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# Java Performance The Definitive Guide

GETTING THE MOST OUT OF YOUR CODE

Scott Oaks

# Java Performance The Definitive Guide

**Marco Faella**



## **Java Performance The Definitive Guide:**

Java Performance: The Definitive Guide Scott Oaks, 2014-04-10 Coding and testing are often considered separate areas of expertise In this comprehensive guide author and Java expert Scott Oaks takes the approach that anyone who works with Java should be equally adept at understanding how code behaves in the JVM as well as the tunings likely to help its performance You ll gain in depth knowledge of Java application performance using the Java Virtual Machine JVM and the Java platform including the language and API Developers and performance engineers alike will learn a variety of features tools and processes for improving the way Java 7 and 8 applications perform Apply four principles for obtaining the best results from performance testing Use JDK tools to collect data on how a Java application is performing Understand the advantages and disadvantages of using a JIT compiler Tune JVM garbage collectors to affect programs as little as possible Use techniques to manage heap memory and JVM native memory Maximize Java threading and synchronization performance features Tackle performance issues in Java EE and Java SE APIs Improve Java driven database application performance

*Java Performance* Scott Oaks, 2014 Coding and testing are often considered separate areas of expertise In this comprehensive guide author and Java expert Scott Oaks takes the approach that anyone who works with Java should be equally adept at understanding how code behaves in the JVM as well as the tunings likely to help its performance You u2019ll gain in depth knowledge of Java application performance using the Java Virtual Machine JVM and the Java platform including the language and API Developers and performance engineers alike will learn a variety of features tools and processes for improving the way Java 7 and 8 applications perform Apply four principles for obtaining the best results from performance testing Use JDK tools to collect data on how a Java application is performing Understand the advantages and disadvantages of using a JIT compiler Tune JVM garbage collectors to affect programs as little as possible Use techniques to manage heap memory and JVM native memory Maximize Java threading and synchronization performance features Tackle performance issues in Java EE and Java SE APIs Improve Java driven database application performance Java

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features Tackle performance issues in Java EE and Java SE APIs Improve Java driven database application performance

**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 IntermediateJava 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

**The Definitive Guide to GCC** William von Hagen, 2011-06-29 The GNU Compiler Collection GCC offers a variety of compilers for different programming languages including C C Java Fortran and Ada The Definitive Guide to GCC Second Edition has been revised to reflect the changes made in the most recent major GCC release version 4 Providing in depth information on GCC s enormous array of features and options and introducing crucial tools such as

autoconf gprof and libtool this book functions as both a guide and reference This book goes well beyond a general introduction to GCC and covers key programming techniques such as profiling and optimization that when used in conjunction with GCC s advanced features can greatly improve application performance This second edition will prove to be an invaluable resource whether youre a student seeking familiarity with this crucial tool or an expert who uses GCC on a daily basis

**Seriously Good Software** Marco Faella, 2020-03-05 Summary Serious developers know that code can always be improved With each iteration you make optimizations small and large that can have a huge impact on your application s speed size resilience and maintainability In *Seriously Good Software Code that Works Survives and Wins* author teacher and Java expert Marco Faella teaches you techniques for writing better code You ll start with a simple application and follow it through seven careful refactorings each designed to explore another dimension of quality Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Great code blends the skill of a programmer with the time tested techniques and best practices embraced by the entire development community Although each application has its own context and character some dimensions of quality are always important This book concentrates on seven pillars of seriously good software speed memory usage reliability readability thread safety generality and elegance The Java based examples demonstrate techniques that apply to any OO language About the book *Seriously Good Software* is a handbook for any professional developer serious about improving application quality It explores fundamental dimensions of code quality by enhancing a simple implementation into a robust professional quality application Questions exercises and Java based examples ensure you ll get a firm grasp of the concepts as you go When you finish the last version of the book s central project you ll be able to confidently choose the right optimizations for your code What s inside Evaluating software qualities Assessing trade offs and interactions Fulfilling different objectives in a single task Java based exercises you can apply in any OO language About the reader For developers with basic object oriented programming skills and intermediate Java skills About the author Marco Faella teaches advanced programming at a major Italian university His published work includes peer reviewed research articles a Java certification manual and a video course

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*Python and XML* Christopher A. Jones, Fred L. Drake, 2002 This book has two objectives to provide a comprehensive reference on using XML with Python and to illustrate the practical applications of these technologies in an enterprise environment with examples

