

# Java Performance Tuning 2nd Edition

Java Performance Tuning 2nd Edition

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### Getting the Most Out of Your Code Apress

When you need quick answers for developing or debugging Java programs, this pocket guide provides a handy reference to standard features of the Java programming language and its platform. You'll find helpful programming examples, tables, figures, and lists, as well as Java 8 features such as Lambda Expressions and the Date and Time API. It's an ideal companion, whether you're in the office, in the lab, or on the road. This book also provides material to help you prepare for the Oracle Certified Associate Java Programmer exam. Quickly find Java language details, such as naming conventions, types, statements and blocks, and object-oriented programming Get details on the Java SE platform, including development basics, memory management, concurrency, and generics Browse through information on basic input/output, NIO 2.0, the Java collections framework, and the Java Scripting API Get supplemental references to fluent APIs, third-party tools, and basics of the Unified Modeling Language (UML)

[Vital techniques of Java 7 and polyglot programming](#) O'Reilly Media

Java 7 has a number of features that will please developers. Madhusudhan Konda provides an overview of these, including strings in switch statements, multi-catch exception handling, try-with-resource statements, the new File System API, extensions of the JVM, support for dynamically-typed languages, and the fork and join framework for task parallelism.

### Java Performance and Scalability Prentice Hall PTR

Summary Mule in Action, Second Edition is a totally-revised guide covering Mule 3 fundamentals and best practices. It starts with a quick ESB overview and then dives into rich examples covering core concepts like sending, receiving, routing, and transforming data. About the Technology An enterprise service bus is a way to integrate enterprise applications using a bus-like infrastructure. Mule is the leading open source Java ESB. It borrows from the Hohpe/Woolf patterns, is lightweight, can publish REST and SOAP services, integrates well with Spring, is customizable, scales well, and is cloud-ready. About the Book Mule in Action, Second Edition is a totally revised guide covering Mule 3 fundamentals and best practices. It starts with a quick ESB overview and then dives into rich examples covering core concepts like sending, receiving, routing, and transforming data. You'll get a close look at Mule's standard components and how to roll out custom ones. You'll also pick up techniques for testing, performance tuning, and BPM orchestration, and explore cloud API integration for SaaS applications. Written for developers, architects, and IT managers, this book requires familiarity with Java but no previous exposure to Mule or other ESBs. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. What's Inside Full coverage of Mule 3 Integration with cloud services Common transports, routers, and transformers Security, routing, orchestration, and transactions About the Authors David Dossot is a software architect and has created numerous modules and transports for Mule. John D'Emic is a principal solutions architect and Victor Romero a solutions architect, both at MuleSoft, Inc. Table of Contents PART 1 CORE MULE Discovering Mule Processing messages with Mule Working with connectors Transforming data with Mule Routing data with Mule Working with components and patterns PART 2 RUNNING MULE Integration architecture with Mule Deploying Mule Exception handling and transaction management with Mule Securing Mule Tuning Mule PART 3 TRAVELING FURTHER WITH MULE Developing with Mule Writing custom cloud connectors and processors Augmenting Mule with orthogonal technologies

### Hibernate Tips SAP PRESS

Drawing on the authors knowledge of the Java programming language and their extensive experience working on performance issues, the book reveals common mistakes and misconceptions concerning the performance characteristics of Java technologies. It offers overall development strategies and concrete, battle-tested techniques to dramatically improve the performance of applications constructed with the Java programming language. Java Platform Performance highlights the importance of integrating performance evaluation into the application development process and discusses measurement techniques. The book then presents practical tactics for enhancing application performance in the areas of I/O, RAM footprint, small object management, algorithms, data structures, Swing, and deployment. Specific topics covered include: \*Incorporating performance

evaluation into the development process \*Profiling and benchmarking \*Building scalable, fast Swing GUIs \*Using high-speed I/O \*Computing and controlling the RAM footprint \*Reducing the number of classes \*Eliminating temporary objects \*Selecting high-performance algorithms and data structures \*Using Java native code and applet packaging efficiently

