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# Troubleshooting Oracle Performance

*Methodically identify and solve performance problems  
involving the Oracle database engine*



## Christian Antognini

*Foreword by Cary Millsap, chief executive of Method R Corporation,  
and Jonathan Lewis, author of Cost Based Oracle: Fundamentals*



# Troubleshooting Oracle Performance

**Christian Antognini**

## **Troubleshooting Oracle Performance:**

*Troubleshooting Oracle Performance* Christian Antognini, 2014-06-14 Troubleshooting Oracle Performance 2nd Edition is your systematic guide to diagnosing and resolving performance problems in database backed applications involving Oracle's database engine. Christian Antognini brings a decade and a half experience to his topic. His first edition is one of the most well respected books in its field. This second edition has been rigorously updated to cover the latest developments in Oracle Database 11g Release 2 through Oracle Database 12c. What do you do when your database application isn't running fast enough? You troubleshoot, of course! Finding the slow part of an application is often the easy part of the battle. It's finding a solution that's difficult. Troubleshooting Oracle Performance 2nd Edition helps by providing a systematic approach to addressing the underlying causes of poor database application performance. The author freely shares his experience while explaining the underlying foundations of how SQL statements are executed by the Oracle database engine. You'll be able to draw a solid foundation of theory and shared experience as you face head on the performance challenges in your daily work. Written for developers by an application developer who has learned by doing. Gives a systematic approach to solving database application performance problems. Helps you plan for performance as you would for any other application requirement.

*Troubleshooting Oracle Performance* Christian Antognini, 2008-08-20 What do you do when your database application isn't running fast enough? You troubleshoot, of course! Finding the slow part of an application is often the easy part of the battle. It's finding a solution that's difficult. Troubleshooting Oracle Performance helps by providing a systematic approach to addressing the underlying causes of poor database application performance. Written for developers by an application developer who has learned by doing. Gives a systematic approach to solving database application performance problems. Helps you plan for performance as you would for any other application requirement.

*Troubleshooting Oracle Performance, Second Edition* Christian Antognini, 2014 Troubleshooting Oracle Performance 2nd Edition is your systematic guide to diagnosing and resolving performance problems in database backed applications involving Oracle's database engine. Christian Antognini brings a decade and a half experience to his topic. His first edition is one of the most well respected books in its field. This second edition has been rigorously updated to cover the latest developments in Oracle Database 11g Release 2 through Oracle Database 12c. What do you do when your database application isn't running fast enough? You troubleshoot, of course! Finding the slow part of an application is often the easy part of the battle. It's finding a solution that's difficult. Troubleshooting Oracle Performance 2nd Edition helps by providing a systematic approach to addressing the underlying causes of poor database application performance. The author freely shares his experience while explaining the underlying foundations of how SQL statements are executed by the Oracle database engine. You'll be able to draw a solid foundation of theory and shared experience as you face head on the performance challenges in your daily work. Written for developers by an application developer who has learned by doing. Gives a systematic approach to solving database application performance

problems Helps you plan for performance as you would for any other application requirement What you ll learn Systematically identify performance problems Configure the query optimizer to meet performance goals Read and recognize inefficient execution plans Minimize the impact of parsing upon performance Optimize data access joins and the physical design of your database Improve performance through parallel processing materialized views and result caching Apply SQL tuning techniques such as hints SQL profiles stored outlines and SQL plan baselines Reduce inefficiencies from too much procedural code Who this book is for Troubleshooting Oracle Performance Second Edition is targeted at application developers and database administrators involved in troubleshooting performance problems in Oracle based applications

**Oracle Performance Troubleshooting** Robin Schumacher,2003 A reference for any Oracle database administrators who must ensure the consistency of data across distributed platforms this book is for those administrators who recognize the benefits of distributing Oracle data The intricacies of Oracle multi master replication are described and working code examples of complex multi master replication are provided Also included is information on Oracle replication tuning and monitoring

**Oracle Performance Troubleshooting** Robin Schumacher,2003-01-01 If you re a DBA who s looking for real world Oracle tuning techniques Oracle scripts and advice on how to get to the heart of critical Oracle performance problems then you ve come to the right place Written by one the world s top DBAs and Oracle internals experts Robin Schumacher focuses his incredible knowledge of the Oracle data dictionary into a superb book that show how to quickly troubleshoot and correct Oracle performance problems

