancements to IBM MVST™ Workload Management WLM and other IBM software products can be used to measure the processor cost of mobile workloads This paper looks at how mobile initiated and other transactions in IBM CICS IMST™ DB2 and WebSphere Application Server can be tagged and tracked using WLM For each of these subsystems the options for classifying mobile requests and using WLM to measure mobile workloads are reviewed A scenario is considered in which a bank is witnessing a significant growth in mobile initiated transactions and wants to monitor and measure the mobile channels more closely This paper outlines how the bank can use WLM to do this This publication can help you to configure WLM mobile classification rules It can also help you to interpret Workload Activity reports from IBM RMFT™ Post Processor and to report on the CPU consumption of different workloads including mobile and public cloud workloads

IBM z14 ZR1 Technical Guide Octavian Lascu, Hervey Kamga, Frank Packheiser, Martijn Raave, John Troy, Bill White, IBM Redbooks, 2018-12-17 This IBM Redbooks publication describes the new member of the IBM Z family IBM z14™ Model ZR1 Machine Type 3907 It includes information about the Z environment and how it helps integrate data and transactions more securely and can infuse insight for faster and more accurate business decisions The z14 ZR1 is a state of the art data and transaction system that delivers advanced capabilities which are vital to any digital transformation The z14 ZR1 is designed for enhanced modularity in an industry standard footprint A data centric infrastructure must always be available with a 99.999% or better availability have flawless data integrity and be secured from misuse It also must be an integrated infrastructure that can support new applications Finally it must have integrated capabilities that can provide new mobile capabilities with real time analytics that are delivered by a secure cloud infrastructure IBM z14 ZR1 servers are designed with improved scalability performance

security resiliency availability and virtualization The superscalar design allows z14 ZR1 servers to deliver a record level of capacity over the previous IBM Z platforms In its maximum configuration z14 ZR1 is powered by up to 30 client characterizable microprocessors cores running at 4.5 GHz This configuration can run more than 29 000 million instructions per second and up to 8 TB of client memory The IBM z14 Model ZR1 is estimated to provide up to 54% more total system capacity than the IBM z13s Model N20 This Redbooks publication provides information about IBM z14 ZR1 and its functions features and associated software support More information is offered in areas that are relevant to technical planning It is intended for systems engineers consultants planners and anyone who wants to understand the IBM Z servers functions and plan for their usage It is intended as an introduction to mainframes Readers are expected to be generally familiar with IBM Z technology and terminology

IBM Certification Study Guide eServer p5 and pSeries Administration and Support for AIX 5L Version 5.3 Scott Vetter, Jose Eduardo Martinez Cordero, Shiv Dutta, Liviu Rosca, Gilvan Pereira da Silva, Kristof Stroobants, IBM Redbooks, 2010-09-22 This IBM Redbooks publication is designed as a study guide for professionals wishing to prepare for the certification exam Test 222 to achieve IBM Certified Specialist eServer p5 and pSeries Administration and Support for AIX 5L Version 5.3 The certification validates a broad scope of AIX 5L administration support problem determination skills and the ability to perform general AIX 5L software system maintenance This book helps AIX 5L professionals seeking a comprehensive and task oriented guide for developing the knowledge and skills required for the certification It is designed to provide a combination of theory and practical experience needed for a general understanding of the subject matter This book does not replace practical experience you should have but is an effective tool that when combined with education activities and experience should prove to be a very useful preparation guide for the exam Due to the practical nature of the certification content this publication can also be used as a desk side reference So whether you are planning to take the eServer p5 and pSeries Administration and Support for AIX 5L Version 5.3 certification exam or if you just want to validate your AIX 5L skills this book is for you

IBM zEnterprise BC12 Technical Guide Octavian Lascu, Hua Bin Chu, Ivan Dobos, Luiz Fadel, Wolfgang Fries, Parwez Hamid, Fernando E Nogal, Frank Packheiser, Ewerson Palacio, Martijn Raave, Vicente Ranieri Jr., Andre Spahni, Chen Zhu, IBM Redbooks, 2015-03-03 The popularity of the Internet and the affordability of information technology IT hardware and software have resulted in an explosion dramatic increase in the number of applications architectures and platforms Workloads have changed Many applications including mission critical ones are deployed on a variety of platforms and the IBM System z design has adapted to this change It takes into account a wide range of factors including compatibility and investment protection to match the IT requirements of an enterprise This IBM Redbooks publication provides information about the IBM zEnterprise BC12 zBC12 an IBM scalable mainframe server IBM is taking a revolutionary approach by integrating separate platforms under the well proven System z hardware management capabilities while extending System z qualities of service to those platforms The zEnterprise System consists of

