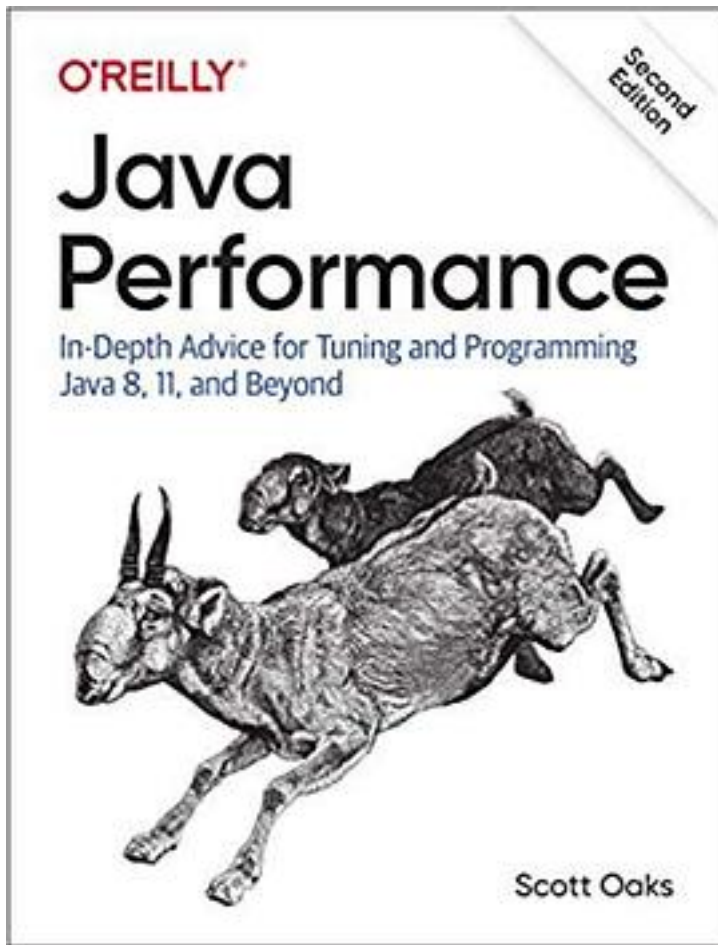# Java Performance: In-Depth Advice for Tuning and Programming Java 8, 11, and Beyond

[Java Performance: In-Depth Advice for Tuning and Programming Java 8, 11, and Beyond_下载链接1_](#)

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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

作者介绍:

Scott Oaks is an architect at Oracle Corporation, where he works on the performance of Oracle's middleware software. Prior to joining Oracle, he worked for years at Sun Microsystems, specializing in many disparate technologies from the SunOS kernel to network programming and RPCs to windows systems and the OPEN LOOK Virtual Window Manager. In 1996, Scott became a Java evangelist for Sun and in 2001 joined their Java Performance group--which has been his primary focus ever since. Scott also authored O'Reilly's Java Security, Java Threads, JXTA in a Nutshell, and Jini in a Nutshell titles.

目录:

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标签

性能

jvm

软件工程

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评论

java性能权威指南的第二版，增加了对graal编译器的介绍，Shenandoah gc，epsilon gc和zgc的简单介绍，比较全面讨论了compact string和g1的string dedup，cds简单介绍。总的来说新增的内容挺少的，新增内容大部分比较浅...

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书评

市面上介绍Java的书有很多，但专注于Java性能的并不多，能游刃有余地展示Java性能优化难点的更是凤毛麟角，本书即是其中之一。通过使用JVM和Java平台，以及Java语言和应用程序接口，本书详尽讲解了Java性能调优的相关知识，帮助读者深入理解Java平台性能的各个方面，最终使程序...

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