

AIX Performance Tuning

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Jaqui Lynch
Senior Systems Engineer
Mainline Information Systems



Agenda

- AIX v5.2 versus AIX v5.3
- 32 bit versus 64 bit
- JFS versus JFS2
- DIO and CIO
- AIX Performance Tips



Aix Performance Tuning

**Dino Quintero, Sebastien
Chabrolles, Chi Hui Chen, Murali
Dhandapani, Talor
Holloway, Chandrakant Jadhav, Sae Kee
Kim, Sijo Kurian, Bharath Raj, Ronan
Resende, Bjorn Roden, Niranjana
Srinivasan, Richard Wale, William
Zanatta, Zhi Zhang, IBM Redbooks**

Aix Performance Tuning:

Accelerating AIX Rudy Chukran, 1998 This book is designed to teach programmers and system administrators how to maximize and improve the factors that affect the performance of their AIX compatible systems You ll find comprehensive coverage of monitoring diagnostic and development tools remedies for performance slowdowns techniques for relieving LAN bottlenecks and proven methodologies for isolating analyzing and solving performance problems Written by IBM s expert on AIX tuning *Accelerating AIX* also includes a summary chapter organized by problem and solution format addressing What do I do when along with a complete chapter on performance tools *AIX Performance Tuning Guide* International Business Machines Corporation, 1996 *Database Performance Tuning on AIX* Budi Darmawan, 2003 *AIX Performance Tuning* Frank Waters, 1996 Covering Releases 3 2 5 and 4 1 this book provides information on the concepts tools and techniques for assessing and tuning the performance of AIX on IBM s RISC System 6000 Focuses on efficient system and application design and implementation as well as post implementation tuning of CPU use memory use disk I O and communications I O For programmers system managers and end users concerned with performance tuning of AIX systems *Driving the Power of AIX* Ken Milberg, 2009 Maximize your efforts toward effective performance tuning on AIX on IBM s Power Systems IBM i AS 400 iSeries System i AIX and Linux With detailed information on optimizing your CPU memory disk and network I O subsystems along with data on both AIX 5 3 and AIX 6 1 the author gives detailed instructions on how to tune your system effectively delivering the performance boost you desire In addition to these topics chapters on the new AIX 6 1 Linux and Oracle running on IBM Power Systems are included Packed with real world know how from author Ken Milberg a 20 year systems administration veteran this book is intended for systems professionals who need to understand monitor and control the factors that affect AIX performance on their servers It covers systems monitoring and performance tuning on all subsystems as well as time tested tuning and analysis methodology The monitoring sections discuss tools that will allow you to immediately gain a quick and dirty view of the health of your system Resource description page **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

IBM Power Systems Performance Guide: Implementing and Optimizing Dino Quintero, Sebastien Chabrolles, Chi Hui Chen, Murali Dhandapani, Talor Holloway, Chandrakant Jadhav, Sae Kee Kim, Sijo Kurian, Bharath Raj, Ronan Resende, Bjorn Roden, Niranjana Srinivasan, Richard Wale, William Zanatta, Zhi Zhang, IBM Redbooks, 2013-05-01 This IBM Redbooks publication addresses performance tuning topics to help leverage the virtualization strengths of the POWER platform to solve clients system resource utilization challenges and maximize system throughput and capacity We examine the performance monitoring tools utilities documentation and other resources available to help technical teams provide optimized business solutions and support for applications running on IBM POWER systems virtualized environments The book offers application performance examples deployed on IBM Power Systems™ utilizing performance monitoring tools to leverage the comprehensive set of POWER virtualization features Logical Partitions LPARs micro partitioning active memory sharing workload partitions and more We provide a well defined and documented performance tuning model in a POWER system virtualized environment to help you plan a foundation for scaling capacity and optimization This book targets technical professionals technical consultants technical support staff IT Architects and IT Specialists responsible for providing solutions and support on IBM POWER systems including performance tuning *IBM Business Process Manager V7.5 Performance Tuning and Best Practices* IBM Business Process Management Performance Team, IBM Redbooks, 2012-04-11 This IBM Redpaper™ publication provides performance tuning tips and best practices for IBM Business Process Manager BPM V7.5 all editions and IBM Business Monitor V7.5 These products represent an integrated development and runtime environment based on a key set of service oriented architecture SOA and business process management technologies Such technologies include Service Component Architecture SCA Service Data Object SDO Business Process Execution Language for Web services BPEL and Business Processing Modeling Notation BPMN Both BPM and Business Monitor build on the core capabilities of the IBM WebSphere Application Server infrastructure As a result BPM solutions benefit from tuning configuration and best practices information for WebSphere Application Server and the corresponding platform Java Virtual Machines JVMs This paper targets a wide variety of groups both within IBM development services technical sales and others and customers For customers who are either considering or are in the early stages of implementing a solution incorporating BPM and Business Monitor this document proves a useful reference The paper is useful both in terms of best practices during application development and deployment and as a reference for setup tuning and configuration information This

paper introduces many of the issues influencing the performance of each product and can serve as a guide for making rational first choices in terms of configuration and performance settings Similarly customers who have already implemented a solution using these products might use the information presented here to gain insight into how their overall integrated solution performance might be improved