the zBC12 central processor complex the IBM zEnterprise Unified Resource Manager and the IBM zEnterprise BladeCenter Extension zBX The zBC12 is designed with improved scalability performance security resiliency availability and virtualization The zBC12 provides the following improvements over its predecessor the IBM zEnterprise 114 z114 Up to a 36% performance boost per core running at 4.2 GHz Up to 58% more capacity for traditional workloads Up to 62% more capacity for Linux workloads The zBX infrastructure works with the zBC12 to enhance System z virtualization and management through an integrated hardware platform that spans mainframe IBM POWER7 and IBM System x technologies The federated capacity from multiple architectures of the zEnterprise System is managed as a single pool of resources integrating system and workload management across the environment through the Unified Resource Manager This book provides an overview of the zBC12 and its functions features and associated software support Greater detail is offered in areas relevant to technical planning This book is intended for systems engineers consultants planners and anyone who wants to understand zEnterprise System functions and plan for their usage It is not intended as an introduction to mainframes Readers are expected to be generally familiar with existing IBM System z technology and terminology

IBM zEnterprise EC12 Technical Guide
Octavian Lascu,Ivan Dobos,Wolfgang Fries,Hua Bin Chu,Luiz Fadel,Martijn Raave,Fernando Nogal,Frank Packheiser,Vicente Ranieri,Ewerson Palacio,Andre Spahni,Chen Zhu,Parwez Hamid,IBM Redbooks,2015-03-04

The popularity of the Internet and the affordability of IT hardware and software have resulted in an explosion of applications architectures and platforms Workloads have changed Many applications including mission critical ones are deployed on various platforms and the IBM System z design has adapted to this change It takes into account a wide range of factors including compatibility and investment protection to match the IT requirements of an enterprise This IBM Redbooks publication addresses the new IBM zEnterprise System This system consists of the IBM zEnterprise EC12 zEC12 an updated IBM zEnterprise Unified Resource Manager and the IBM zEnterprise BladeCenter Extension zBX Model 003 The zEC12 is designed with improved scalability performance security resiliency availability and virtualization The superscalar design allows the zEC12 to deliver a record level of capacity over the prior System z servers It is powered by 120 of the world's most powerful microprocessors These microprocessors run at 5.5 GHz and are capable of running more than 75 000 millions of instructions per second MIPS The zEC12 Model HA1 is estimated to provide up to 50% more total system capacity than the IBM zEnterprise 196 z196 Model M80 The zBX Model 003 infrastructure works with the zEC12 to enhance System z virtualization and management It does so through an integrated hardware platform that spans mainframe IBM POWER7 and IBM System x technologies Through the Unified Resource Manager the zEnterprise System is managed as a single pool of resources integrating system and workload management across the environment This book provides information about the zEnterprise System and its functions features and associated software support Greater detail is offered in areas relevant to technical planning It is intended for systems engineers consultants planners and anyone who wants to understand the zEnterprise System functions and plan for their

usage It is not intended as an introduction to mainframes Readers are expected to be generally familiar with existing IBM System z technology and terminology **IBM z13s Technical Guide** Octavian Lascu,Barbara Sannerud,Cecilia A. De Leon,Edzard Hoogerbrug,Ewerson Palacio,Franco Pinto,Jin J. Yang,John P. Troy,Martin Soellig,IBM Redbooks,2016-11-10

Digital business has been driving the transformation of underlying information technology IT infrastructure to be more efficient secure adaptive and integrated IT must be able to handle the explosive growth of mobile clients and employees It also must be able to process enormous amounts of data to provide deep and real time insights to help achieve the greatest business impact This IBM Redbooks publication addresses the new IBM z Systems™ single frame the IBM z13s server IBM z Systems servers are the trusted enterprise platform for integrating data transactions and insight A data centric infrastructure must always be available with a 99 999% or better availability have flawless data integrity and be secured from misuse It needs to be an integrated infrastructure that can support new applications It also needs to have integrated capabilities that can provide new mobile capabilities with real time analytics delivered by a secure cloud infrastructure IBM z13s servers are designed with improved scalability performance security resiliency availability and virtualization The superscalar design allows z13s servers to deliver a record level of capacity over the prior single frame z Systems server In its maximum configuration the z13s server is powered by up to 20 client characterizable microprocessors cores running at 4 3 GHz This configuration can run more than 18 000 millions of instructions per second MIPS and up to 4 TB of client memory The IBM z13s Model N20 is estimated to provide up to 100% more total system capacity than the IBM zEnterprise BC12 Model H13 This book provides information about the IBM z13s server and its functions features and associated software support Greater detail is offered in areas relevant to technical planning It is intended for systems engineers consultants planners and anyone who wants to understand the IBM z Systems™ functions and plan for their usage It is not intended as an introduction to mainframes Readers are expected to be generally familiar with existing IBM z Systems technology and terminology IBM z13 Technical Guide Octavian Lascu,Edzard Hoogerbrug,Cecilia A De Leon,Ewerson Palacio,Franco Pinto,Barbara Sannerud,Martin Soellig,John Troy,Jin Yang,IBM Redbooks,2016-11-11

