Oracle Tracer

Cary Millsap

The Method R Guide to Mastering Oracle Trace Data Cary Millsap,2019-04-11 The definitive guide to accurate, high-precision measurement of user performance experiences, for Oracle application developers and DBAs. When you want to know where every microsecond of your Oracle-based application's time has gone, there's only one way to find out: tracing. This book is the definitive guide to mastering Oracle trace data. The third edition... ● Explains how to create Oracle trace files and understand the stories they tell you about your applications and the time they consume. ● Prescribes a reliable method for optimizing Oracle-based applications throughout all the phases of your software development life cycle. ● Demonstrates through worked examples how Oracle application developers and database administrators can use Oracle trace data and Method R software to solve and prevent performance problems. ● Contains more than 50 pages of new material including new worked examples, updated information about production-safe tracing, state-of-the-art techniques for measuring connection pooling applications, and more. The first time I used Method R and their software, I made a 6.5-hour query run in less than 11 minutes. In the years since, I've gotten a lot of results like that. I've made a 2-second label scan run in 0.2 seconds, which saved a warehouse team three years' worth of waiting per year. I've proven to a skeptical application vendor that it was the anti-virus software--not Oracle--that was causing a performance problem. And I've saved an international airline over $250,000 on a hardware upgrade that was destined to disappoint them. This book will show you how _you_ can do things like these, too. --Guðmundur Jósepsson, CEO, Miracle Iceland

The Method R Guide to Mastering Oracle Trace Data, Second Edition Cary V. Millsap,2016-05-20 There are many options these days for measuring and monitoring Oracle(r) Database application performance. This book is about the one that endures as the best foundation there is for understanding Oracle performance: the Oracle extended SQL trace feature. This book is the course book for the 1-day Mastering Oracle Trace Data course taught by the author, Cary Millsap. It is not a book about discarding your Oracle fixed views or your monitoring tools that poll them. It is a book about how to look at Oracle performance another way, a way that has worked extraordinarily well for many of us. It's about new ways of thinking about performance using new tools for understanding aspects of your applications that you've never understood before. Contents include: Part one - A coherent framework for understanding all aspects of performance beginning with foundational definitions, case studies illustrating the use of Oracle extended SQL trace data in the performance problem and repair context, detailed descriptions of how to create and obtain extended SQL trace data in different languages and application contexts, detailed explanations of how to understand the story that the trace data is trying to tell you, detailed reference material about Oracle timing measurements and how to use them. Part two - Over 100 pages of worked examples (case studies) illustrating how to analyze and solve performance problems with Oracle-based applications, using the Method R Profiler, Method R Tools, and Method R Trace commercial software packages. Part three - A perspective on why trace files are still important in this modern age of ASH and AWR, and a list of explanations by dozens of Oracle professionals about why they use trace data today.

Oracle Database Administration: The Essential Refe David Kreines,Brian Laskey,1999-04-14 Oracle database administration requires a vast amount of information and an ability to perform a myriad of tasks-- from installation to tuning to network troubleshooting to overall daily administration. Oracle provides many tools for performing these tasks; the trick is knowing what tool is right for the job, what commands you need to issue (and when), and what parameters and privileges you need to set. And, as every DBA knows, you need to know how do all this under pressure, while you face crisis after crisis. This book provides a concise reference to the enormous store of information an Oracle DBA needs every day (as well

as what's needed only when disaster strikes). It's crammed full of quick-reference tables, task lists, and other summary material that both novice and expert DBAs will use time and time again. It covers the commands and operations new to Oracle8, but also provides Oracle7 information for sites still running earlier versions. Oracle Database Administration provides two types of material: DBA tasks--chapters summarizing how to perform critical DBA functions: installation, performance tuning, preventing data loss, networking, security and monitoring, auditing, query optimization, and the use of various Oracle tools and utilities DBA reference--chapters providing a quick reference to the Oracle instance and database, the initialization (INIT.ORA) parameters, the SQL statements commonly used by DBAs, the data dictionary tables, the system privileges and roles, and the SQL*Plus, Export, Import, and SQL*Loader syntax The book also includes a resource summary with references to additional books, Web sites, and other online and offline resources of special use to Oracle DBAs. Oracle Database Administration is the single essential reference you'll turn to again and again. If you must choose only one book to use at the office, keep at home, or carry to a site you're troubleshooting, this will be that book.

