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Java Performance The Definitive Guide

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Java Performance Definitive Guide

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Java Performance Tuning Jack Shirazi,2003-01-21 Java application performance is tied pretty heavily to the underlying Java Virtual Machine and the new 1.4 version of Java has significant changes that mean previously used performance tips and strategies may no longer work Significantly revised and expanded this second edition not only covers Java 1.4 but adds new coverage of JDBC NIO Servlets EJB and JavaServer Pages Suitable for intermediate and advanced Java developers this text also covers JDBC RMI CORBA Servlets JavaServer Pages and custom tag libraries XML internationalization JavaMail Enterprise JavaBeans and performance tuning It should be a useful resource for teaching how to create a tuning strategy how to use profiling tools to understand a program's behaviour and how to avoid performance penalties from inefficient code making them more efficient and effective The result is code that's robust maintainable and fast

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 you're a student seeking familiarity with this crucial tool or an expert who uses GCC on a daily basis

Troubleshooting Java Performance Erik Ostermuller,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

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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

Tomcat: The Definitive Guide Jason Brittain, Ian F. Darwin, 2003-06-13 Jakarta Tomcat is not only the most commonly used open source servlet engine today it's become the de facto standard by which other servlet engines are measured Powerful and flexible it can be used as a stand alone web server or in conjunction with another server like Apache or IIS to run servlets or JSPs But mastery of Tomcat is not easy because it's as complex as it is complete Tomcat The Definitive Guide answers vexing questions that users administrators and developers alike have been asking This concise guide provides much needed information to help harness Tomcat's power and wealth of features Tomcat The Definitive Guide offers something for everyone who uses Tomcat System and network administrators will find detailed instructions on installation configuration and maintenance For users it supplies insightful information on how to deploy

Tomcat And seasoned enterprise Java developers will have a complete reference to setting up running and using this powerful software The book begins with an introduction to the Tomcat server and includes an overview of the three types of server configurations stand alone in process and out of process The authors show how directories are laid out cover the initial setup and describe how to set the environment variables and modify the configuration files concluding with common errors problems and solutions In subsequent chapters they cover The server xml configuration file Java Security manager Authentication schemes and Tomcat users The Secure Socket Layer SSL Tomcat JDBC Realms Installing servlets and Java Server Pages Integrating Tomcat with Apache Advanced Tomcat configuration and much more Tomcat The Definitive Guide covers all major platforms including Windows Solaris Linux and Mac OS X contains details on Tomcat configuration files and has a quick start guide to get developers up and running with Java servlets and JavaServer Pages If you ve struggled with this powerful yet demanding technology in the past this book will provide the answers you need **Scala Programming**

Mastery: A Definitive Guide to Programming Essentials Adam Jones,2025-01-07 Scala Programming Mastery A Definitive Guide to Programming Essentials is the ultimate resource for developers determined to excel in the Scala programming language This expertly crafted guide delves into Scala s extensive capabilities merging object oriented and functional programming paradigms with advanced topics like concurrency design patterns and smooth interoperability with both Java and JavaScript ecosystems Whether you re a beginner or transitioning from another language this book offers a clear systematic exploration of Scala s syntax control structures collections and much more Emphasizing best practices and practical examples each chapter builds upon the knowledge gained previously ensuring a thorough understanding of Scala s elegant and powerful features Step into the world of Scala programming with this definitive guide and harness the ability to create robust scalable and maintainable applications Embrace the future of software development with Scala Programming Mastery A Definitive Guide to Programming Essentials and become a part of the proficient Scala developer community

Advanced Multimedia and Ubiquitous Engineering James J. (Jong Hyuk) Park,Hai Jin,Young-Sik Jeong,Muhammad Khurram Khan,2016-08-29 This volume presents selected papers from prominent researchers participating in the 11th International Conference on Future Information Technology and the 10th International Conference on Multimedia and Ubiquitous Engineering Beijing China April 20 22 2016 These large international conferences provided an opportunity for academic and industry professionals to discuss recent progress in the fields of multimedia technology and ubiquitous engineering including new models and systems and novel applications associated with the utilization and acceptance of ubiquitous computing devices and systems The contributions contained in this book also provide more information about digital and multimedia convergence intelligent applications embedded systems mobile and wireless communications bio inspired computing grid and cloud computing the semantic web user experience and HCI security and trust computing This book describes the state of the art in multimedia and ubiquitous engineering and future IT models and their applications

The Definitive Guide to Terracotta Terracotta Inc Inc,2008-08-29 Get the definitive guide on all the fundamentals of Terracotta as well as user secrets recipes and prepackaged frameworks Written by Terracotta s chief technology officer Ari Zilka and his team The Definitive Guide to Terracotta Cluster the JVM for Spring Hibernate and POJO Scalability covers the following High Availability HA nth degree scaling and clustering for traditional J2EE and Java EE 5 applications using Seam or other application as well as Spring based enterprise applications Everyday Terracotta using its prepackaged frameworks and integration recipes including configuration and customization for your application tuning no matter the scale Power user secrets available including config modules customized advanced performance tuning SDLC Maven and more *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 Table of Contents Part 1 Preliminaries 1 Software qualities and a problem to solve 2 Reference implementation Part 2 Software Qualities 3 Need for speed Time efficiency 4 Precious memory Space efficiency 5 Self conscious code Reliability through monitoring 6 Lie to me Reliability through testing 7 Coding aloud Readability 8 Many cooks in the kitchen Thread safety 9 Please recycle Reusability [UML in a Nutshell](#) Sinan Si Alhir,1998 The Unified Modeling Language UML for the first time in the history of systems engineering gives practitioners a common language This concise quick reference explains how to use each component of the language

including its extension mechanisms and the Object Constraint Language OCL **Windows 98 Annoyances** David Karp,1998-10-30 The author of the popular Windows Annoyances takes readers step by step through the workarounds for the annoyances found in the new Windows 98 operating system **Programming Jakarta Struts** Chuck Cavaness,2004 A bestselling book on a popular technology this revision of Programming Jakarta Struts keeps it up to date ensuring strong sales into the future **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 **POSIX Programmers Guide** Donald Lewine,1991-04 Software Operating Systems Advanced Perl Programming Sriram Srinivasan,1997 Covers advanced features of Perl how the Perl interpreter works and presents areas of modern computing technology such as networking user interfaces persistence and code generation *Designing with Javascript* Nick Heinle,Bill Peña,2002 A guide for beginners offers an overview of JavaScript basics and explains how to create Web pages identify browsers and integrate sound graphics and animation into Web applications Termcap and Terminfo John Strang,Linda Mui,Tim O'Reilly,1991 Software Operating Systems

Java Performance Definitive Guide Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Java Performance Definitive Guide**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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