



# Java EE 7 Performance Tuning and Optimization

Boost the efficiency of your enterprise applications by performance tuning and optimization with Java

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# Java Ee 7 Performance Tuning And Optimization Oransa Osama



**Scott Oaks**

## **Java Ee 7 Performance Tuning And Optimization Oransa Osama:**

*Java Ee 7 Performance Tuning and Optimization* Osama Oransa,2014-06-14 The book adopts a step by step approach starting from building the basics and adding to it gradually by using different tools and examples The book sequence is easy to follow and all topics are fully illustrated showing you how to make good use of different performance diagnostic tools If you are an experienced Java developer architect team leader consultant support engineer or anyone else who needs performance tuning in your Java applications and in particular Java enterprise applications this book is for you No prior experience of performance tuning is required [Java EE 7 Development with NetBeans 8](#) David R. Heffelfinger,2015-01-31

The book is aimed at Java developers who wish to develop Java EE applications while taking advantage of NetBeans functionality to automate repetitive tasks Familiarity with NetBeans or Java EE is not assumed **Pro Java EE 5**

**Performance Management and Optimization** Steven Haines,2006-11-22 Pro Java EE 5 Performance Management and Optimization features proven methodology to guarantee top performing Java EE 5 applications and explains how to measure performance in your specific environment The book also details performance integration points throughout the development and deployment lifecycles that are crucial for application success For quality assurance and preproduction stages this book guides you through testing and optimally deploying your Java EE 5 applications with a focus on assessing capacity and discovering saturation points It defines the concept and application of wait based tuning one of the most effective approaches to application server tuning The book also helps you assess and improve the health of your applications upon deployment The topics covered include trending forecasting and capacity assessing and planning When production issues arise you ll be armed with troubleshooting methodology and solutions to common problems that have been observed in real world environments This book even guides you through the creation of a formal Java EE 5 performance management plan customized to your environment to help you interpret and react to changing trends in usage patterns **Java EE 8 High**

**Performance** Romain Manni-Bucau,2018-01-30 Get more control of your applications performances in development and production and know how to meet your Service Level Agreement on critical microservices Key Features Learn how to write a JavaEE application with performance constraints Service Level Agreement SLA leveraging the platform Learn how to identify bottlenecks and hotspots in your application to fix them Ensure that you are able to continuously control your performance in production and during development Book Description The ease with which we write applications has been increasing but with this comes the need to address their performance A balancing act between easily implementing complex applications and keeping their performance optimal is a present day need In this book we explore how to achieve this crucial balance while developing and deploying applications with Java EE 8 The book starts by analyzing various Java EE specifications to identify those potentially affecting performance adversely Then we move on to monitoring techniques that enable us to identify performance bottlenecks and optimize performance metrics Next we look at techniques that help us achieve high

performance memory optimization concurrency multi threading scaling and caching We also look at fault tolerance solutions and the importance of logging Lastly you will learn to benchmark your application and also implement solutions for continuous performance evaluation By the end of the book you will have gained insights into various techniques and solutions that will help create high performance applications in the Java EE 8 environment What you will learn Identify performance bottlenecks in an application Locate application hotspots using performance tools Understand the work done under the hood by EE containers and its impact on performance Identify common patterns to integrate with Java EE applications Implement transparent caching on your applications Extract more information from your applications using Java EE without modifying existing code Ensure constant performance and eliminate regression Who this book is for If you re a Java developer looking to improve the performance of your code or simply wanting to take your skills up to the next level then this book is perfect for you

*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

[JBoss AS 5 Performance Tuning](#) Francesco Marchioni,2010-12-03 Build faster more efficient enterprise Java applications

[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

*WildFly Performance Tuning* Arnold Johansson,Anders Welén,2014-06-25 Packed with practical examples this book looks at a different aspect of performance tuning in each chapter and shows you how to apply them to their existing Java applications Anyone with an

interest in learning more and improving the performance of Java based technology in general all the way to WildFly in particular will find this book useful

**Java Platform Performance** Steve Wilson, Jeff Kesselman, 2000 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

**Java EE 7 Essentials** Arun Gupta, 2013-08-09 Get up to speed on the principal technologies in the Java Platform Enterprise Edition 7 and learn how the latest version embraces HTML5 focuses on higher productivity and provides functionality to meet enterprise demands Written by Arun Gupta a key member of the Java EE team this book provides a chapter by chapter survey of several Java EE 7 specifications including WebSockets Batch Processing RESTful Web Services and Java Message Service You ll also get self paced instructions for building an end to end application with many of the technologies described in the book which will help you understand the design patterns vital to Java EE development Understand the key components of the Java EE platform with easy to understand explanations and extensive code samples Examine all the new components that have been added to Java EE 7 platform such as WebSockets JSON Batch and Concurrency Learn about RESTful Web Services SOAP XML based messaging protocol and Java Message Service Explore Enterprise JavaBeans Contexts and Dependency Injection and the Java Persistence API Discover how different components were updated from Java EE 6 to Java EE 7

**Advanced Tuning for JD Edwards EnterpriseOne Implementations** Michael Jacot, Allen Jacot, Gurbinder Bali, Frank Jordan, Patrick Scott, Kyle Kinder, 2013-07-16 Best Practices for JD Edwards Enterprise One Tuning and Optimization Achieve peak performance from your ERP platform while minimizing downtime and lowering TCO Advanced Tuning for JD Edwards Enterprise One Implementations shows how to plan and adopt a structured top to bottom maintenance methodology Uncover and eliminate bottlenecks maximize efficiency at every component layer troubleshoot databases and web servers automate system testing and handle mobile issues This Oracle Press guide offers complete coverage of the latest cloud clustering load balancing and virtualization solutions Understand the components of a structured tuning plan Establish benchmarks and implement key industry practices Perform changes and accurately measure system wide impact Diagnose and repair HTTP

