

Performance Analysis And Tuning For General Purpose Graphics Processing Units Gpgpu Richard Vuduc

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[ABAP Performance Tuning](#) Aug 23 2021 This book is your guide for analyzing and optimizing ABAP source code. You ll learn about the analysis tools and performance-relevant technologies, and discover how you can analyze existing source code and enhance your programming style. This is the resource you need to ensure that your ABAP programs are fully optimized. 1 Analysis Tools After reading this book, you ll know when and how to use analysis tools properly including Code Inspector, performance trace, ABAP trace, or single records statistics. 2 Programming Technologies Get detailed information on parallel processing, internal tables, SQL data processing, and much more, and learn how these technologies affect performance. 3 Buffering Explore the different buffers that are available on the SAP NetWeaver Application Server ABAP, and learn the most important buffer options to avoid unnecessary database accesses. 4 Database Tuning You ll obtain a description of the database architecture and the technical background of database accesses, and master the tuning options for database accesses. 5 New Developments Learn from a comprehensive overview of the new developments

in ABAP Release 7.0, EhP2, such as Transaction SAT, the innovations of the performance trace, and changes of internal tables.

Tuning PSO Parameters Through Sensivity Analysis Mar 18 2021

PID Control System Design and Automatic Tuning using MATLAB/Simulink Jul 10 2020 Covers PID control systems from the very basics to the advanced topics This book covers the design, implementation and automatic tuning of PID control systems with operational constraints. It provides students, researchers, and industrial practitioners with everything they need to know about PID control systems—from classical tuning rules and model-based design to constraints, automatic tuning, cascade control, and gain scheduled control. PID Control System Design and Automatic Tuning using MATLAB/Simulink introduces PID control system structures, sensitivity analysis, PID control design, implementation with constraints, disturbance observer-based PID control, gain scheduled PID control systems, cascade PID control systems, PID control design for complex systems, automatic tuning and applications of PID control to unmanned aerial vehicles. It also presents resonant control systems relevant to many engineering applications. The implementation of PID control and resonant control highlights how to deal with operational constraints. Provides unique coverage of PID Control of unmanned aerial vehicles (UAVs), including mathematical models of multi-rotor UAVs, control strategies of UAVs, and automatic tuning of PID controllers for UAVs Provides detailed descriptions of automatic tuning of PID control systems, including relay feedback control systems, frequency response estimation, Monte-Carlo simulation studies, PID controller design using frequency domain information, and MATLAB/Simulink simulation and implementation programs for automatic tuning Includes 15 MATLAB/Simulink tutorials, in a step-by-step manner, to illustrate the design, simulation, implementation and automatic tuning of PID control systems Assists lecturers, teaching assistants, students, and other readers to learn PID control with constraints and apply the control theory to various areas. Accompanying website includes lecture slides and MATLAB/ Simulink programs PID Control System Design and Automatic Tuning using MATLAB/Simulink is intended for undergraduate electrical, chemical, mechanical, and aerospace engineering students, and will greatly benefit postgraduate students, researchers, and industrial personnel who work with control systems and their applications.

Performance Analysis and Tuning for General Purpose Graphics Processing Units (GPGPU) Nov 06 2022 General-purpose graphics processing units (GPGPU) have emerged as an important class of shared memory parallel processing architectures, with widespread deployment in every computer class from high-end supercomputers to embedded mobile platforms. Relative to more traditional multicore systems of today, GPGPUs have distinctly higher degrees of hardware multithreading (hundreds of hardware thread contexts vs. tens), a return to wide vector units (several tens vs. 1-10), memory architectures that deliver higher peak memory bandwidth (hundreds of gigabytes per second vs. tens), and smaller caches/scratchpad memories (less than 1 megabyte vs. 1-10 megabytes). In this book, we provide a high-level overview of current GPGPU architectures and programming models. We review the principles that are used in previous shared memory parallel platforms, focusing on recent results in both the theory and practice of parallel algorithms, and suggest a connection to GPGPU platforms. We aim to provide hints to architects about understanding algorithm aspect to GPGPU. We also provide detailed performance analysis and guide optimizations from high-level algorithms to low-level instruction level optimizations. As a case study, we use n-body particle simulations known as the fast multipole method (FMM) as an example. We also briefly survey the state-of-the-art in GPU performance analysis tools and techniques. Table of Contents: GPU Design, Programming, and Trends / Performance Principles / From Principles to Practice: Analysis and Tuning / Using Detailed Performance Analysis to Guide Optimization

