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# Troubleshooting Oracle Performance (Expert's Voice In Oracle)

THE EXPERT'S VOICE® IN ORACLE

Covers
Oracle Database
9*i*R2 through 11gR1

# 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

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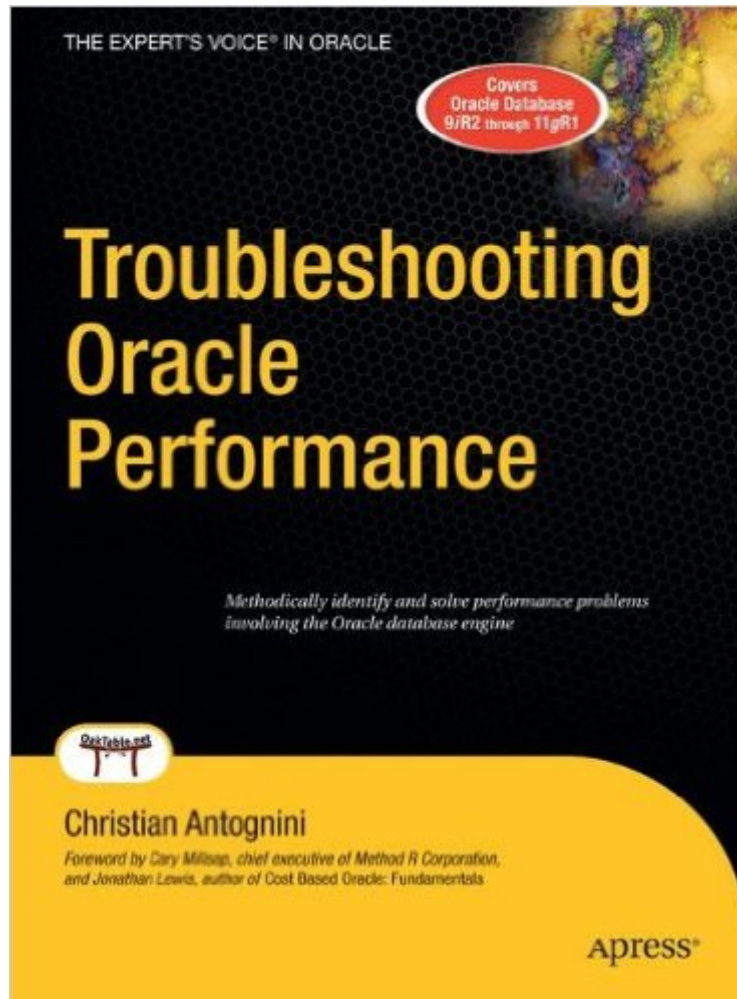
## Synopsis

What do you do when your database application isn&#146;t running fast enough? You troubleshoot, of course. Finding the slow part of an application is often the easy part of the battle. It&#146;s finding a solution that&#146;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  What you&#146;ll learn See how to treat and plan for performance as a basic application requirement Identify performance problems using a systematic and repeatable approach Configure your query optimizer to meet your application performance goals  Optimize table accesses, joins, and physical table layout Read and recognize inefficient SQL execution plans Reduce inefficiencies from too much procedural code Who this book is for  For application developers and database administrators involved in troubleshooting performance problems of Oracle-based applications.

## Book Information

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## Customer Reviews

"Troubleshooting Oracle Performance" is the most thorough, yet physically compact book covering performance tuning with Oracle 9i R2 through 11g R1 on the market. It is quite clear that a great deal of effort was made by the author to carefully verify the tips and test results contained in the

book and to organize the material in a logical progression, thus building a bridge between the reader's current understanding to the understanding of complex tuning approaches.What this book accomplishes, which most other performance tuning books seem to miss, is to indicate which performance tuning features are available in each Oracle release (and which are available at no additional licensing cost) as the various performance tuning approaches are discussed. Not only does the book indicate when a feature would be appropriate, but also potential problems ("Pitfalls and Fallacies") associated with each feature.The depth of coverage of Oracle 11g R1 features is surprisingly thorough given the short amount of time which that version has been on the market. A little more detail in a couple areas, such as hacking stored outlines, would have been helpful; at the same time, everyone who reads the book might have a different opinion of what needed additional detail, the book could have grown to 2500 or more pages, and likely would have been obsolete by the time it was published.The Apress Roadmap on the back cover of the book indicates that this book should be read before "Forecasting Oracle Performance", "Expert Oracle Database Architecture", and "Cost-Based Oracle Fundamentals". The "Troubleshooting Oracle Performance" book seems to assume that the Oracle database concepts are well understood.

The author Christian Antognini has done a wonderful job in writing a great book on how to systematically analyze issues with Oracle 11g. Let's be honest, Oracle 11g is a beast and take a very long time to master all areas of its core functionality. I have been using Oracle for only a few years and I sometime still consider myself a newbie.The recent version of 11g has added lots of new functionality such as database replay, sql access advisor, sucurefiles, flashback data archiving, tablespace encryption, data masking and so much more. IT sometimes feels that version 11g is a totally new database compared to version 10.x.The great thing about this book which others fail is that it covers all versions of Oracle from version 9i to 11gR1. So even if you are using an older version this book still is extremely valuable to own. It will actually save you money if you are using an older version of Oracle because it can be used as you gradually upgrade to newer versions of Oracle. Another reason to buy it!This book assumes that you already have a good knowledge of using Oracle and goes right into many different scenarios of using different front-end technologies where performance issues can happen and hot to step-by-step figure out where your problem may be coming from.The author focuses on tracing database calls, profiling PL/SQL code, how to review workload statistics and object statistics, how to configure your query optimizer, and one of the most useful sections of the book is Chapter 6 where the author focus on many different execution plans. I also liked Chapter 10 where the author goes through all the different types of SQL commands (joins,

nested loops, merge joins, hash joins, etc.) and how they can be improved and optimized.

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