*"The Oracle Performance Tuning Team Needs to Develop a New Troubleshooting Procedure that Includes Statspack"* Herbert Williams,2002

**Troubleshooting Java Performance** Erik Ostermueller,2017-09-30 Troubleshoot the most widespread and pernicious Java performance problems using a set of open source and freely available tools that will make you dramatically more productive in finding the root causes of slow performance This is a brief book that focuses on a small number of performance anti patterns and you ll find that most problems you encounter fit into one of these anti patterns The book provides a specific method in a series of steps referred to as the P A t h Checklist that encompasses persistence alien systems threads and heap management These steps guide you through a troubleshooting process that is repeatable that you can apply to any performance problem in a Java application This technique is especially helpful in dark environments with little monitoring Performance problems are not always localized to Java but often fall into the realms of database access and server load This book gives attention to both of these issues through examples showing how to identify repetitive SQL and identify architecture wide performance problems ahead of production rollout Learn how to apply load like an expert and determine how much load to apply to determine whether your system scales Included are walk throughs of a dozen server side performance puzzles that are ready to run on your own machine Following these examples helps you learn to Assess the performance health of four main problems areas in a Java system The P A t h Checklist presents each area with its own set of plug it in now tools Pinpoint the code at fault for CPU and

other bottlenecks without a Java profiler Find memory leaks in just minutes using heapSpank the author s open source leak detector utility that is freely available from heapSpank.org The repeatable method provided in this book is an antidote to lackluster average response times that are multi second throughout the industry This book provides a long absent easy to follow performance training regimen that will benefit anyone programming in Java What You ll Learn Avoid the 6 most common ways to mess up a load test Determine the exact number of threads to dial into the load generator to test your system s scalability Detect the three most common SQL performance anti patterns Measure network response times of calls to back end systems alien systems Identify whether garbage collection performance is healthy or unhealthy and whether delays are caused by problems in the old or new generation so you know which generation needs to be adjusted Who This Book Is For Intermediate and expert Java developers and architects Java experts will be able to update their skill set with the latest and most productive open source Java performance tools Intermediate Java developers are exposed to the most common performance defects that repeatedly show up in Java applications ones that account for the bulk of slow performing systems Experts and intermediates alike will benefit from the chapters on load generation

### **Oracle Database 11g**

**Performance Tuning Recipes** Sam Alapati,Darl Kuhn,Bill Padfield,2011-10-17 Performance problems are rarely problems per se They are more often crises during which you re pressured for results by a manager standing outside your cubicle while your phone rings with queries from the help desk You won t have the time for a leisurely perusal of the manuals nor to lean back and read a book on theory What you need in that situation is a book of solutions and solutions are precisely what Oracle Database 11g Performance Tuning Recipes delivers Oracle Database 11g Performance Tuning Recipes is a ready reference for database administrators in need of immediate help with performance issues relating to Oracle Database The book takes an example based approach wherein each chapter covers a specific problem domain Within each chapter are recipes showing by example how to perform common tasks in that chapter s domain Solutions in the recipes are backed by clear explanations of background and theory from the author team Whatever the task if it s performance related you ll probably find a recipe and a solution in this book Provides proven solutions to real life Oracle performance problems Offers relevant background and theory to support each solution Written by a team of experienced database administrators successful in their careers

### **Oracle Wait Interface: A Practical Guide to Performance Diagnostics & Tuning**

Richmond Shee,Kirtikumar Deshpande,K. Gopalakrishnan,2004-07-16 Troubleshoot tune and optimize your Oracle database efficiently and successfully every time This book explains how to take full advantage of the revolutionary Oracle Wait Interface to quickly pinpoint and solve core problems and bottlenecks and increase productivity exponentially