*Secure Electronic Commerce* Simon and Schuster

Written in Henry Liu's clear, concise style, Java Performance and Scalability gets right to the point. With clearly explained concepts, most pertinent theories, precise step-by-step procedures, and large volume of illustrative charts and tables with highly reliable data supporting behind, you gain quickly the necessary knowledge and skills for being able to cope with Java application performance and scalability issues without having to resort to more experienced professionals or expensive external consultants. Specifically, it helps you learn the following knowledge and skills that are essential for you to become more effective in contributing to the success of your organization: \* What you need to know at minimum about the architecture of modern hardware so that you can make smart decisions on when you should pour your time on your application and when you can just throw in more advanced hardware to get by. \* What you need to know about garbage collection theories in general and how they are implemented with widely used Java Virtual Machines like HotSpot JVMs. \* Precise methodologies, procedures, and programs that you can start to use immediately to help you profile and tune your Java applications. \* How you can design and build performance and scalability into your product proactively without having to face tough retrofitting decisions or even torrents of customer escalations later on. In addition, the book contains interesting data for your reference, associated with oops compression, CMS garbage collection tuning, DoEscapeAnalysis, G1 versus CMS comparison, etc., all based on full scale, rigorous performance and scalability tests with real products.

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*Java and the Internet* Packt Publishing Ltd

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. Intermediate Java 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.

*Java Performance and Scalability: Server-side programming techniques* Dreamtech Press

Helps readers eliminate performance problems, covering topics including bottlenecks, profiling tools, strings, algorithms, distributed systems, and servlets.

## Detecting Anti-Patterns with Open Source Tools IBM Redbooks

Performance tuning is an experimental science, but that doesn't mean engineers should resort to guesswork and folklore to get the job done. Yet that's often the case. With this practical book, intermediate to advanced Java technologists working with complex technology stacks will learn how to tune Java applications for performance using a quantitative, verifiable approach. Most resources on performance tend to discuss the theory and internals of Java virtual machines, but this book focuses on the practicalities of performance tuning by examining a wide range of aspects. There are no simple recipes, tips and tricks, or algorithms to learn. Performance tuning is a process of defining and determining desired outcomes. And it requires diligence. Learn how Java principles and technology make the best use of modern hardware and operating systems Explore several performance tests and common anti-patterns that can vex your team Understand the pitfalls of measuring Java performance numbers and the drawbacks of microbenchmarking Dive into JVM garbage collection logging, monitoring, tuning, and tools Explore JIT compilation and Java language performance techniques Learn performance aspects of the Java Collections API and get an overview of Java concurrency

*Pro Java EE 5 Performance Management and Optimization* Apress

An overview of the programming language's fundamentals covers syntax, initialization, implementation, classes, error handling, objects, applets, multiple threads, projects, and network programming.

*Thinking in Java* "O'Reilly Media, Inc."

Software -- Programming Languages.

*Java Performance Tuning* Prentice Hall Professional

Explore the latest Java-based software development techniques and methodologies through the project-based approach in this practical guide. Unlike books that use abstract examples and lots of theory, Real-World Software Development shows you how to develop several relevant projects while learning best practices along the way. With this engaging approach, junior developers capable of writing basic Java code will learn about state-of-the-art software development practices for building modern, robust and maintainable Java software. You'll work with many different software development topics that are often excluded from software develop how-to references. Featuring real-world examples, this book teaches you techniques and methodologies for functional programming, automated testing, security, architecture, and distributed systems.

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*Sun Performance and Tuning* Java Performance Tuning

Java® Performance Companion shows how to systematically and proactively improve Java performance with today's advanced multicore hardware and complex operating system environments. The authors, who are all leading Java performance and Java HotSpot VM experts, help you improve performance by using modern software engineering practices, avoiding common mistakes, and applying tips and tricks gleaned from years of real-world experience. Picking up where Charlie Hunt and Binu John's classic Java Performance left off, this book provides unprecedented detail on two powerful Java platform innovations: the Garbage First (G1) garbage collector and the HotSpot VM Serviceability Agent. Coverage includes Leveraging G1 to overcome limitations in