Oracle Tuning Donald K. Burleson,2010 For Oracle tuning professionals wishing to add more tools to their Oracle tuning toolbox, this guidebook introduces the various tuning analytical tools and helpful strategies to make the database easier to use. Details describe how to extract information from the database and use it to determine and increase efficiency. It also provides specific steps with detailed information on how to congeal large amounts of database performance information into one pool from which the DBA can carefully choose tuning options based on what is predicted, all to give them the biggest improvement in performance for the least time and money investment. Sample code, sample code results, and guidelines on how to interpret the results help users manipulate code in an effective way. With countless hints, tips, and tools, the guide fully explains how to work with the Oracle system on order to achieve database performance excellence.

Toad for Oracle Unleashed Bert Scalzo,Dan Hotka,2015-06-29 Bert Scalzo and Dan Hotka have written the definitive, up-to-date guide to Version 12.x, Dell's powerful new release of Toad for Oracle. Packed with step-by-step recipes, detailed screen shots, and hands-on exercises, Toad for Oracle Unleashed shows both developers and DBAs how to maximize their productivity. Drawing on their unsurpassed experience running Toad in production Oracle environments, Scalzo and Hotka thoroughly cover every area of Toad's functionality. You'll find practical insights into each of Toad's most useful tools, from App Designer to Doc Generator, ER Diagrammer to Code Road Map. The authors offer proven solutions you can apply immediately to solve a wide variety of problems, from maintaining code integrity to automating performance and scalability testing. Learn how to... Install and launch Toad, connect to a database, and explore Toad's new features Customize Toad to optimize productivity in your environment Use the Editor Window to execute SQL and PL/SQL, and view, save, or convert data Browse your schema, and create and edit objects Quickly generate useful reports with FastReport and Report Manager Clarify your database's tables and data with the powerful Entity Relationship Diagrammer (ERD) and HTML documentation generator Work more efficiently with PL/SQL using code templates, snippets, and shortcuts Automate actions and applications with Automation Designer Perform key DBA tasks including database health checks, tablespace management, database and schema comparisons, and object rebuilding Identify and optimize poorlyperforming SQL and applications ON THE WEB: Download all examples and source code presented in this book from informit.com/title/9780134131856 as it becomes available.

Tracing Oracle Jeffrey L Holt,Cary V Millsap,2023-05-15 We can help you trace it. When you want to know where every microsecond of your Oracle-based application's time has gone, there's only one way to

find out: tracing. This book is your definitive guide for controlling Oracle's tracing feature. It covers tracing features available in every Oracle Database edition, including Express Edition (XE), Standard Edition (SE), Enterprise Edition (EE), Exadata, Oracle Cloud Infrastructure (OCI), and Oracle Autonomous Database (ADB-S and ADB-D).

DTrace Brendan Gregg,Jim Mauro,2011-03-18 The Oracle Solaris DTrace feature revolutionizes the way you debug operating systems and applications. Using DTrace, you can dynamically instrument software and quickly answer virtually any question about its behavior. Now, for the first time, there's a comprehensive, authoritative guide to making the most of DTrace in any supported UNIX environment-- from Oracle Solaris to OpenSolaris, Mac OS X, and FreeBSD. Written by key contributors to the DTrace community, DTrace teaches by example, presenting scores of commands and easy-to-adapt, downloadable D scripts. These concise examples generate answers to real and useful questions, and serve as a starting point for building more complex scripts. Using them, you can start making practical use of DTrace immediately, whether you're an administrator, developer, analyst, architect, or support professional. The authors fully explain the goals, techniques, and output associated with each script or command. Drawing on their extensive experience, they provide strategy suggestions, checklists, and functional diagrams, as well as a chapter of advanced tips and tricks. You'll learn how to Write effective scripts using DTrace's D language Use DTrace to thoroughly understand system performance Expose functional areas of the operating system, including I/O, filesystems, and protocols Use DTrace in the application and database development process Identify and fix security problems with DTrace Analyze the operating system kernel Integrate DTrace into source code Extend DTrace with other tools This book will help you make the most of DTrace to solve problems more quickly and efficiently, and build systems that work faster and more reliably.