Digital business has been driving the transformation of underlying IT infrastructure to be more efficient secure adaptive and integrated Information Technology IT must be able to handle the explosive growth of mobile clients and employees IT also must be able to use enormous amounts of data to provide deep and real time insights to help achieve the greatest business impact This IBM Redbooks publication addresses the IBM Mainframe the IBM z13™ The IBM z13 is the trusted enterprise platform for integrating data transactions and insight A data centric infrastructure must always be available with a 99 999% or better availability have flawless data integrity and be secured from misuse It needs to be an integrated infrastructure that can support new applications It needs to have integrated capabilities that can provide new mobile capabilities with real time analytics delivered by a secure cloud infrastructure IBM z13 is designed with improved scalability performance security resiliency

availability and virtualization The superscalar design allows the z13 to deliver a record level of capacity over the prior IBM z Systems™ In its maximum configuration z13 is powered by up to 141 client characterizable microprocessors cores running at 5 GHz This configuration can run more than 110 000 millions of instructions per second MIPS and up to 10 TB of client memory The IBM z13 Model NE1 is estimated to provide up to 40% more total system capacity than the IBM zEnterprise EC12 zEC1 Model HA1 This book provides information about the IBM z13 and its functions features and associated software support Greater detail is offered in areas relevant to technical planning It is intended for systems engineers consultants planners and anyone who wants to understand the IBM z Systems functions and plan for their usage It is not intended as an introduction to mainframes Readers are expected to be generally familiar with existing IBM z Systems technology and terminology

IBM z14 (3906) Technical Guide Octavian Lascu, IBM Redbooks, 2018-12-17 This IBM Redbooks publication describes the new member of the IBM Z family IBM z14™ IBM z14 is the trusted enterprise platform for pervasive encryption integrating data transactions and insights into the data A data centric infrastructure must always be available with a 99 999% or better availability have flawless data integrity and be secured from misuse It also must be an integrated infrastructure that can support new applications Finally it must have integrated capabilities that can provide new mobile capabilities with real time analytics that are delivered by a secure cloud infrastructure IBM z14 servers are designed with improved scalability performance security resiliency availability and virtualization The superscalar design allows z14 servers to deliver a record level of capacity over the prior IBM Z platforms In its maximum configuration z14 is powered by up to 170 client characterizable microprocessors cores running at 5 2 GHz This configuration can run more than 146 000 million instructions per second MIPS and up to 32 TB of client memory The IBM z14 Model M05 is estimated to provide up to 35% more total system capacity than the IBM z13 Model NE1 This Redbooks publication provides information about IBM z14 and its functions features and associated software support More information is offered in areas that are relevant to technical planning It is intended for systems engineers consultants planners and anyone who wants to understand the IBM Z servers functions and plan for their usage It is intended as an introduction to mainframes Readers are expected to be generally familiar with existing IBM Z technology and terminology

Sun Solaris to IBM AIX 5L Migration: A Guide for System Administrators Chris Almond, Janis Byrd, Joseph Kiernan, Livio Teixeira Filho, Phill Rowbottom, IBM Redbooks, 2007-04-17 The aim of this IBM Redbooks publication is to provide a technical reference for IT system administrators in organizations that are considering a migration from Sun Solaris to IBM AIX 5L based systems This book presents a system administrator view of the technical differences that exist and the methods that are necessary to complete a successful migration to AIX 5L based systems This book is designed primarily as a reference for experienced Sun Solaris 8 or 9 system administrators who will be working with AIX 5L This book is not an AIX 5L administration how to book for system administrators who are beginners but rather a guide for experienced administrators who have to translate a given Solaris system administration task to AIX 5L