### **Expert**

**Oracle Practices** Pete Finnigan,Alex Gorbachev,Tim Gorman,Charles Hooper,Jonathan Lewis,Niall Litchfield,Robyn Sands,Joze Senegacnik,Riyaj Shamsudeen,Jeremiah Wilton,Graham Wood,Connie Green,Karen Morton,Randolf Geist,Uri Shaft,Melanie Caffrey,Andrew Morton,Tom Green,Paul Wilton,Joe Lewis,2010-03-24 This book is an anthology of effective

database management techniques representing the collective wisdom of the OakTable Network With an emphasis upon performance but also branching into security national language and other issues the book helps you deliver the most value for your company s investment in Oracle Database technologies You ll learn to effectively plan for and monitor performance to troubleshoot systematically when things go wrong and to manage your database rather than letting it manage you

*Software Performance and Scalability* Henry H. Liu,2011-09-20 Praise from the Reviewers The practicality of the subject in a real world situation distinguishes this book from others available on the market Professor Behrouz Far University of Calgary This book could replace the computer organization texts now in use that every CS and CpE student must take It is much needed well written and thoughtful Professor Larry Bernstein Stevens Institute of Technology A distinctive educational text on software performance and scalability This is the first book to take a quantitative approach to the subject of software performance and scalability It brings together three unique perspectives to demonstrate how your products can be optimized and tuned for the best possible performance and scalability The Basics introduces the computer hardware and software architectures that predetermine the performance and scalability of a software product as well as the principles of measuring the performance and scalability of a software product Queuing Theory helps you learn the performance laws and queuing models for interpreting the underlying physics behind software performance and scalability supplemented with ready to apply techniques for improving the performance and scalability of a software system API Profiling shows you how to design more efficient algorithms and achieve optimized performance and scalability aided by adopting an API profiling framework perfBasic built on the concept of a performance map for drilling down performance root causes at the API level Software Performance and Scalability gives you a specialized skill set that will enable you to design and build performance into your products with immediate measurable improvements Complemented with real world case studies it is an indispensable resource for software developers quality and performance assurance engineers architects and managers It is an ideal text for university courses related to computer and software performance evaluation and can also be used to supplement a course in computer organization or in queuing theory for upper division and graduate computer science students

*OCP: Oracle9i Performance Tuning Study Guide* Joseph C. Johnson,2006-07-14 Here s the book you need to prepare for Exam 1Z0 033 Oracle9i Database Performance Tuning This Study Guide provides In depth coverage of official exam objectives Practical information on optimizing Oracle9i databases Hundreds of challenging review questions in the book and on the CD Authoritative coverage of all exam objectives including Using Diagnostic and Tuning Tools Monitoring and Managing the Buffer Cache Optimizing Sort Operations Detecting and Resolving Lock Contention Diagnosing Shared Server Performance Issues Using Oracle Blocks Efficiently Tuning SQL Statements Configuring Resource Manager Note CD ROM DVD and other supplementary materials are not included as part of eBook file

**Relational Database Design and Implementation** Jan L. Harrington,2016-04-15 Relational Database Design and Implementation Clearly Explained Fourth Edition provides the

conceptual and practical information necessary to develop a database design and management scheme that ensures data accuracy and user satisfaction while optimizing performance Database systems underlie the large majority of business information systems Most of those in use today are based on the relational data model a way of representing data and data relationships using only two dimensional tables This book covers relational database theory as well as providing a solid introduction to SQL the international standard for the relational database data manipulation language The book begins by reviewing basic concepts of databases and database design then turns to creating populating and retrieving data using SQL Topics such as the relational data model normalization data entities and Codd s Rules and why they are important are covered clearly and concisely In addition the book looks at the impact of big data on relational databases and the option of using NoSQL databases for that purpose Features updated and expanded coverage of SQL and new material on big data cloud computing and object relational databases Presents design approaches that ensure data accuracy and consistency and help boost performance Includes three case studies each illustrating a different database design challenge Reviews the basic concepts of databases and database design then turns to creating populating and retrieving data using SQL

Oracle8 Troubleshooting Rama Velpuri,Anand Adkoli,1999 This latest edition has all new material on Oracle8 and Oracle Applications such as Oracle Financials and Oracle Web Application Server The CD ROM is value packed featuring Oracle World Wide Customer Support technical bulletins sample scripts and sample configuration files

Dynamic Oracle Performance Analytics Roger Cornejo,2018-12-06 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