[Running Weblogs with Slash](#) Chromatic, Brian Aker, Dave Krieger, 2002 This is written for system administrators who may not have the time to learn about Slash by reading the source code It collects all the current Slash knowledge from the code Website and mailing lists and organizes it into a coherent package

*Exim: The Mail*

*Transfer Agent* Philip Hazel,2001-07-01 Exim delivers electronic mail both local and remote It has all the virtues of a good postman it s easy to talk to reliable efficient and eager to accommodate even the most complex special requests It s the default mail transport agent installed on some Linux systems runs on many versions of Unix and is suitable for any TCP IP network with any combination of hosts and end user mail software Exim is growing in popularity because it is open source scalable and rich in features such as the following Compatibility with the calling interfaces and options of Sendmail for which Exim is usually a drop in replacement Lookups in LDAP servers MySQL and PostgreSQL databases and NIS or NIS services Support for many kinds of address parsing including regular expressions that are compatible with Perl 5 Sophisticated error handling Innumerable tuning parameters for improving performance and handling enormous volumes of mail Best of all Exim is easy to configure You never have to deal with ruleset 3 or worry that a misplaced asterisk will cause an inadvertent mail bomb While a basic configuration is easy to read and can be created quickly Exim s syntax and behavior do get more subtle as you enter complicated areas like virtual hosting filtering and automatic replies This book is a comprehensive survey that provides quick information for people in a hurry as well as thorough coverage of more advanced material     **CGI**

*Programming with Perl* Scott Guelich,Shishir Gundavaram,Gunther Birznieks,2000-06-29 Programming on the Web today can involve any of several technologies but the Common Gateway Interface CGI has held its ground as the most mature method and one of the most powerful ones of providing dynamic web content CGI is a generic interface for calling external programs to crunch numbers query databases generate customized graphics or perform any other server side task There was a time when CGI was the only game in town for server side programming today although we have ASP PHP Java servlets and ColdFusion among others CGI continues to be the most ubiquitous server side technology on the Web CGI programs can be written in any programming language but Perl is by far the most popular language for CGI Initially developed over a decade ago for text processing Perl has evolved into a powerful object oriented language while retaining its simplicity of use CGI programmers appreciate Perl s text manipulation features and its CGI pm module which gives a well integrated object oriented interface to practically all CGI related tasks While other languages might be more elegant or more efficient Perl is still considered the primary language for CGI CGI Programming with Perl Second Edition offers a comprehensive explanation of using CGI to serve dynamic web content Based on the best selling CGI Programming on the World Wide Web this edition has been completely rewritten to demonstrate current techniques available with the CGI pm module and the latest versions of Perl The book starts at the beginning by explaining how CGI works and then moves swiftly into the subtle details of developing CGI programs Topics include Incorporating JavaScript for form validation Controlling browser caching Making CGI scripts secure in Perl Working with databases Creating simple search engines Maintaining state between multiple sessions Generating graphics dynamically Improving performance of your CGI scripts     **Tomcat: The Definitive Guide**

Jason Brittain,Ian F. Darwin,2007-10-23 It takes a book as versatile as its subject to cover Apache Tomcat the popular open