IBM WebSphere Application Server V8 Concepts, Planning, and Design Guide Margaret Ticknor, Alan Corcoran, Balazs Csepregi-Horvath, Addison Goering, Jose Pablo Hernandez, Julien Limodin, Sergio Straessli Pinto, IBM Redbooks, 2011-09-14 This IBM Redbooks publication provides information about the concepts planning and design of IBM WebSphere Application Server V8 environments The target audience of this book is IT architects and consultants who want more information about the planning and designing of application serving environments from small to large and complex implementations This book addresses the packaging and features in WebSphere Application Server V8 and highlights the most common implementation topologies It provides information about planning for specific tasks and components that conform to the WebSphere Application Server environment Also in this book are planning guidelines for WebSphere Application Server V8 and WebSphere Application Server Network Deployment V8 on distributed platforms and for WebSphere Application Server for z OS V8 This book contains information about migration considerations when moving from previous releases

IBM System Storage Solutions Handbook Ezgi Coskun, Mikael Lindström, Maciej Olejniczak, Oliver Stark, Megan Gilge, IBM Redbooks, 2016-07-15 The IBM System Storage Solutions Handbook helps you solve your current and future data storage business requirements It helps you achieve enhanced storage efficiency by design to allow managed cost capacity of growth greater mobility and stronger control over storage performance and management It describes the most current IBM storage products including the IBM Spectrum™ family IBM FlashSystem disk and tape as well as virtualized solutions such IBM Storage Cloud This IBM Redbooks publication provides overviews and information about the most current IBM System Storage products It shows how IBM delivers the right mix of products for nearly every aspect of business continuance and business efficiency IBM storage products can help you store safeguard retrieve and share your data This book is intended as a reference for basic and comprehensive information about the IBM Storage products portfolio It provides a starting point for establishing your own enterprise storage environment This book describes the IBM Storage products as of March 2016

IBM z15 (8562) Technical Guide Octavian Lascu, IBM Redbooks, 2021-04-28 This IBM Redbooks publication describes the features and functions the latest member of the IBM Z platform the IBM z15™ Model T02 machine type 8562 It includes information about the IBM z15 processor design I O innovations security features and supported operating systems The z15 is a state of the art data and transaction system that delivers advanced capabilities which are vital to any digital transformation The z15 is designed for enhanced modularity which is in an industry standard footprint This system excels at the following tasks Making use of multicloud integration services Securing data with pervasive encryption Accelerating digital transformation with agile service delivery Transforming a transactional platform into a data powerhouse Getting more out of the platform with IT Operational Analytics Accelerating digital transformation with agile service delivery Revolutionizing business processes Blending open source and Z technologies This book explains how this system uses new innovations and traditional Z strengths to satisfy growing demand for cloud analytics and open

source technologies With the z15 as the base applications can run in a trusted reliable and secure environment that improves operations and lessens business risk IBM z15 (8561) Technical Guide Octavian Lascu,John Troy,Jannie Houlbjerg, Frank Packheiser,Paul Schouten,Kazuhiro Nakajima,Anna Shugol,Hervey Kamga,Bo XU,IBM Redbooks,2022-07-13 This IBM Redbooks publication describes the features and functions the latest member of the IBM Z platform the IBM z15™ machine type 8561 It includes information about the IBM z15 processor design I O innovations security features and supported operating systems The z15 is a state of the art data and transaction system that delivers advanced capabilities which are vital to any digital transformation The z15 is designed for enhanced modularity which is in an industry standard footprint This system excels at the following tasks Making use of multicloud integration services Securing data with pervasive encryption Accelerating digital transformation with agile service delivery Transforming a transactional platform into a data powerhouse Getting more out of the platform with IT Operational Analytics Accelerating digital transformation with agile service delivery Revolutionizing business processes Blending open source and Z technologies This book explains how this system uses new innovations and traditional Z strengths to satisfy growing demand for cloud analytics and open source technologies With the z15 as the base applications can run in a trusted reliable and secure environment that improves operations and lessens business risk The Complete Guide to CICS Transaction Gateway Volume 1 Configuration and Administration Rufus Credle,Sue Bayliss,Leigh Compton,Robert Jones,Manuela Mandelli,Richard Mercadante,IBM Redbooks,2014-08-08 In this IBM Redbooks publication you will gain an appreciation of the IBM CICS Transaction Gateway CICS TG product suite based on key criteria such as capabilities scalability platform CICS server support application language support and licensing model Matching the requirements to available infrastructure and hardware choices requires an appreciation of the choices available In this book you will gain an understanding of those choices and will be capable of choosing the appropriate CICS connection protocol APIs for the applications and security options You will understand the services available to the application developer when using a chosen protocol You will then learn about how to implement CICS TG solutions taking advantage of the latest capabilities such as IPIC connectivity high availability and Dynamic Server Selection Specific scenarios illustrate the usage of CICS TG for IBM z OS and CICS TG for Multiplatforms with CICS Transaction Server for z OS and IBM WebSphere Application Server including connections in CICS configuring simple end to end connectivity all platforms with verification for remote and local mode applications and adding security XA support and high availability **IBM System Storage DS8700 Architecture and Implementation** Bertrand Dufrasne,Werner Bauer,Brenda Careaga,Jukka Myyrrylainen,Antonio Rainero,Paulus Usong,IBM Redbooks,2011-02-12 This IBM Redbooks publication describes the concepts architecture and implementation of the IBM System Storage DS8700 storage subsystem This book has reference information that will help you plan for install and configure the DS8700 and also discusses the architecture and components The DS8700 is the most advanced model in the IBM System Storage DS8000 series It includes IBM POWER6 based controllers with a dual 2 way or