Suse Linux Enterprise Server 12 - System Analysis and Tuning Guide Sep 04 2022 An administrator's guide for problem detection, resolution and optimization. Find how to inspect and optimize your system by means of monitoring tools and how to efficiently manage resources. Also contains an overview of common problems and solutions and of additional help and documentation resources.

Java Performance Tuning Jul 22 2021 Helps readers eliminate performance problems, covering topics including bottlenecks, profiling tools, strings, algorithms, distributed systems, and servlets.

Performance Tuning of Scientific Applications Nov 25 2021 With contributions from some of the most notable experts in the field, Performance Tuning of Scientific Applications presents current research in performance analysis. The book focuses on the following areas. Performance monitoring: Describes the state of the art in hardware and software tools that are commonly used for monitoring and measuring performance and managing large quantities of data Performance analysis: Discusses modern approaches to computer performance benchmarking and presents results that offer valuable insight into these studies Performance modeling: Explains how researchers deduce accurate performance models from raw performance data or from other high-level characteristics of a scientific computation Automatic performance tuning: Explores ongoing

research into automatic and semi-automatic techniques for optimizing computer programs to achieve superior performance on any computer platform Application tuning: Provides examples that show how the appropriate analysis of performance and some deft changes have resulted in extremely high performance Performance analysis has grown into a full-fledged, sophisticated field of empirical science. Describing useful research in modern performance science and engineering, this book helps real-world users of parallel computer systems to better understand both the performance vagaries arising in scientific applications and the practical means for improving performance. Read about the book on HPCwire and insideHPC

Linux Debugging and Performance Tuning Apr 18 2021 A guide to Linux software debugging and performance optimization at both the kernel and application levels. Using Linux code examples, this book introduces open source tools and best-practice techniques for delivering bug-free, well-tuned code. It covers issues ranging from memory management and I/O to system processes and kernel bug messages.

Oracle Wait Event Tuning Apr 30 2022 This handbook provides database administrators with clear and concise processes with which to attack tuning problems using Oracle Wait Interface. A guide is provided to demonstrate the mechanics of the Wait Interface and how to use it not only to tune database performance at the database level but also to give the statistics needed to understand problems that lie outside of the database in the SAN or the network. Techniques that apply to tuning any Oracle database from version 7 through 9i and beyond are included.

SAP Performance Optimization Guide Jun 01 2022

Tuning Microsoft Server Clusters Oct 25 2021 DELIVER HIGH PERFORMANCE AND AVAILABILITY BY OPTIMIZING RESOURCES Beyond implementation and configuration, there's tuning. If only it were a matter of watching the needle 'til it hits the right spot on the dial! But it isn't and that's why you'll be glad expert Bob Buchanan shares his tuning skills in this 1-2-3 tutorial. Reducing a daunting task to a fine -- but doable -- art, Buchanan shows you his proven methodology for guaranteeing optimal performance. Tuning Microsoft Server Clusters exposes the nuts and bolts of cluster and end-to-end system optimization. A CLUSTER IS ONLY AS GOOD AS ITS CONFIGURATION Tuning Microsoft Server Clusters gives you: * An approach that puts optimization in real-life business and technical context * A proven methodology that shows you how to get more performance and availability without buying more software or hardware * Step-by-step instructions that go beyond monitoring and management into proactive analysis for cluster and end-to-end system optimization * Working techniques that identify bottlenecks; unmask degraded configurations; verify reliability and availability; calculate capacity needs; and help you pinpoint needed improvements * Illustrated examples of solutions that are integrated into your system's operation * The best way to optimize highly redundant systems * Tried-and-tested techniques (over 30,000 hours of experience) for locking in benefits in performance, reliability, and maintainability DON'T JUST BUILD IT AND MANAGE IT -- MAKE IT EARN ITS KEEP!