source Servlet and JSP container and high performance web server Tomcat The Definitive Guide is a valuable reference for administrators and webmasters a useful guide for programmers who want to use Tomcat as their web application server during development or in production and an excellent introduction for anyone interested in Tomcat Updated for the latest version of Tomcat this new edition offers a complete guide to installing configuring maintaining and securing this servlet container In fact with such a wealth of new information this is essentially a new book rather than a simple revision You will find details for using Tomcat on all major platforms including Windows Linux OS X Solaris and FreeBSD along with specifics on Tomcat configuration files and step by step advice for deploying and running web applications This book offers complete information for Installation and startup procedures Configuring Tomcat including realms roles users servlet sessions and JNDI resources including JDBC DataSources Deploying web applications individual servlets and JSP pages and web application archive files Tuning Tomcat to measure and improve performance Integrating Tomcat with Apache Web Server Securing Tomcat to keep online thugs at bay Tomcat configuration files server.xml and web.xml and more Debugging and Troubleshooting diagnosing problems with Tomcat or a web application Compiling your own Tomcat rather than using the pre built release Running two or more Tomcat servlet containers in parallel This book also offers an overview of the Tomcat open source project s community resources including docs mailing lists and more Community interest fueled a strong demand for a Tomcat guide from O Reilly The result clearly exceeds expectations      Foundations and Practice of Security Abdessamad Imine, José M. Fernandez, Jean-Yves Marion, Luigi Logrippo, Joaquin Garcia-Alfaro, 2018-02-16 This book constitutes revised selected papers from the 10th International Symposium on Foundations and Practice of Security FPS 2017 held in Nancy France in October 2017 The 20 papers presented in this volume were carefully reviewed and selected from 53 submissions The papers were organized in topical sections named access control formal verification privacy physical security network security encrypted DBs and blockchain vulnerability analysis and deception systems and defence against attacks and anonymity      **ADO ActiveX Data Objects** Jason T. Roff, 2001 The architecture of ADO ActiveX Data Objects Microsoft s newest form of database communication is simple concise and efficient This indispensable reference takes a comprehensive look at every object collection method and property of ADO for developers who want to get a leg up on this technology      *Java Performance* Scott Oaks, 2020-02-11 Coding and testing are generally considered separate areas of expertise In this practical book Java expert Scott Oaks takes the approach that anyone who works with Java should be adept at understanding how code behaves in the Java Virtual Machine including the tunings likely to help performance This updated second edition helps you gain in depth knowledge of Java application performance using both the JVM and the Java platform Developers and performance engineers alike will learn a variety of features tools and processes for improving the way the Java 8 and 11 LTS releases perform While the emphasis is on production supported releases and features this book also features previews of exciting new technologies such as ahead of time compilation and experimental garbage collections

Understand how various Java platforms and compilers affect performance Learn how Java garbage collection works Apply four principles to obtain best results from performance testing Use the JDK and other tools to learn how a Java application is performing Minimize the garbage collector's impact through tuning and programming practices Tackle performance issues in Java APIs Improve Java driven database application performance     Java Enterprise in a Nutshell Jim Farley, William Crawford, 2006 With the recent release of Java 2 Enterprise Edition 1.4 developers are being called on to add even greater more complex levels of interconnectivity to their applications To do this Java developers need a clear understanding of how to apply the new APIs and the capabilities and pitfalls in the program which they can discover in this edition     **Programming Embedded Systems in C and C++** Michael Barr, 1999 This book introduces embedded systems to C and C programmers Topics include testing memory devices writing and erasing flash memory verifying nonvolatile memory contents controlling on chip peripherals device driver design and implementation and more     *Java 5.0 Tiger* Brett McLaughlin, David Flanagan, 2004-06-25 Ch 1 What's new Ch 2 Generics Ch 3 Enumerated types Ch 4 Autoboxing and unboxing Ch 5 Varargs Ch 6 Annotations Ch 7 The for in statement Ch 8 Static imports Ch 9 Formatting Ch 10 Threading     **Head First Java** Kathy Sierra, Bert Bates, 2003 Head First Java engages readers on many levels bringing the latest learning theories and research together to create not just a book to read but a multi sensory learning experience     **PC Mag** , 1996-10-22 PCMag.com is a leading authority on technology delivering Labs based independent reviews of the latest products and services Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology     **Lotus Domino Administration in a Nutshell** Greg Neilson, 2000 Whether you're looking to change messaging servers modify your administration tasks to a simpler and more efficient level or ensure the security and flexibility of your web application server Lotus Domino Administration in a Nutshell will give you the everyday help you need to make the most of this reliable and scalable integrated server platform Jacket



## Unveiling the Energy of Verbal Art: An Psychological Sojourn through **Java Performance The Definitive Guide**

In some sort of inundated with displays and the cacophony of instantaneous connection, the profound energy and emotional resonance of verbal artistry usually fade in to obscurity, eclipsed by the constant barrage of sound and distractions. However, set within the lyrical pages of **Java Performance The Definitive Guide**, a fascinating function of fictional beauty that impulses with natural thoughts, lies an unique trip waiting to be embarked upon. Published by way of a virtuoso wordsmith, this exciting opus books visitors on an emotional odyssey, lightly revealing the latent possible and profound affect stuck within the intricate internet of language. Within the heart-wrenching expanse of this evocative analysis, we can embark upon an introspective exploration of the book is key styles, dissect its interesting writing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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