parallel, serial, and CMS garbage collection Understanding each stage of G1 GC collections, both young and old Getting under the hood with G1 and efficiently fine-tuning it for your application Identifying potential optimizations, interpreting experimental results, and taking action Exploring the internals of the HotSpot VM Using HotSpot VM Serviceability Agent to analyze, triage, and resolve diverse HotSpot VM issues Troubleshooting out of memory errors, Java level deadlocks, and HotSpot VM crashes Extending the Serviceability Agent, and using the Plugin for VisualVM Mastering useful HotSpot VM command line options not covered in Java™ Performance Java® Performance Companion can help you squeeze maximum performance and value from Java with JDK 8 or 9—for any application, in any environment. Register your product at [informit.com/register](http://informit.com/register) for convenient access to downloads, updates, and corrections as they become available.

*Java 8 Pocket Guide* Simon and Schuster

This book is an indispensable reference for developers and administrators who want to maximize the performance of their Sun systems. Revised and updated to cover the latest SPARC and software release (including Solaris 2.6). This book presents a collaboration of configuration and performance information not available anywhere else.

**Troubleshooting Oracle Performance** Simon and Schuster

Summary The Well-Grounded Java Developer offers a fresh and practical look at new Java 7 features, new JVM languages, and the array of supporting technologies you need for the next generation of Java-based software. About the Book The Well-Grounded Java Developer starts with thorough coverage of Java 7 features like try-with-resources and NIO.2. You'll then explore a cross-section of emerging JVM-based languages, including Groovy, Scala, and Clojure. You will find clear examples that are practical and that help you dig into dozens of valuable development techniques showcasing modern approaches to the dev process, concurrency, performance, and much more. Written for readers familiar with Java. No experience with Java 7 or new JVM languages required. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside New Java 7 features Tutorials on Groovy, Scala, and Clojure Discovering multicore processing and concurrency Functional programming with new JVM languages Modern approaches to testing, build, and CI Table of Contents PART 1 DEVELOPING WITH JAVA 7 Introducing Java 7 New I/O PART 2 VITAL TECHNIQUES Dependency Injection Modern concurrency Class files and bytecode Understanding performance tuning PART 3 POLYGLOT PROGRAMMING ON THE JVM Alternative JVM languages Groovy: Java's dynamic friend Scala: powerful and concise Clojure: safer programming PART 4 CRAFTING THE POLYGLOT PROJECT Test-driven development Build and continuous integration Rapid web development Staying well-grounded

**A Project-Driven Guide to Fundamentals in Java** Addison-Wesley Professional

When Lucene first hit the scene five years ago, it was nothing short of amazing. By using this open-source, highly scalable, super-fast search engine, developers could integrate search into applications quickly and efficiently. A lot has changed since then—search has grown from a "nice-to-have" feature into an indispensable part of most enterprise applications. Lucene now powers search in diverse companies including Akamai, Netflix, LinkedIn, Technorati, HotJobs, Epiphany, FedEx, Mayo

Clinic, MIT, New Scientist Magazine, and many others. Some things remain the same, though. Lucene still delivers high-performance search features in a disarmingly easy-to-use API. Due to its vibrant and diverse open-source community of developers and users, Lucene is relentlessly improving, with evolutions to APIs, significant new features such as payloads, and a huge increase (as much as 8x) in indexing speed with Lucene 2.3. And with clear writing, reusable examples, and unmatched advice on best practices, *Lucene in Action, Second Edition* is still the definitive guide to developing with Lucene. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