Hyperparameter Tuning for Machine and Deep Learning with R Nov 13 2020 This open access book provides a wealth of hands-on examples that illustrate how hyperparameter tuning can be applied in practice and gives deep insights into the working mechanisms of machine learning (ML) and deep learning (DL) methods. The aim of the book is to equip readers with the ability to achieve better results with significantly less time, costs, effort and resources using the methods described here. The case studies presented in this book can be run on a regular desktop or notebook computer. No high-performance computing facilities are required. The idea for the book originated in a study conducted by Bartz & Bartz GmbH for the Federal Statistical Office of Germany (Destatis). Building on that study, the book is addressed to practitioners in industry as well as researchers, teachers and students in academia. The content focuses on the hyperparameter tuning of ML and DL algorithms, and is divided into two main parts: theory (Part I) and application (Part II). Essential topics covered include: a survey of important model parameters; four parameter tuning studies and one extensive global parameter tuning study; statistical analysis of the performance of ML and DL methods based on severity; and a new, consensus-ranking-based way to aggregate and analyze results from multiple algorithms. The book presents analyses of more than 30 hyperparameters from six relevant ML and DL methods, and provides source code so that users can reproduce the results. Accordingly, it serves as a handbook and textbook alike.

Oracle9i High-Performance Tuning with STATSPACK Sep 23 2021 Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Get complete coverage of STATSPACK—Oracle's powerful tuning tool—inside this official guide Including ready-to-use STATSPACK scripts you'll be able to collect and analyze system data and soon have your Oracle database running at peak performance. *PID Tuning* Jun 20 2021 The PID controller is the most common option in the realm of control applications and is dominant in the process control industry. Among the related analytical methods, Internal Model Control (IMC) has gained remarkable industrial acceptance due to its robust nature and good set-point responses. However, the traditional

application of IMC results in poor load disturbance rejection for lag-dominant and integrating plants. This book presents an IMC-like design method which avoids this common pitfall and is devised to work well for plants of modest complexity, for which analytical PID tuning is plausible. For simplicity, the design only focuses on the closed-loop sensitivity function, including formulations for the H^1 and H_2 norms. Aimed at graduate students and researchers in control engineering, this book: Considers both the robustness/performance and the servo/regulation trade-offs Presents a systematic, optimization-based approach, ultimately leading to well-motivated, model-based, and analytically derived tuning rules Shows how to tune PID controllers in a unified way, encompassing stable, integrating, and unstable processes Finds in the Weighted Sensitivity Problem the sweet spot of robust, optimal, and PID control Provides a common analytical framework that generalizes existing tuning proposals

Control of Dead-time Processes Feb 14 2021 This text introduces the fundamental techniques for controlling dead-time processes from simple monovariable to complex multivariable cases. Dead-time-process-control problems are studied using classical proportional-integral-differential (PID) control for the simpler examples and dead-time-compensator (DTC) and model predictive control (MPC) methods for progressively more complex ones. Downloadable MATLAB® code makes the examples and ideas more convenient and simpler.

Performance Analysis and Tuning on Modern CPUs Jan 08 2023 Performance tuning is becoming more important than it has been for the last 40 years. Read this book to understand your application's performance that runs on a modern CPU and learn how you can improve it. The 170+ page guide combines the knowledge of many optimization experts from different industries.

Tuning Microsoft Server Clusters Mar 30 2022 A proven methodology for upping performance in business networks, guaranteeing "high availability" (when the network can be reached by anyone who needs it at any time), and saving the organization hundreds of thousands of dollars.