IBM Business Process Manager V8.5 Performance Tuning and Best Practices Mike Collins,Zi Hui Duan,Andreas Fried,Ben Hoflich,Chris Richardson,Torsten Wilms,IBM Redbooks,2015-02-24 This IBM Redbooks publication provides performance tuning tips and best practices for IBM Business Process Manager IBM BPM V8 5 5 all editions and IBM Business Monitor V8 5 5 These products represent an integrated development and runtime environment based on a key set of service oriented architecture SOA and business process management BPM technologies Such technologies include Service Component Architecture SCA Service Data Object SDO Business Process Execution Language BPEL for web services and Business Processing Modeling Notation BPMN Both IBM Business Process Manager and Business Monitor build on the core capabilities of the IBM WebSphere Application Server infrastructure As a result Business Process Manager solutions benefit from tuning configuration and best practices information for WebSphere Application Server and the corresponding platform Java virtual machines JVMs This book targets a wide variety of groups both within IBM development services technical sales and others and customers For customers who are either considering or are in the early stages of implementing a solution incorporating Business Process Manager and Business Monitor this document proves a useful reference The book is useful both in terms of best practices during application development and deployment and as a reference for setup tuning and configuration information This book talks about many issues that can influence performance of each product and can serve as a guide for making rational first choices in terms of configuration and performance settings Similarly customers who already implemented a solution with these products can use the information presented here to gain insight into how their overall integrated solution performance can be improved

AIX Versions 3.2 and 4.1 Performance Tuning Guide,1994 **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 [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 [AIX 5L Practical Performance Tools and Tuning Guide](#) IBM Redbooks,Kumiko Hayashi,2005 **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 **IBM FlashSystem 9200 and 9100 Best Practices and Performance Guidelines** Jon Tate,Tiago Moreira Candelaria Bastos,Jon Herd,Sang-hyun Kim,Sergey Kubin,Dirk Peitzmann,Antonio Rainero,IBM Redbooks,2021-07-19 This IBM Redbooks publication captures several of the preferred practices and describes the performance gains that can be achieved by implementing the IBM FlashSystem 9100 These practices are based on field experience This book highlights configuration guidelines and preferred practices for the storage area network SAN topology clustered system back end storage storage pools and managed disks volumes remote copy services and hosts It explains how you can optimize disk performance with the IBM System Storage Easy Tier function It also provides preferred practices for monitoring maintaining and troubleshooting This book is intended for experienced storage SAN IBM FlashSystem SAN Volume Controller and Storwize administrators and technicians Understanding his book requires advanced knowledge of these environments Important IBM FlashSystem 9200 On 11th February 2020 IBM announced the arrival of the IBM FlashSystem 9200 to the family This book was written specifically for IBM FlashSystem 9100 however most of the general principles will apply to the IBM FlashSystem 9200 If you are in any doubt as to their applicability to the FlashSystem 9200 then you should work with your local IBM representative This book will be updated to include FlashSystem 9200 in due course *AUUGN* ,1996-06 *Workload Optimized Systems: Tuning POWER7 for Analytics* Dino Quintero,Thomas Ancel,Graeme Cassie,Rodrigo Ceron Ferreira de Castro,Amr Darwish,Guilherme Felix,Jian Jun He,Bharathraj Keshavamurthy,Sreenivas Makineedi,Girish Nikalje,Sudipto Pal,Zubair Salie,Ashu Tiwary,IBM Redbooks,2013-04-14 This IBM Redbooks publication addresses topics to help clients to take advantage of the virtualization strengths of the POWER platform to solve system resource utilization challenges and maximize system throughput and capacity This publication examines the tools utilities documentation and other resources available to help technical teams provide business solutions and support for Cognos Business Intelligence BI and Statistical Package for the Social Sciences SPSS on Power Systems™ virtualized environments This book addresses topics to help address complex high availability requirements help maximize the availability of systems and provide expert level documentation to the worldwide support teams This book strengthens the position of the Cognos and SPSS solutions with a well defined and documented deployment model within a POWER system virtualized environment This model provides clients with a planned foundation for security scaling capacity resilience and optimization This book is targeted toward technical professionals BI consultants technical support staff IT Architects and IT Specialists who are responsible for providing Smart

Analytics solutions and support for Cognos and SPSS on Power Systems **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
Advanced Tuning for JD Edwards EnterpriseOne Implementations Michael Jacot, Allen Jacot, Frank Jordan, Gurbinder Bali, Patrick Scott, Kyle Kinder, 2013-06-05 Best Practices for JD Edwards EnterpriseOne Tuning and Optimization Achieve peak performance from your ERP platform while minimizing downtime and lowering TCO Advanced Tuning for JD Edwards EnterpriseOne Implementations shows how to plan and adopt a structured top to bottom maintenance methodology Uncover and eliminate bottlenecks maximize efficiency at every component layer troubleshoot databases and web servers automate system testing and handle mobile issues This Oracle Press guide offers complete coverage of the latest cloud clustering load balancing and virtualization solutions Understand the components of a structured tuning plan Establish benchmarks and implement key industry practices Perform changes and accurately measure system wide impact Diagnose and repair HTTP web application and Java issues Troubleshoot Oracle Database connections and transactions Streamline Oracle s JD Edwards EnterpriseOne kernel and JDEnET processes Configure test and manage virtual machines and servers Work with Oracle Exadata Database Machine and Oracle Exalogic Elastic Cloud **Professional Oracle WebLogic Server** Robert Patrick, Gregory Nyberg, Philip Aston, 2010-12-20 Authoritative guide to Oracle WebLogic Server from Oracle insiders If you re an experienced Java developer who wants to expand your skills Professional Oracle WebLogic Server is the perfect guide for you This book is written by a top notch author team that that includes one of the lead architects from Oracle s Fusion Middleware Development Architects team Follow their best practices workarounds and sound techniques and confidently develop even the most mission critical applications with WebLogic Server This book fully covers WebLogic Server 11g including the new features of both JEE 5 and WebLogic Server as well as JEE 5 annotations Spring JPA JAX WS JMS Store And Forward SAML support and the WLST administrative scripting tool This book is the authoritative guide to Choosing a Web application architecture Best practices for development and production environments Designing an Java EE application

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