

AIX 5L Performance Tools Handbook

Monitor and tune system performance
and identify bottlenecks

Understand the performance of
your AIX system

Using tools to improve
the system



System Performance
Tools Handbook
AIX 5L
Performance
Tools Handbook

Aix 5l Performance Tools Handbook

**Irene Hopf,Christian Bartels,Elmar
Billen,James Nugen,Walter Orb,Olaf
Rutz,IBM Redbooks**



Aix 5l Performance Tools Handbook:

AIX 5L Performance Tools Handbook, 2003 [AIX 5L Practical Performance Tools and Tuning Guide](#) IBM Redbooks, 2005 This IBM Redbook incorporates the latest AIX 5L performance and tuning tools It is a comprehensive guide about the performance monitoring and tuning tools that are provided with AIX 5L Version 5 3 and it is the ultimate guide for system administrators and support professionals who want to efficiently use the AIX performance monitoring and tuning tools and understand how to interpret the statistics The usage of each tool is explained along with the measurements it takes and the statistics it produces This redbook contains a large number of usage and output examples for each of the tools pointing out the relevant statistics to look for when analyzing an AIX system s performance from a practical point of view It also explains the performance API available with AIX 5L and gives examples about how to create your own performance tools This redbook also contains an overview of the graphical AIX performance tools available with AIX 5L and the AIX Performance Toolbox Version 3 0 This redbook is a rework of the very popular redbook AIX 5L Performance Tools Handbook SG24 6039 published in 2003 **AIX 5L Differences Guide Version 5.3 Edition** Scott Vetter, Adrian Demeter, Shiv Dutta, Armin Röhl, SeongLul Son, IBM Redbooks, 2005-08-29 This IBM Redbooks publication focuses on the differences introduced in AIX 5L Version 5 3 when compared to AIX 5L Version 5 2 It is intended to help system administrators developers and users understand these enhancements and evaluate potential benefits in their own environments AIX 5L Version 5 3 introduces many new features including NFS Version 4 and Advanced Accounting and exploits the advanced capabilities of POWER5 equipped servers such as Virtual SCSI Virtual Ethernet SMT Micro Partitioning and others There are many other enhancements available with AIX 5L Version 5 3 and you can explore them in this book For customers who are not familiar with the enhancements of AIX 5L through Version 5 2 a companion publication AIX 5L Differences Guide Version 5 2 Edition SG24 5765 is available **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 System Storage DS8000 Performance Monitoring and Tuning](#) Axel Westphal, Bert Dufrasne, Wilhelm Gardt, Jana Jamsek, Peter Kimmel, Flavio Morais, Paulus Usong, Alexander Warmuth, Kenta Yuge, IBM Redbooks, 2016-04-07 This IBM Redbooks publication provides guidance about how to configure monitor and manage your IBM DS8880 storage systems to achieve

optimum performance and it also covers the IBM DS8870 storage system. It describes the DS8880 performance features and characteristics including hardware related performance features synergy items for certain operating systems and other functions such as IBM Easy Tier and the DS8000 I/O Priority Manager. The book also describes specific performance considerations that apply to particular host environments including database applications. This book also outlines the various tools that are available for monitoring and measuring I/O performance for different server environments and it describes how to monitor the performance of the entire DS8000 storage system. This book is intended for individuals who want to maximize the performance of their DS8880 and DS8870 storage systems and investigate the planning and monitoring tools that are available. The IBM DS8880 storage system features as described in this book are available for the DS8880 model family with R8.0 release bundles. Licensed Machine Code LMC level 7.8.0. *DS8800 Performance Monitoring and Tuning* Gero Schmidt, Bertrand Dufrasne, Jana Jamsek, Peter Kimmel, Hiroaki Matsuno, Flavio Morais, Lindsay Oxenham, Antonio Rainero, Denis Senin, IBM Redbooks, 2012-09-14. This IBM Redbooks publication provides guidance about how to configure, monitor, and manage your IBM System Storage DS8800 and DS8700 storage systems to achieve optimum performance. It describes the DS8800 and DS8700 performance features and characteristics including IBM System Storage Easy Tier and DS8000 I/O Priority Manager. It also describes how they can be used with the various server platforms that attach to the storage system. Then in separate chapters we detail specific performance recommendations and discussions that apply for each server environment as well as for database and DS8000 Copy Services environments. We also outline the various tools available for monitoring and measuring I/O performance for different server environments as well as describe how to monitor the performance of the entire DS8000 storage system. This book is intended for individuals who want to maximize the performance of their DS8800 and DS8700 storage systems and investigate the planning and monitoring tools that are available. The IBM System Storage DS8800 and DS8700 storage system features as described in this book are available for the DS8700 with Licensed Machine Code LMC level 6.6.2x xxx or higher and the DS8800 with Licensed Machine Code LMC level 7.6.2x xxx or higher. For information about optimizing performance with the previous DS8000 models DS8100 and DS8300 see the following IBM Redbooks publication: *DS8000 Performance Monitoring and Tuning* SG24-7146. **AIX 5L Practical Performance Tools and Tuning Guide** Kumiko Hayashi, 2005*. *POWER7 and POWER7+ Optimization and Tuning Guide* Brian Hall, Mala Anand, Bill Buros, Miso Cilindzic, Hong Hua, Judy Liu, John MacMillan, Sudhir Maddali, K Madhusudanan, Bruce Mealey, Steve Munroe, Francis P. O'Connell, Sergio Reyes, Raul Silvera, Randy Swanberg, Brian Twichell, Brian F. Veale, Julian Wang, Yaakov Yaari, IBM Redbooks, 2013-03-04. This IBM Redbooks publication provides advice and technical information about optimizing and tuning application code to run on systems that are based on the IBM POWER7 and POWER7 TM processors. This advice is drawn from application optimization efforts across many different types of code that runs under the IBM AIX and Linux operating systems focusing on the more pervasive performance opportunities.

