

## BLOG

# Optimizing Oracle EBS for Better Performance



# Optimizing Oracle Performance

**Guy Harrison**

## **Optimizing Oracle Performance:**

Oracle Performance Survival Guide 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

**Optimizing Oracle Performance** Cary Millsap, 2003 Oracle system performance inefficiencies often go undetected for months or even years even under intense scrutiny because traditional Oracle performance analysis methods and tools are fundamentally flawed They're unreliable and inefficient Oracle DBAs and developers are all too familiar with the outlay of time and resources blown budgets missed deadlines and marginally effective performance fiddling that is commonplace with traditional methods of Oracle performance tuning In this crucial book Cary Millsap former VP of Oracle's System Performance Group clearly and concisely explains how to use Oracle's response time statistics to diagnose and repair performance problems Cary also shows how queueing theory can be applied to response time statistics to predict the impact of upgrades and other system changes Optimizing Oracle Performance eliminates the time consuming trial and error guesswork inherent in most conventional approaches to tuning You can determine exactly where a system's performance problem is and with equal importance where it is not in just a few minutes even if the problem is several years old

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### **Optimizing Oracle Performance**

Cary Millsap,Jeff Holt,2003-09-16 Oracle system performance inefficiencies often go undetected for months or even years even under intense scrutiny because traditional Oracle performance analysis methods and tools are fundamentally flawed They re unreliable and inefficient Oracle DBAs and developers are all too familiar with the outlay of time and resources blown budgets missed deadlines and marginally effective performance fiddling that is commonplace with traditional methods of Oracle performance tuning In this crucial book Cary Millsap former VP of Oracle s System Performance Group clearly and concisely explains how to use Oracle s response time statistics to diagnose and repair performance problems Cary also shows how queueing theory can be applied to response time statistics to predict the impact of upgrades and other system changes Optimizing Oracle Performance eliminates the time consuming trial and error guesswork inherent in most conventional approaches to tuning You can determine exactly where a system s performance problem is and with equal importance where it is not in just a few minutes even if the problem is several years old Optimizing Oracle Performance cuts a path through the complexity of current tuning methods and streamlines an approach that focuses on optimization techniques that any DBA can use quickly and successfully to make noticeable even dramatic improvements For example the one thing database users care most about is response time Naturally DBAs focus much of their time and effort towards improving response time But it is

entirely too easy to spend hundreds of hours to improve important system metrics such as hit ratios average latencies and wait times only to find users are unable to perceive the difference And an expensive hardware upgrade may not help either It doesn t have to be that way Technological advances have added impact efficiency measurability predictive capacity reliability speed and practicality to the science of Oracle performance optimization Optimizing Oracle Performance shows you how to slash the frustration and expense associated with unraveling the true root cause of any type of performance problem and reliably predict future performance The price of this essential book will be paid back in hours saved the first time its methods are used

**Database Performance Tuning and Optimization** Sitansu S. Mittra,2006-04-18 Scope The book provides comprehensive coverage of database performance tuning and optimization using Oracle 8i as the RDBMS The chapters contain both theoretical discussions dealing with principles and methodology as well as actual SQL scripts to implement the methodology The book combines theory with practice so as to make it useful for DBAs and developers irrespective of whether they use Oracle 8i Readers who do not use Oracle 8i can implement the principles via scripts of their own written for the particular RDBMS they use I have tested each script for accuracy and have included the sample outputs generated from them An operational database has three levels conceptual internal and external The conceptual level results from data modeling and logical database design When it is implemented via an RDBMS such as Oracle it is mapped onto the internal level Database objects of the conceptual level are associated with their physical counterparts in the internal level An external level results from a query against the database and as such provides a window to the database There are many external levels for a single conceptual level