The Method R Guide to Mastering Oracle Trace Data Cary V. Millsap,2013-07-26 There are many options these days for measuring and monitoring Oracle® Database application performance. This book is about the one that endures as the best foundation there is for understanding Oracle performance: the Oracle extended SQL trace feature. This book is the course book for the 1-day Mastering Oracle Trace Data course taught by the author, Cary Millsap. It is not a book about discarding your Oracle fixed views or your monitoring tools that poll them. It is a book about how to look at Oracle performance another way, a way that has worked extraordinarily well for many of us. It's about new ways of thinking about performance using new tools for understanding aspects of your applications that you've never understood before. Contents include: Chapter 1 Thinking Clearly about Performance - over twenty brief sections that prescribe a coherent framework for understanding all aspects of performance beginning with foundational definitions. Chapter 2 Making Friends with the Oracle Database - a sequence of case studies illustrating the use of Oracle extended SQL trace data in the performance problem diagnosis and repair context. Chapter 3 Oracle Extended SQL Trace - a detailed explanation of where Oracle's trace data elements come from and how to assemble them into a trustworthy description of how applications consume time. Chapter 4 Oracle Database Timed Event Reference - an overview of what the Oracle timed events mean, how to learn more than your documentation can tell you, and how to respond to problems caused by excessive call counts or excessive call latencies. Chapter 5 Cases in Oracle Trace Data Analysis - seven case studies illustrating how to use the Method R Tools commercial software package (not included with the book) to analyze and solve problems with Oracle-based application performance.

Optimizing Oracle Performance Cary Millsap,Jeff Holt,2003-09-16 Two Oracle scientists focus on optimizing Oracle performance rather than ineffectually tuning it, elaborating on methods that work to identify performance bottlenecks and predict and quantify the performance improvements expected from

upgrades.

Oracle Database 11g Performance Tuning Recipes Sam Alapati,Darl Kuhn,Bill Padfield,2011-10-18 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 Database 12c Performance Tuning Recipes Sam Alapati,Darl Kuhn,Bill Padfield,2014-01-21 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 12c Performance Tuning Recipes delivers. Oracle Database 12c 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 Gets straight to the point for when you're under pressure for results

Oracle PL/SQL for DBAs Arup Nanda,Steven Feuerstein,2005-10-31 PL/SQL, Oracle's powerful procedural language, has been the cornerstone of Oracle application development for nearly 15 years. Although primarily a tool for developers, PL/SQL has also become an essential tool for database administration, as DBAs take increasing responsibility for site performance and as the lines between developers and DBAs blur. Until now, there has not been a book focused squarely on the language topics of special concern to DBAs Oracle PL/SQL for DBAs fills the gap. Covering the latest Oracle version, Oracle Database 10g Release 2 and packed with code and usage examples, it contains: A quick tour of the PL/SQL language, providing enough basic information about language fundamentals to get DBAs up and running Extensive coverage of security topics for DBAs: Encryption (including both traditional methods and Oracle's new Transparent Data Encryption, TDE); Row-Level Security(RLS), Fine-Grained Auditing (FGA); and random value generation Methods for DBAs to improve query and database performance with cursors and table functions Coverage of Oracle scheduling, which allows jobs such as database monitoring andstatistics gathering to be scheduled for regular execution Using Oracle's built-in packages (DBMS_CRYPTO, DBMS_RLS, DBMS_FGA, DBMS_RANDOM,DBMS_SCHEDULING) as a base, the book describes ways of

building on top of these packages to suit particular organizational needs. Authors are Arup Nanda, Oracle Magazine 2003 DBA of the Year, and Steven Feuerstein, the world's foremost PL/SQL expert and coauthor of the classic reference, Oracle PL/SQL Programming. DBAs who have not yet discovered how helpful PL/SQL can be will find this book a superb introduction to the language and its special database administration features. Even if you have used PL/SQL for years, you'll find the detailed coverage in this book to be an invaluable resource.

Oracle Performance Tuning Mark Gurry,Peter Corrigan,1996-11 A complete revision of the original title, this second edition adds new material on Oracle 7.3 and many Oracle 8 features. It explores new Oracle capabilities like parallel server, parallel query, and distributed database. It contains more detail on constraints and triggers, many more examples, and information on new tuning tools like the Oracle Performance Pack, Oracle Trace, and Oracle Expert.

<u>Oracle in a Nutshell</u> Rick Greenwald,David Kreines,2003 Oracle Languages - Syntax summary for SQL language statements, SQL function calls PL/SQL language statements and characteristics, PL/SQL built-in package headers, and Java (JDBC and SQLJ) interfaces to the Oracle database.

Oracle Insights Cary Millsap,Anjo Kolk,Connor McDonald,Tim Gorman,Kyle Hailey,David Ensor,Jonathan Lewis,Gaja Krishna Vaidyanatha,David Ruthven,James Morle,2004-07-23 * Encapsulates the knowledge and experience of some of the foremost experts in Oracle development, the vast majority of whom are also established and successful authors. * Covers landmark software and techniques (invented by the authors) that have changed the face of Oracle development. * A broad ranging, anecdotal and humorous title that will appeal to anyone (developers, DBAs, manager, architects etc) involved with and Oracle-based project. * Simplified code snippets, the book provides real solutions that people can then build upon themselves.