that are identified and how to capitalize on them The technical information was developed by a set of domain experts at IBM The focus of this book is to gather the right technical information and lay out simple guidance for optimizing code performance on the IBM POWER7 and POWER7 systems that run the AIX or Linux operating systems This book contains a large amount of straightforward performance optimization that can be performed with minimal effort and without previous experience or in depth knowledge This optimization work can Improve the performance of the application that is being optimized for the POWER7 system Carry over improvements to systems that are based on related processor chips Improve performance on other platforms The audience of this book is those personnel who are responsible for performing migration and implementation activities on IBM POWER7 based servers which includes system administrators system architects network administrators information architects and database administrators DBAs Exploiting IBM PowerHA SystemMirror V6.1 for AIX Enterprise Edition Dino Quintero,Benny Abrar,Adriano Almeida,Michael Herrera,SoHee Kim,Bjorn Roden,Andrei Socoliuc,Tom Swart,IBM Redbooks,2014-02-18 This IBM Redbooks publication positions the IBM PowerHA SystemMirror V6 1 for AIX Enterprise Edition as the cluster management solution for high availability This solution enables near continuous application service and minimizes the impact of planned and unplanned outages The primary goal of this high availability solution is to recover operations at a remote location after a system or data center failure establish or strengthen a business recovery plan and provide separate recovery location The IBM PowerHA SystemMirror Enterprise Edition is targeted at multisite high availability disaster recovery The objective of this book is to help new and existing PowerHA customers to understand how to plan to accomplish a successful installation and configuration of the PowerHA SystemMirror for AIX Enterprise Edition This book emphasizes the IBM Power Systems™ strategy to deliver more advanced functional capabilities for business resiliency and to enhance product usability and robustness through deep integration with AIX affiliated software stack and storage technologies PowerHA SystemMirror is designed developed integrated tested and supported by IBM from top to bottom **IBM AIX Version 6.1 Differences Guide** Scott Vetter,Roman Aleksic,Ismael "Numi" Castillo,Rosa Fernandez,Armin Röhl,Nobuhiko Watanabe,IBM Redbooks,2008-03-10 This IBM Redbooks publication focuses on the differences introduced in IBM AIX Version 6 1 when compared to AIX 5L Version 5 3 It is intended to help system administrators developers and users understand these enhancements and evaluate potential benefits in their own environments AIX Version 6 1 introduces many new features including workload partitions advanced security continuous availability and managing and monitoring enhancements There are many other new features available with AIX Version 6 1 and you can explore them all in this publication For clients who are not familiar with the enhancements of AIX through Version 5 3 a companion publication AIX 5L Differences Guide Version 5 3 Edition SG24 7463 is available along with an addendum AIX 5L Differences Guide Version 5 3 Addendum SG24 7414 which includes between release enhancements that are available through applying service updates **Best Practices for DB2 on AIX 6.1 for POWER Systems** Rakesh