Managing and Processing Big Data in Cloud Computing Jun 08 2020 Big data has presented a number of opportunities across industries. With these opportunities come a number of challenges associated with handling, analyzing, and storing large data sets. One solution to this challenge is cloud computing, which supports a massive storage and computation facility in order to accommodate big data processing. *Managing and Processing Big Data in Cloud Computing* explores the challenges of supporting big data processing and cloud-based platforms as a proposed solution. Emphasizing a number of crucial topics such as data analytics, wireless networks, mobile clouds, and machine learning, this publication meets the research needs of data analysts, IT professionals, researchers, graduate students, and educators in the areas of data science, computer programming, and IT development.

Oracle Database Performance Tuning Interview Questions, Answers and Explanations Jan 28 2022 The Ultimate Reference & Learning Guide for Oracle Database Professionals! Over 150 Interview Questions, Answers, and Explanations It's clear that Oracle is the future for enterprise information systems data storage and retrieval - but finding the right reference materials can be difficult. For the first time, over 150 Oracle Database Performance Tuning Certification Questions are here to guide your learning. From helping you to assess your Oracle Performance Tuning skills to evaluating candidates for a job, Oracle Database Performance Tuning Interview Questions will help you understand very quickly what you really need to know, and what you can safely ignore. The book is organized around Oracle Database Performance Tuning basics such as root cause analysis, database design, hit ratios, average latencies, and wait times. Each question includes everything you need to know to master an Oracle Performance Tuning interview or properly evaluate a candidate. More than just a rehash of Oracle documentation and sales presentations, each question is based on project knowledge and experience gained on successful high-profile Oracle implementations. Key certification and interview topics include: . Root cause analysis . Analysis of response time statistics . Queue theory and the basics of database performance . Hit ratios, Average latency, and wait time improvements

SQL Tuning Aug 11 2020 A poorly performing database application not only costs users time, but also has an impact on other applications running on the same computer or the same network. SQL Tuning provides an essential next step for SQL developers and database administrators who want to extend their SQL tuning expertise and get the most from their database applications. There are two basic issues to focus on when tuning SQL: how to find and interpret the execution plan of an SQL statement and how to change SQL to get a specific alternate execution plan. SQL Tuning provides answers to these questions and addresses a third issue that's even more important: how to find the optimal execution plan for the query to use. Author Dan Tow outlines a timesaving method he's developed for finding the optimum execution plan--rapidly and systematically--regardless of the complexity of the SQL or the database platform being used. You'll learn how to understand and control SQL execution plans and how to diagram SQL queries to deduce the best execution plan for a query. Key chapters in the book include exercises to reinforce the concepts you've learned. SQL Tuning concludes by addressing special concerns and unique solutions to "unsolvable problems." Whether you are a programmer who develops SQL-based applications or a database administrator

or other who troubleshoots poorly tuned applications, SQL Tuning will arm you with a reliable and deterministic method for tuning your SQL queries to gain optimal performance.

Performance Analysis for Java Web Sites May 08 2020 Targeting the critical issue of performance, this guide shows how to resolve bottlenecks, increase speed, and get better overall performance for Java Websites. The author team is a group of seasoned performance experts who have helped hundreds of customers resolve enterprise Website performance issues.