*Java Performance: The Definitive Guide* Addison-Wesley Professional

Master the art of fast, effective Java development with the power of concurrent and parallel programming. About This Book Get detailed coverage of important recipes on multi-threading and parallel programming. This book takes a close look at the Java 9 APIs and their impact on concurrency. See practical examples on thread safety, high-performance classes, safe sharing, and a whole lot more. Who This Book Is For The book is for Java developers and programmers at an intermediate to advanced level. It will be especially useful for developers who want to take advantage of task-based recipes using Java 9's concurrent API to program thread-safe solutions. What You Will Learn Find out to manage the basic components of the Java Concurrency API. Use synchronization mechanisms to avoid data race conditions and other problems of concurrent applications. Separate the thread management from the rest of the application with the Executor framework. Solve problems using a parallelized version of the divide and conquer paradigm with the Fork / Join framework. Process massive data sets in an optimized way using streams and reactive streams. See which data structures we can use in concurrent applications and how to use them. Practice efficient techniques to test concurrent applications. Get to know tips and tricks to design concurrent applications. In Detail Writing concurrent and parallel programming applications is an integral skill for any Java programmer. Java 9 comes with a host of fantastic features, including significant performance improvements and new APIs. This book will take you through all the new APIs, showing you how to build parallel and multi-threaded applications. The book covers all the elements of the Java Concurrency API, with essential recipes that will help you take advantage of the exciting new capabilities. You will learn how to use parallel and reactive streams to process massive data sets. Next, you will move on to create streams and use all their intermediate and terminal operations to process big collections of data in a parallel and functional way. Further, you'll discover a whole range of recipes for almost everything, such as thread management, synchronization, executors, parallel and reactive streams, and many more. At the end of the book, you will learn how to obtain information about the status of some of the most useful components of the Java Concurrency API and how to test concurrent applications using different tools. Style and approach This recipe-based book will allow you to explore the exciting capabilities of concurrency in Java. After reading this book, you will be able to comfortably build parallel applications in Java 9.

*Web Performance Tuning* Packt Publishing Ltd

Summary Building on the bestselling first edition, *EJB 3 in Action, Second Edition* tackles EJB 3.2 head-on, through numerous code samples, real-life scenarios, and illustrations. This book is a fast-

paced tutorial for Java EE 6 business component development using EJB 3.2, JPA 2, and CDI. Besides covering the basics of EJB 3.2, this book includes in-depth EJB 3.2 internal implementation details, best practices, design patterns, and performance tuning tips. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book The EJB 3 framework provides a standard way to capture business logic in manageable server-side modules, making it easier to write, maintain, and extend Java EE applications. EJB 3.2 provides more enhancements and intelligent defaults and integrates more fully with other Java technologies, such as CDI, to make development even easier. *EJB 3 in Action, Second Edition* is a fast-paced tutorial for Java EE business component developers using EJB 3.2, JPA, and CDI. It tackles EJB head-on through numerous code samples, real-life scenarios, and illustrations. Beyond the basics, this book includes internal implementation details, best practices, design patterns, performance tuning tips, and various means of access including Web Services, REST Services, and WebSockets. Readers need to know Java. No prior experience with EJB or Java EE is assumed. What's Inside Fully revised for EJB 3.2. POJO persistence with JPA 2.1. Dependency injection and bean management with CDI 1.1. Interactive application with WebSocket 1.0. About the Authors Debu Panda, Reza Rahman, Ryan Cuprak, and Michael Remijan are seasoned Java architects, developers, authors, and community leaders. Debu and Reza coauthored the first edition of *EJB 3 in Action*. Table of Contents PART 1 OVERVIEW OF THE EJB LANDSCAPE What's what in EJB 3 A first taste of EJB PART 2 WORKING WITH EJB COMPONENTS Building business logic with session beans Messaging and developing MDBs EJB runtime context, dependency injection, and crosscutting logic Transactions and security Scheduling and timers Exposing EJBs as web services PART 3 USING EJB WITH JPA AND CDI JPA entities Managing entities JPQL Using CDI with EJB 3 PART 4 PUTTING EJB INTO ACTION Packaging EJB 3 applications Using WebSockets with EJB 3 Testing and EJB

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## REVIEW OF JAVA PERFORMANCE TUNING 2ND EDITION

- This book is Excellent! Be sure to read this one! Mike Lew's writing, born of experience, brings forth sharp, intense emotional reactions from men, including myself, who live with the abuses of their boyhood. It will be important for you to have ready access to a psychologist as you read this book. Visit a psychologist, if you don't already have one you are seeing, tell him or her that you'd like their help as you read this book. Take the time, if you can, to find a psychologist who is a specialist, experienced in male sexual abuse. If none is available in your area, get one who is at least experienced in childhood abuse and trauma. Don't try to read the book all at once; it will be too

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