Dash, Bernard Goelen, Vasfi Gucer, Rajesh K Jeyapaul, Sunil Kamath, Naveen Kumar Bharatha, Michael Kwok, Anupama Padmanabhan, Punit Shah, Basker Shanmugam, Sweta Singh, Amar Thakkar, Adriana Zubiri, IBM Redbooks, 2015-08-27 This IBM Redbooks publication presents a best practices guide for DB2 and InfoSphere™ Warehouse performance on a AIX 6L with Power Systems™ virtualization environment. It covers Power hardware features such as PowerVM™ multi page support, Reliability, Availability and Serviceability (RAS) and how to best exploit them with DB2 LUW workloads for both transactional and data warehousing systems. The popularity and reach of DB2 and InfoSphere Warehouse has grown in recent years. Enterprises are relying more on these products for their mission critical transactional and data warehousing workloads. It is critical that these products be supported by an adequately planned infrastructure. This publication offers a reference architecture to build a DB2 solution for transactional and data warehousing workloads using the rich features offered by Power systems. IBM Power Systems have been leading players in the server industry for decades. Power Systems provide great performance while delivering reliability and flexibility to the infrastructure. This book presents a reference architecture to build a DB2 solution for transactional and data warehousing workloads using the rich features offered by Power systems. It aims to demonstrate the benefits DB2 and InfoSphere Warehouse can derive from a Power Systems infrastructure and how Power Systems support these products. The book is intended as a guide for a Power Systems specialist to understand the DB2 and InfoSphere Warehouse environment and for a DB2 and InfoSphere Warehouse specialist to understand the facilities available for Power Systems supporting these products. *Power Systems Enterprise Servers with PowerVM Virtualization and RAS* Dino Quintero, JinHoon Baek, Guillermo Diez, Hassan Elsetohy, Debra Francis, Bing He, Rajesh Jeyapaul, Anil Kalavakolanu, Tejaswini Kaujalgi, David Kgabo, Ricardo Puig, Vani Ramagiri, IBM Redbooks, 2013-03-06 This IBM Redbooks publication illustrates implementation, testing and helpful scenarios with IBM Power Systems 780 and 795 using the comprehensive set of the Power virtualization features. We focus on the Power Systems functional improvements in particular, highlighting the reliability, availability and serviceability (RAS) features of the enterprise servers. This document highlights IBM Power Systems Enterprise Server features such as system scalability, virtualization features and logical partitioning among others. This book provides a documented deployment model for Power 780 and Power 795 within a virtualized environment which allows clients to plan a foundation for exploiting and using the latest features of the IBM Power Systems Enterprise Servers. The target audience for this book includes technical professionals, IT consultants, technical support staff, IT Architects and IT Specialists responsible for providing IBM Power Systems solutions and support. *IBM eServer Certification Study Guide: eServer p5 and pSeries Enterprise Technical Support AIX 5L V5.3* Scott Vetter, Thierry Huche, David Kgabo, Hansjoerg Schneider, IBM Redbooks, 2005-12-15 This IBM Redbooks publication is designed as a study guide for professionals wanting to prepare for the certification exam to achieve IBM Certified Systems Expert eServer p5 and pSeries Enterprise Technical Support AIX 5L V5.3. This technical support certification validates a broad scope of

configuration installation and planning skills In addition it covers administrative and diagnostic activities needed to support logical partitions and virtual resources This publication helps IBM eServer p5 and pSeries 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 publication does not replace the 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 close association with the certification content this publication might reflect older software and firmware levels of the IBM eServer p5 systems and available features If you are planning to take the eServer p5 and pSeries Enterprise Technical Support AIX 5L V5 3 certification exam this book is for you *Exploring IBM EServer PSeries* Jim Hoskins,Robert Bluethman,2003-09 The eServer pSeries is IBM s strategic family of UNIX computers This updated overview and reference discusses the latest pSeries models options disk storage printers tape drives UNIX operating system enhancements e business software displays network stations and much more Also addressed are business issues such as leasing versus purchasing maintenance strategies cost justification and office ergonomics Hypothetical case studies of small medium and large businesses illustrate how to solve real business problems with pSeries solutions This replaces 1885068816 *Performance Optimization and Tuning Techniques for IBM Power Systems Processors Including IBM POWER8* Brian Hall,Peter Bergner,Alon Shalev Housfater,Madhusudanan Kandasamy,Tulio Magno,Alex Mericas,Steve Munroe,Mauricio Oliveira,Bill Schmidt,Will Schmidt,Bernard King Smith,Julian Wang,Suresh Warriar,David Wendt,IBM Redbooks,2017-03-31 This IBM Redbooks publication focuses on gathering the correct technical information and laying out simple guidance for optimizing code performance on IBM POWER8 processor based systems that run the IBM AIX IBM i or Linux operating systems There is straightforward performance optimization that can be performed with a minimum of effort and without extensive previous experience or in depth knowledge The POWER8 processor contains many new and important performance features such as support for eight hardware threads in each core and support for transactional memory The POWER8 processor is a strict superset of the IBM POWER7 TM processor and so all of the performance features of the POWER7 processor such as multiple page sizes also appear in the POWER8 processor Much of the technical information and guidance for optimizing performance on POWER8 processors that is presented in this guide also applies to POWER7 and earlier processors except where the guide explicitly indicates that a feature is new in the POWER8 processor This guide strives to focus on optimizations that tend to be positive across a broad set of IBM POWER processor chips and systems Specific guidance is given for the POWER8 processor however the general guidance is applicable to the IBM POWER7 IBM POWER7 IBM POWER6 IBM POWER5 and even to earlier processors This guide is directed at personnel who are responsible for performing migration and implementation activities on POWER8 processor based systems This includes system administrators system