Dynamic Oracle Performance Analytics Aug 03 2022 Use an innovative approach that relies on big data and advanced analytical techniques to analyze and improve Oracle Database performance. The approach used in this book represents a step-change paradigm shift away from traditional methods. Instead of relying on a few hand-picked, favorite metrics, or wading through multiple specialized tables of information such as those found in an automatic workload repository (AWR) report, you will draw on all available data, applying big data methods and analytical techniques to help the performance tuner draw impactful, focused performance improvement conclusions. This book briefly reviews past and present practices, along with available tools, to help you recognize areas where improvements can be made. The book then guides you through a step-by-step method that can be used to take advantage of all available metrics to identify problem areas and work toward improving them. The method presented simplifies the tuning process and solves the problem of metric overload. You will learn how to: collect and normalize data, generate deltas that are useful in performing statistical analysis, create and use a taxonomy to enhance your understanding of problem performance areas in your database and its applications, and create a root cause analysis report that enables understanding of a specific performance problem and its likely solutions. What You'll Learn Collect and prepare metrics for analysis from a wide array of sources Apply statistical techniques to select relevant metrics Create a taxonomy to provide additional insight into problem areas Provide a metrics-based root cause analysis regarding the performance issue Generate an actionable tuning plan prioritized according to problem areas Monitor performance using database-specific normal ranges ?Who This Book Is For Professional tuners: responsible for maintaining the efficient operation of large-scale databases who wish to focus on analysis, who want to expand their repertoire to include a big data methodology and use metrics without being overwhelmed, who desire to provide accurate root cause analysis and avoid the cyclical fix-test cycles that are inevitable when speculation is used

Testing and Tuning Market Trading Systems Jan 04 2020 Build, test, and tune financial, insurance or other market trading systems using C++ algorithms and statistics. You've had an idea and have done some preliminary experiments, and it looks promising. Where do you go from here? Well, this book discusses and dissects this case study approach. Seemingly good backtest performance isn't enough to justify trading real money. You need to perform rigorous statistical tests of the system's validity. Then, if basic tests confirm the quality of your idea, you need to tune your system, not just for best performance, but also for robust behavior in the face of inevitable market changes. Next, you need to quantify its expected future behavior, assessing how bad its real-life performance might actually be, and whether you can live with that. Finally, you need to find its theoretical performance limits so you know if its actual trades conform to this theoretical expectation, enabling you to dump the system if it does not live up to expectations. This book does not contain any sure-fire, guaranteed-riches trading systems. Those are a dime a dozen... But if you have a trading system, this book will provide you with a set of tools that will help you evaluate the potential value of your system, tweak it to improve its profitability, and monitor its on-going performance to detect deterioration before it fails catastrophically. Any serious market trader would do well to employ the methods described in this book. What You Will Learn See how the 'spaghetti-on-the-wall' approach to trading system development can be done legitimately Detect overfitting early in development Estimate the probability that your system's backtest results could have been due to just good luck Regularize a predictive model so it automatically selects an optimal subset of indicator candidates Rapidly find the global optimum for any type of parameterized trading system Assess the ruggedness of your trading system against market changes Enhance the stationarity and information content of your proprietary indicators Nest one layer of walkforward analysis inside another layer to account for selection bias in complex trading systems Compute a lower bound on your system's mean future performance Bound expected periodic returns to detect on-going system deterioration before it becomes severe Estimate the probability of catastrophic drawdown Who This Book Is For Experienced C++ programmers, developers, and software engineers. Prior experience with rigorous statistical procedures to evaluate and maximize the quality of systems is recommended as well.

Tuning Out Nov 01 2019 This is the story of radio presenter Katrina Blowers, a woman who seemed to have everything she ever wanted. But despite the glamour of her media celebrity lifestyle she was left wondering: is that all there is? 'Tuning Out' is about escaping the familiar in order to regain perspective and rediscover romance in distant places.

Performance Analysis and Tuning for General Purpose Graphics Processing Units (GPGPU) Jul 02 2022 General-purpose graphics processing units (GPGPU) have