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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

Enhancing Java EE Applications: Strategies for Performance and Scalability Peter Jones,2025-01-09 Unlock the full potential of your Java EE applications with *Enhancing Java EE Applications Strategies for Performance and Scalability* This essential guide provides comprehensive coverage of techniques and strategies to boost the performance and scalability of your Java EE applications From architectural insights to advanced coding practices each chapter brims with expert advice and practical solutions to help you overcome performance and scalability challenges Learn how to profile and monitor applications to pinpoint bottlenecks optimize Java EE servers effectively interact with databases and implement robust concurrency and multithreading Explore caching strategies fine tune application code and master network communications within a Java EE context Additionally discover how to manage memory efficiently and deploy resources wisely to ensure maximum stability and performance Whether you re a software developer IT architect or system administrator this book empowers you to make performance driven decisions that can significantly impact the success of your enterprise applications Dive into *Enhancing Java EE Applications Strategies for Performance and Scalability* and elevate your Java EE skills ensuring your applications are efficient scalable and poised to meet the demands of your business

**Java EE 7 Development with WildFly** Michal Cmil,2014-12-29 If you are a Java developer who wants to learn about Java EE this is the book for you It s also ideal for developers who already have experience with the Java EE platform but would like to learn more about the new Java EE 7 features by analyzing fully functional sample applications using the new application server WildFly

*Java Performance* Charlie Hunt,Binu John,2011-10-04 The definitive master class in performance tuning Java applications if you love all the gory details this is the book for you James Gosling creator of the Java

Programming Language Improvements in the Java platform and new multicore multiprocessor hardware have made it possible to dramatically improve the performance and scalability of Java software. Java™ Performance covers the latest Oracle and third party tools for monitoring and measuring performance on a wide variety of hardware architectures and operating systems. The authors present dozens of tips and tricks you'll find nowhere else. You'll learn how to construct experiments that identify opportunities for optimization, interpret the results, and take effective action. You'll also find powerful insights into microbenchmarking, including how to avoid common mistakes that can mislead you into writing poorly performing software. Then building on this foundation, you'll walk through optimizing the Java HotSpot VM standard and multitiered applications, Web applications, and more. Coverage includes: Taking a proactive approach to meeting application performance and scalability goals; Monitoring Java performance at the OS level in Windows, Linux, and Oracle Solaris environments; Using modern Java Virtual Machine (JVM) and OS observability tools to profile running systems with almost no performance penalty; Gaining under-the-hood knowledge of the Java HotSpot VM that can help you address most Java performance issues; Integrating JVM level and application monitoring; Mastering Java method and heap memory profiling; Tuning the Java HotSpot VM for startup, memory footprint, response time, and latency; Determining when Java applications require rework to meet performance goals; Systematically profiling and tuning performance in both Java SE and Java EE applications; Optimizing the performance of the Java HotSpot VM. Using this book, you can squeeze maximum performance and value from all your Java applications, no matter how complex they are, what platforms they're running on, or how long you've been running them.

**A Study in Performance Optimization for Java 2, Enterprise Edition Applications** David Kjerrumgaard, 2002

**Optimizing Java** Benjamin J. Evans, James Gough, Chris Newland, 2018-04-17

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.

**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 will 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.

Mastering JBoss Enterprise Application Platform 7 Francesco Marchioni, Luigi Fugaro, 2016. Create modular, scalable, enterprise-grade applications with JBoss Enterprise Application Platform 7. About This Book: Leverage the power of JBoss EAP 7 along with Java EE 7 to create professional enterprise-grade applications. Get your applications cloud-ready and make them highly scalable using this advanced guide. Become a pro Java Developer and move ahead of the crowd with this advanced practical guide. Who This Book Is For: The ideal target audience for this book is Java System Administrators who already have some experience with JBoss EAP and who now want to explore in depth creating Enterprise-grade apps with the latest JBoss EAP version. What You Will Learn: Configure services using the Command Line Interface. Deliver fault-tolerant server configurations. Harden the application server with advanced techniques. Expand the application server's horizon with tools such as Docker and OpenShift. Create enterprise-ready configurations using clustering techniques. Deliver advanced security solutions and learn how to troubleshoot common network performance issues. In Detail: The JBoss Enterprise Application Platform (EAP) has been one of the most popular tools for Java developers to create modular, cloud-ready, and modern applications. It has achieved a reputation for architectural excellence and technical savvy, making it a solid and efficient environment for delivering your applications. The book will first introduce application server configuration and the management instruments that can be used to control the application server. Next, the focus will shift to enterprise solutions such as clustering, load balancing, and data caching; this will be the core of the book. We will also discuss services provided by the application server such as database connectivity and logging. We focus on real-world example configurations and how to avoid common mistakes. Finally, we will implement the knowledge gained so far in terms of Docker containers and cloud availability using Red Hat's OpenShift. Style and approach: If you are a Java developer who wants to level up to modern-day Java web development with the latest Java EE 7 and JBoss EAP 7, this book is the ideal solution for you. It addresses in a clear and simple way proof-of-concept scenarios such as clustering and cloud and container configurations and explains how to solve common issues.

**Java EE 7 Development With Netbeans 8** David R. Heffelfinger, 2015-01-31. The book is aimed at Java developers who wish to develop Java EE applications while taking advantage of NetBeans functionality to automate

repetitive tasks Familiarity with NetBeans or Java EE is not assumed

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