Oracle Performance Tuning for 10gR2 Gavin JT Powell,2011-04-08 Tuning of SQL code is generally cheaper than changing the data model. Physical and configuration tuning involves a search for bottlenecks that often points to SQL code or data model issues. Building an appropriate data model and writing properly performing SQL code can give 100%+ performance improvement. Physical and configuration tuning often gives at most a 25% performance increase. Gavin Powell shows that the central theme of Oracle10gR2 Performance Tuning is four-fold: denormalize data models to fit applications; tune SQL code according to both the data model and the application in relation to scalability; create a well-proportioned physical architecture at the time of initial Oracle installation; and most important, mix skill sets to obtain the best results. Fully updated for version 10gR2 and provides all necessary transition material from version 9i Includes all three aspects of Oracle database tuning: data model tuning, SQL & PL/SQL code tuning, physical plus configuration tuning Contains experienced guidance and real-world examples using large datasets Emphasizes development as opposed to operating system perspective

Pro .NET Oracle Programming Mark A. Williams,2007-03-01 *Exploits new features of Visual Studio .NET 2003 and the Oracle database 10g. (But concepts and code still apply to the earlier releases, 8i and 9i, that currently comprise most business systems). *Explains Oracle programming using both C# and VB.NET languages; provides a one-stop reference for VS.NET developers working with Oracle. *Excellent resource for J2EE programmers in environments considering moving to a .NET environment (and retaining the Oracle database).

Oracle SQL David C. Kreines,2000 SQL (Structured Query Language), the heart of a relational database management system, is the language used to query the database, to create new tables in the database, to update and delete fields, and to set access privileges. Aimed at everyone who needs to access an Oracle

database using SQL, including developers, DBAs, designers, and managers, this book delivers all the information they need to know about standard SQL, and Oracle's extensions to it.

<u>Oracle Performance Survival Guide</u> Guy Harrison,2009-10-09 Oracle Performance Survival Guide A Systematic Approach to Database Optimization The fast, complete, start-to-finish guide to optimizing Oracle performance Oracle Performance Survival Guide offers a structured, systematic, start-to-finish methodology for optimizing Oracle performance as efficiently as possible. Leading Oracle expert Guy Harrison shows how to maximize your tuning investment by focusing on causes rather than symptoms, and by quickly identifying the areas that deliver the greatest "bang for the buck." Writing for DBAs and developers with all levels of experience, Harrison covers every area of Oracle performance management, from application design through SQL tuning, contention management through memory and physical IO management. He also presents up-to-the-minute guidance for optimizing the performance of the Oracle 11g Release 2. You'll start by mastering Oracle structured performance tuning principles and tools, including techniques for tracing and monitoring Oracle execution. Harrison illuminates the interaction between applications and databases, guides you through choosing tuning tools, and introduces upfront design techniques that lead to higher-performance applications. He also presents a collection of downloadable scripts for reporting on all aspects of database performance. Coverage includes • "Tuning by layers," the most effective, highest-value approach to Oracle performance optimization • Making the most of Oracle's core tools for tracing, monitoring, and diagnosing performance • Highly efficient database logical and physical design, indexing, transaction design, and API use • SQL and PL/SQL tuning, including the use of parallel SQL techniques • Minimizing contention for locks, latches, shared memory, and other database resources • Optimizing memory and physical disk IO • Tuning Real Application Cluster (RAC) databases guyharrison.net informit.com/ph

<u>OCP: Oracle 10g Administration II Study Guide</u> Doug Stuns,Tim Buterbaugh,Bob Bryla,2006-02-20 Here's the book you need to prepare for the Oracle Database 10g Administration II exam, 1Z0-043. This Study Guide was developed to meet the exacting requirements of today's Oracle certification candidates. In addition to the consistent and accessible instructional approach that has earned Sybex the Best Study Guide selection in CertCities Readers' Choice Awards for two consecutive years, this book provides: Clear and concise information on advanced database administration with Oracle 10g Practical examples and insights drawn from the authors' real-world experiences Leading-edge exam preparation software, including a test engine and electronic flashcards You'll also find authoritative coverage of key exam topics, including: Configuring Recovery Manager Understanding the Flashback Database Recovering from User Errors Working with Globalization Support Using the Scheduler to Automate Tasks Monitoring and Managing Storage Securing the Oracle Listener Look to Sybex for the knowledge and skills needed to succeed in today's competitive IT marketplace.

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