emerged as an important class of shared memory parallel processing architectures, with widespread deployment in every computer class from high-end supercomputers to embedded mobile platforms. Relative to more traditional multicore systems of today, GPGPUs have distinctly higher degrees of hardware multithreading (hundreds of hardware thread contexts vs. tens), a return to wide vector units (several tens vs. 1-10), memory architectures that deliver higher peak memory bandwidth (hundreds of gigabytes per second vs. tens), and smaller caches/scratchpad memories (less than 1 megabyte vs. 1-10 megabytes). In this book, we provide a high-level overview of current GPGPU architectures and programming models. We review the principles that are used in previous shared memory parallel platforms, focusing on recent results in both the theory and practice of parallel algorithms, and suggest a connection to GPGPU platforms. We aim to provide hints to architects about understanding algorithm aspect to GPGPU. We also provide detailed performance analysis and guide optimizations from high-level algorithms to low-level instruction level optimizations. As a case study, we use n-body particle simulations known as the fast multipole method (FMM) as an example. We also briefly survey the state-of-the-art in GPU performance analysis tools and techniques.

Nonlinear Analysis of Orientation Tuning Mar 06 2020

Performance Tuning for Linux Servers Feb 26 2022 Linux Server Performance Tuning provides the knowledge and skills needed to understand and improve the performance of Linux servers. It describes the collective practical experience of IBM Linux Technology Center experts in Linux performance monitoring, evaluation and measurement, analysis, and tuning of Linux servers. It discusses methodologies for improving and maximizing the performance of business server applications running on an Intel-based hardware platform and the Linux operating system. Readers will obtain valuable insight into the tuning techniques needed to improve the performance of their software running on Linux. This includes an overview of the Linux kernel (including installation), a synopsis of the various Linux performance tools that can be used to isolate performance issues, and how to use them, and tuning principles, strategies and techniques for various Linux components such as the scheduler, memory and I/O subsystems. In addition, case studies for tuning these subsystems are also included, as well as the performance characterization of several Linux server applications, including web servers, database servers, application servers, and print and file servers.

SQL Server Query Performance Tuning Dec 27 2021 Queries not running fast enough? Wondering about the in-memory database features in 2014? Tired of phone calls from frustrated users? Grant Fritchey's book *SQL Server Query Performance Tuning* is the answer to your SQL Server query performance problems. The book is revised to cover the very latest in performance optimization features and techniques, especially including the newly-added, in-memory database features formerly known under the code name Project Hekaton. This book provides the tools you need to approach your queries with performance in mind. *SQL Server Query Performance Tuning* leads you through understanding the causes of poor performance, how to identify them, and how to fix them. You'll learn to be proactive in establishing performance baselines using tools like Performance Monitor and Extended Events. You'll learn to recognize bottlenecks and defuse them before the phone rings. You'll learn some quick solutions too, but emphasis is on designing for performance and getting it right, and upon heading off trouble before it occurs. Delight your users. Silence that ringing phone. Put the principles and lessons from *SQL Server Query Performance Tuning* into practice today. Covers the in-memory features from Project Hekaton. Helps establish performance baselines and monitor against them. Guides in troubleshooting and eliminating of bottlenecks that frustrate users.

Formal SQL Tuning for Oracle Databases Dec 03 2019 The target of SQL tuning is the improvement of the existing execution plan. The authors discuss the removal of brakes in the execution plan. Such "brakes" or bottlenecks can be recognized by a formal analysis of the execution plan. For this purpose no data model knowledge is needed. This is especially beneficial for database administrators because they are usually not or insufficiently familiar with the data model. The book presents numerous practical examples with this method.

1997 IEEE/ACM International Conference on Computer-Aided Design, November 9-13, 1997 San Jose, California Feb 03 2020 This text covers the 1997 International Conference on Computer-Aided Design. It is suitable for students, professors, researchers and other computing professionals."