Oracle SQL Performance Tuning and Optimization Kevin Meade,2014-09-16 Written by a Senior Database Administrator who has worked with the Oracle RDBMS for thirty years this is a book which teaches the skill of SQL Tuning for the Oracle Database Not a list of one off tricks or tips nor a glossing over of topics this book offers an in depth process covering discovery analysis and problem resolution Learn the science behind SQL Tuning Learn and apply the FILTERED ROWS PERCENTAGE Cardinality based method of tuning Determine a query s Driving Table and Join Order Construct Query Diagrams Data Models and Join Trees Build and use Count Filter and Reconstruction Queries Identify Waste in a Query Execution Plan Zero in on Cardinality Divergence using Estimated vs Actuals Use the ACCESS FILTER COVERAGE strategy to build indexes for Problem Queries Exploit THE 2% RULE in analyzing Access method and Join method Classify queries as Precision Style or Warehouse Style Understand Hash Join mechanics and make Hash Joins go faster Make HINTS work as Detection Tools rather than clubs Avoid early Database Design flaws Manage Statistics and deal with common Statistics problems NDV Uniform Distribution Independence Dynamic Sampling Staleness Skew Dependence Defaulting Out Of Bounds Transiency Bloat Perfect your Question Based Analysis Technique and more Included are a special chapter for EXADATA a LAB which demonstrates the cardinality based process of SQL Tuning and twenty three magical SQL scripts that make the process of SQL Tuning easy to do Learn the skill of SQL Tuning as taught by an expert who does it for a

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Embed PL SQL in SQL and manage user defined functions Embed SQL in PL SQL using a set based approach to handle large volumes of data Properly write and deploy data manipulation language triggers to avoid performance problems Work with advanced datatypes including LOBs and XML Use caching techniques to avoid redundant operations Effectively use dynamic SQL to reduce the amount of code needed and streamline system management Manage version control and ensure that performance fixes are successfully deployed Code examples in the book are available for download **Oracle SQL**

**High-performance Tuning** Guy Harrison, Raymond Aron, 2001 Canada was young during the First World War and with as many as 20 000 underage soldiers leaving their homes to join the war effort the country's army was too Jim at 17 was one of them and he penned countless letters home But these weren't the writings of an ordinary boy They were the letters of a lad who left a small farming community for the city on July 15 1915 a boy who volunteered to serve with the 79th Queen's Own Cameron Highlanders Jim's letters home gloss over the horrors of war focusing instead on issues of the home front of harvesting training the horses and the price of hogs Rarely do these letters especially those to his mother and father mention the mud and rats the lice and stench of the trenches or the night duty of cutting barbed wire in no man's land For 95 years his letters remained in a shoebox decorated by his mother Jim was just 18 when he was wounded and died during the Battle of the Somme Hold the Oxo tells the story that lies between the lines of his letters filling in the historical context and helping us to understand what it was like to be Jim **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

**Optimizing Oracle Database Performance on a Unix Server** John McAvoy, 2000 **Oracle Performance Tuning 101** Gaja Krishna Vaidyanatha, Kirtikumar Deshpande, John Kostelac, 2001 Tuning Oracle databases or Oracle Performance Management OPM is what database administrators DBAs do to help the database run optimally With the increase in e-commerce and deployment of databases and applications on the Internet the task of keeping databases running is becoming increasingly important This entry level study teaches the essentials of keeping databases running at top performance The guide covers releases 7.3 through 8i for NT Linux and Unix platforms

**Oracle High-Performance SQL Tuning** Donald K. Burleson, 2001-08-17 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 From the official Oracle Press comes a comprehensive guide to tuning SQL statements for optimal execution This expert resource explains how to view the internal execution plan of any SQL statement and change it to improve the performance of the statement You'll get details on Oracle's optimizer modes SQL extensions the STATSPACK utility and a wealth of methods for tuning Oracle SQL statements **Database Performance Tuning and Optimization** Sitansu S. Mittra, 2003 **Oracle Database Performance**

Tuning Interview Questions, Answers and Explanations Terry Sanchez,2006-09-01 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

**Oracle Database Performance and Scalability** Henry H. Liu,2011-10-24 The innovative performance and scalability features with each newer edition of the Oracle database system can present challenges for users This book teaches software developers and students how to effectively deal with Oracle performance and scalability issues throughout the entire life cycle of developing Oracle based applications Using real world case studies to deliver key theories and concepts the book introduces highly dependable and ready to apply performance and scalability optimization techniques augmented with Top 10 Oracle Performance and Scalability Features as well as a supplementary support website

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