dual 4 way processor complex implementation Its extended connectivity with up to 128 Fibre Channel FICON ports for host connections make it suitable for multiple server environments in both open systems and IBM System z environments If desired the DS8700 can be integrated in an LDAP infrastructure The DS8700 supports thin provisioning Depending on your specific needs the DS8700 storage subsystem can be equipped with SATA drives FC drives and Solid State Drives SSDs The DS8700 can now automatically optimize the use of SSD drives through its no charge Easy Tier feature The DS8700 also supports Full Disk Encryption FDE feature Its switched Fibre Channel architecture dual processor complex implementation high availability design and the advanced Point in Time Copy and Remote Mirror and Copy functions that incorporates make the DS8700 storage subsystem suitable for mission critical business functions [Professional IBM WebSphere 5.0](#)

[Application Server](#) Tim Francis, Eric Herness, Rob High, Jr., Jim Knutson, Kim Rochat, Chris Vignola, 2004-08-04 What is this book about The WebSphere platform from IBM with its rich function set industry leading performance and scalability as well as configuration flexibility is one of the leading products of the application server generation For the experienced J2EE developer this book details how to develop deploy and manage enterprise applications for version 5.0 of IBM's WebSphere Application Server Over the course of the book a large scale e-commerce application is developed that demonstrates the use of WebSphere Application Developer Studio for the creation of J2EE applications as well as functionality of the application server including Web Services Application Profiles and Enterprise Workflows The book also addresses other enterprise level issues such as security deployment topology and server administration This book is written by IBM's WebSphere Experts and Architects Rob High is the Chief Architect for WebSphere foundation Eric Herness is the Senior Architect for WAS Enterprise Jim Knutson is the Senior Architect for WAS J2EE Chris Vignola is the Lead Architect for WAS for zOS Tim Francis the Senior Architect for WebSphere Studio Application Developer and Kim Rochat is an Architect for WAS Web Services What does this book cover In this book you will learn how to Develop J2EE applications with WebSphere Studio 5.0 Package and deploy J2EE applications to WebSphere Application Server 5.0 Develop web services for WebSphere 5.0 Optimize EJB's runtime concurrency and transactions for WebSphere Enterprise 5.0 Choreograph work flows and business processes with WebSphere Studio Integration Edition 5.0 Explore WebSphere 5.0's extended feature set for enterprise development Secure your enterprise with WebSphere 5.0 **IBM DS8900F Performance Best Practices and Monitoring** Peter

Kimmel, Sherri Brunson, Lisa Martinez, Luiz Fernando Moreira, Ewerson Palacio, Rick Pekosh, Ali Rizvi, Paul Smith, IBM Redbooks, 2021-12-17 This IBM Redbooks publication is intended for individuals who want to maximize the performance of their DS8900 storage systems and investigate the planning and monitoring tools that are available **IBM DS8900F and IBM Z Synergy DS8900F: Release 9.3 and z/OS 2.5** Peter Kimmel, Jörg Klemm, IBM Redbooks, 2022-07-04 IBM Z has a close and unique relationship to its storage Over the years improvements to the IBM zSystems processors and storage software the disk storage systems and their communication architecture consistently reinforced this synergy This IBM

Redpaper™ publication summarizes and highlights the various aspects advanced functions and technologies that are often pioneered by IBM and make IBM Z and IBM DS8000 products an ideal combination This paper is intended for users who have some familiarity with IBM Z and the IBM DS8000 series and want a condensed but comprehensive overview of the synergy items up to the IBM z16 server with IBM z OS V2.5 and the IBM DS8900 Release 9.3 firmware

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Ibm Wlm Manual Introduction

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