Oracle Data Warehouse Tuning for 10g Oct 01 2019 "This book should satisfy those who want a different perspective than the official Oracle documentation. It will cover all important aspects of a data warehouse while giving the necessary examples to make the reading a lively experience. - Tim Donar, Author and Systems Architect for Enterprise Data Warehouses *Tuning a data warehouse database* focuses on large transactions, mostly requiring what is known as throughput. Throughput is the passing of large amounts of information through a server, network and Internet environment, backwards and forwards, constantly! The ultimate objective of a data warehouse is the production of meaningful and useful reporting, from historical and archived data. The trick is to make the reports print within an acceptable time frame. A data model contains tables and

relationships between tables. Tuning a data model involves Normalization and Denormalization. Different approaches are required depending on the application, such as OLTP or a Data Warehouse. Inappropriate database design can make SQL code impossible to tune. Poor data modeling can have a most profound effect on database performance since all SQL code is constructed from the data model. * Takes users beyond basics to critical issues in running most efficient data warehouse applications * Illustrates how to keep data going in and out in the most productive way possible * Focus is placed on Data Warehouse performance tuning

Spectral Analysis of Musical Sounds with Emphasis on the Piano Oct 13 2020 This book addresses the analysis of musical sounds from the viewpoint of someone at the intersection between physicists, engineers, piano technicians, and musicians. The study is structured into three parts. The reader is introduced to a variety of waves and a variety of ways of presenting, visualizing, and analyzing them in the first part. A tutorial on the tools used throughout the book accompanies this introduction. The mathematics behind the tools is left to the appendices. Part Two provides a graphical survey of the classical areas of acoustics that pertain to musical instruments: vibrating strings, bars, membranes, and plates. Part Three is devoted almost exclusively to the piano. Several two- and three-dimensional graphical tools are introduced to study various characteristics of pianos: individual notes and interactions among them, the missing fundamental, inharmonicity, tuning visualization, the different distribution of harmonic power for the various zones of the piano keyboard, and potential uses for quality control. These techniques are also briefly applied to other musical instruments studied in earlier parts of the book. For physicists and engineers there are appendices to cover the mathematics lurking beneath the numerous graphs and a brief introduction to Matlab® which was used to generate these graphs. A website accompanying the book (<https://sites.google.com/site/analysisofsoundsandvibrations/>) contains: - Matlab® scripts - mp3 files of sounds - references to YouTube videos - and up-to-date results of recent studies

Database Tuning Dec 15 2020 Tuning your database for optimal performance means more than following a few short steps in a vendor-specific guide. For maximum improvement, you need a broad and deep knowledge of basic tuning principles, the ability to gather data in a systematic way, and the skill to make your system run faster. This is an art as well as a science, and Database Tuning: Principles, Experiments, and Troubleshooting Techniques will help you develop portable skills that will allow you to tune a wide variety of database systems on a multitude of hardware and operating systems. Further, these skills, combined with the scripts provided for validating results, are exactly what you need to evaluate competing database products and to choose the right one. Forward by Jim Gray, with invited chapters by Joe Celko and Alberto Lerner Includes industrial contributions by Bill McKenna (RedBrick/Informix), Hany Saleeb (Oracle), Tim Shetler (TimesTen), Judy Smith (Deutsche Bank), and Ron Yorita (IBM) Covers the entire system environment: hardware, operating system, transactions, indexes, queries, table design, and application analysis Contains experiments (scripts available on the author's site) to help you verify a system's effectiveness in your own environment Presents special topics, including data warehousing, Web support, main memory databases, specialized databases, and financial time series Describes performance-monitoring techniques that will help you recognize and troubleshoot problems