**How to Make Things Faster** Cary Millsap,2023-06-09

Slow systems are frustrating They waste time and money But making consistently great decisions about performance can be easy if you understand what's going on This book explains in a clear and thoughtful voice why systems perform the way they do It's for anybody who's curious about how computer programs and other processes use their time and about what you can do to improve them Through a mix of personal vignettes and technical use cases Cary Millsap reviews the process of improving performance and provides best practices for optimizing systems efficiently You'll learn how to identify the information needed to improve a system how to find the root causes of performance issues and how to fix them You'll also learn how performance optimization is both a skill set and a mindset and how to develop both over time If you're a computer professional whose success relies on software that goes fast by the end of this book you'll be able to identify view scope analyze and remedy performance issues with consistency and confidence

Oracle Certified Professional DBO Certification Exam Guide Jason S. Couchman,2000 The main content of each chapter includes figures tables tips and other content in the same format as other exam guides and features multiple choice questions modeled after the OCP exam questions and answers along with explanations CD contains electronic fully searchable version hyperlinked to more than 300 practice exam questions

**Oracle Database Problem Solving and Troubleshooting Handbook** Tariq Farooq, Mike Ault, Paulo Portugal, Mohamed Houri, Syed Jaffar Hussain, Jim Czuprynski, Guy Harrison, 2016-04-04 An Expert Guide for Solving Complex Oracle Database Problems Oracle Database Problem Solving and Troubleshooting Handbook delivers comprehensive practical and up to date advice for running the Oracle Database reliably and efficiently in complex production environments Seven leading Oracle experts have brought together an unmatched collection of proven solutions hands on examples and step by step tips for Oracle Database 12c 11g and other recent versions of Oracle Database Every solution is crafted to help experienced Oracle DBAs and DMAs understand and fix serious problems as rapidly as possible The authors cover LOB segments UNDO tablespaces high GC buffer wait events poor query response times latch contention indexing XA distributed transactions RMAN backup recovery and much more They also offer in depth coverage of a wide range of topics including DDL optimization VLDB tuning database forensics adaptive cursor sharing data pumps data migration SSDs indexes and how to go about fixing Oracle RAC problems Learn how to Choose the quickest path to solve high impact problems Use modern best practices to make your day more efficient and predictable Construct your Call 9 1 1 plan for future database emergencies Proactively perform maintenance to improve your environment's stability Save time with industry standard tools and scripts Register your product at [informat.com](http://informat.com) register for convenient access to downloads updates and corrections as

they become available [Oracle Applications Performance Tuning Handbook](#) Andy Tremayne,2000 Oracle users can turn to his handbook for a range of strategies methodologies hints and tips that will allow them to solve performance problems Included are real world case studies troubleshooting flowcharts and detailed but simple methods for troubleshooting and fixing Oracle Application issues The CD contains a Tuning Toolkit with optimization tools and extensions **Oracle**

**Business Intelligence Discoverer 11g Handbook** Michael Armstrong-Smith,Darlene Armstrong-Smith,2013-11-05 Master Oracle Business Intelligence Discoverer 11g Provide secure immediate access to critical business information from relational and multidimensional data sources across your organization Oracle Business Intelligence Discoverer 11g Handbook shows you how to optimize this intuitive ad hoc query reporting analysis and web publishing tool for maximum performance Real world examples illustrate the powerful analysis security and reporting capabilities Enable business users at all levels to make faster more informed decisions with help from this Oracle Press guide Configure and manage Oracle Business Intelligence Discoverer 11g Run functional queries using the Workbook Wizard Add sorts calculations percentages totals and parameters using Oracle Business Intelligence Discoverer Plus Format queries into well organized reports with graphs tables titles headers and footers Perform data analysis statistical classification deviation trend and aging Use Oracle Business Intelligence Discoverer Viewer 11g to analyze format export e mail and print reports Manage integration with Oracle WebLogic Server Refine existing queries using interactive pivoting drilling and hyper drilling Build effective conditions and refine parameters calculations sorting and percentages Manage access and sharing rights scheduling privileges and user preferences Build an end user layer and a business area using Oracle Business Intelligence Discoverer Administrator Use Oracle Enterprise Manager s Fusion Middleware Control feature to manage Oracle Business Intelligence Discoverer settings and preferences Implement powerful analytic functions using templates

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