architects network administrators information architects and database administrators DBAs IBM PowerVM Virtualization Managing and Monitoring Scott Vetter,Sergio Guilherme Bueno,Martin Capka,Ingo Dimmer,Tatum Farmer,Rafael Folco,Cesar Diniz Maciel,KyoungHun Min,Stephen Tremain,Steve Wallace,IBM Redbooks,2014-06-30 IBM PowerVM virtualization technology is a combination of hardware and software that supports and manages the virtual environments on POWER5 POWER5 IBM POWER6 and IBM POWER7 based systems PowerVM is available on IBM Power Systems™ and IBM BladeCenter servers as optional Editions and is supported by the IBM AIX IBM i and Linux operating systems You can use this set of comprehensive systems technologies and services to aggregate and manage resources by using a consolidated logical view Deploying PowerVM virtualization and IBM Power Systems offers you the following benefits Lower energy costs through server consolidation Reduced cost of your existing infrastructure Better management of the growth complexity and risk of your infrastructure This IBM Redbooks publication is an extension of IBM PowerVM Virtualization Introduction and Configuration SG24 7940 It provides an organized view of best practices for managing and monitoring your PowerVM environment concerning virtualized resources managed by the Virtual I/O Server *Performance Evaluation and Benchmarking* Lizy Kurian John,Lieven Eeckhout,2018-10-03 Computer and microprocessor architectures are advancing at an astounding pace However increasing demands on performance coupled with a wide variety of specialized operating environments act to slow this pace by complicating the performance evaluation process Carefully balancing efficiency and accuracy is key to avoid slowdowns and such a balance can be achieved with an in depth understanding of the available evaluation methodologies Performance Evaluation and Benchmarking outlines a variety of evaluation methods and benchmark suites considering their strengths weaknesses and when each is appropriate to use Following a general overview of important performance analysis techniques the book surveys contemporary benchmark suites for specific areas such as Java embedded systems CPUs and Web servers Subsequent chapters explain how to choose appropriate averages for reporting metrics and provide a detailed treatment of statistical methods including a summary of statistics how to apply statistical sampling for simulation how to apply SimPoint and a comprehensive overview of statistical simulation The discussion then turns to benchmark subsetting methodologies and the fundamentals of analytical modeling including queuing models and Petri nets Three chapters devoted to hardware performance counters conclude the book Supplying abundant illustrations examples and case studies Performance Evaluation and Benchmarking offers a firm foundation in evaluation methods along with up to date techniques that are necessary to develop next generation architectures *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

Securing NFS in AIX An Introduction to NFS v4 in AIX 5L Version 5.3 Chris Almond,Lutz Deneffleh,Sridhar Murthy,Aniket Patel,John Trindle,IBM Redbooks,2004-11-09 NFS Version 4 NFS V4 is the latest defined client to server protocol for NFS A significant upgrade from NFS V3 it was defined under the IETF framework by many contributors NFS V4 introduces major changes to the way NFS has been implemented and used before now including stronger security wide area network sharing and broader platform adaptability This IBM Redbooks publication is intended to provide a broad understanding of NFS V4 and specific AIX NFS V4 implementation details It discusses considerations for deployment of NFS V4 with a focus on exploiting the stronger security features of the new protocol In the initial implementation of NFS V4 in AIX 5 3 the most important functional differences are related to security Chapter 3 and parts of the planning and implementation chapters in Part 2 cover this topic in detail [SAP Applications on IBM PowerVM](#) Irene Hopf,Christian Bartels,Elmar Billen,James Nugen,Walter Orb,Olaf Rutz,IBM Redbooks,2011-11-01 IBM invented the virtualization technology starting in the 1960s on the mainframe and the functionalities evolved and were ported to other platforms and improved the reliability availability and serviceability RAS features With virtualization you achieve better asset utilization reduced operating costs and faster responsiveness to changing business demands Every technology vendor in the SAP ecosystem understands virtualization as slightly different capabilities on different levels storage and server hardware processor memory I O resources or the application and so on It is important to understand exactly what functionality is offered and how it supports the client s business requirements In this IBM Redbooks publication we focus on server virtualization technologies in the IBM Power Systems™ hardware AIX IBM i and Linux space and what they mean specifically for SAP applications running on this platform SAP clients can leverage the technology that the IBM Power Systems platform offers In this book we describe the technologies and functions what they mean and how they apply to the SAP system landscape

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