Expert Oracle RAC Performance Diagnostics and Tuning Jan 16 2021 Expert Oracle RAC Performance Diagnostics and Tuning provides comprehensive coverage of the features, technology and principles for testing and tuning RAC databases. The book takes a deep look at optimizing RAC databases by following a methodical approach based on scientific analysis rather than using a speculative approach, twisting and turning knobs and gambling on the system. The book starts with the basic concepts of tuning methodology, capacity planning, and architecture. Author Murali Vallath then dissects the various tiers of the testing implementation, including the operating system, the network, the application, the storage, the instance, the database, and the grid infrastructure. He also introduces tools for performance optimization and thoroughly covers each aspect of the tuning process, using many real-world examples, analyses, and solutions from the field that provide you with a solid, practical, and replicable approach to tuning a RAC environment. The book concludes with troubleshooting guidance and quick reference of all the scripts used in the book. Expert Oracle RAC Performance Diagnostics and Tuning covers scenarios and details never discussed before in any other performance tuning books. If you have a RAC database, this book is a requirement. Get your copy today. Takes you through optimizing the various tiers of the RAC environment. Provides real life case studies, analysis and solutions from the field. Maps a methodical approach to testing, tuning and diagnosing the cluster What you'll learn Dissect the eight stage pre-implementation testing process across all tiers of the RAC cluster Optimize your RAC cluster for availability and scalability Diagnose your cluster to get the root of any performance problem Establish a replicable methodology for testing, tuning, and diagnostics Walk through real-world examples and solutions. Learn how to be proactive to prevent common performance issues Discover an exhaustive list of tools to help optimize your RAC environment Who this book is for Expert Oracle RAC Performance Diagnostics and Tuning is for all those customers implementing RAC systems into a production environment without undergoing a systematic methodology for testing, tuning and problem solving. Table of Contents1. Methodology 2. Capacity Planning and Architecture 3. Testing for Availability 4. Testing for Scalability 5. Real Application Testing 6. Tools and Utilities 7. SQL Tuning 8. Parallel Query Tuning 9. Tuning the

Database 10. Tuning Recovery 11. Tuning Oracle Net 12. Tuning Storage Subsystem 13. Tuning Global Cache 14. Tuning the Cluster Interconnect 15. Optimization of Distributed Workload 16. Tuning the Oracle Clusterware 17. Enqueues, Waits and Latches 18. Problem Diagnostics A. The SQL Scripts Used in This Book Bibliography **Analysis and Tuning Techniques for Subdivision Algorithms** Dec 07 2022

A General Framework for Analysis and Synthesis of Self-tuning Adaptive Controllers Sep 11 2020

Proceedings - International Conference on Large High Voltage Electric Systems (CIGRE). Aug 30 2019

Performance Tuning of Scientific Applications May 20 2021 With contributions from some of the most notable experts in the field, Performance Tuning of Scientific Applications presents current research in performance analysis. The book focuses on the following areas. Performance monitoring: Describes the state of the art in hardware and software tools that are commonly used for monitoring and measuring performance and managing large quantities of data Performance analysis: Discusses modern approaches to computer performance benchmarking and presents results that offer valuable insight into these studies Performance modeling: Explains how researchers deduce accurate performance models from raw performance data or from other high-level characteristics of a scientific computation Automatic performance tuning: Explores ongoing research into automatic and semi-automatic techniques for optimizing computer programs to achieve superior performance on any computer platform Application tuning: Provides examples that show how the appropriate analysis of performance and some deft changes have resulted in extremely high performance Performance analysis has grown into a full-fledged, sophisticated field of empirical science. Describing useful research in modern performance science and engineering, this book helps real-world users of parallel computer systems to better understand both the performance vagaries arising in scientific applications and the practical means for improving performance. Read about the book on HPCwire and insideHPC

SUSE Linux Enterprise Server 12 - System Analysis and Tuning Guide Oct 05 2022 SUSE Linux Enterprise Server 12 - System Analysis and Tuning Guide is an administrator's guide for problem detection, resolution and optimization. Find how to inspect and optimize your system by means of monitoring tools and how to efficiently manage resources. Also contains an overview of common problems and solutions and of additional help and documentation resources. This book is available for free in many languages and different formats on the suse.com web site. This book is printed in grayscale.

Linux Performance Tuning and Capacity Planning Apr 06 2020 This book overviews performance tuning and capacity planning for the experience professional. It also covers traditional UNIX tools that have been ported to Linux. Coverage includes: theoretical overview of performance tuning; a discussion of the risks involved and plans for prevention; examination of popular UNIX tools; examination of native Linux performance tuning tools; concepts of capacity planning; and signing and managing a capacity plan.

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