



Java Performance Companion

By Charlie Hunt, Monica Beckwith, Poonam Parhar, Bengt Rutisson

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Java Performance Companion By Charlie Hunt, Monica Beckwith, Poonam Parhar, Bengt Rutisson

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.

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Editorial Review

About the Author

Charlie Hunt, is a JVM Performance Engineer at Oracle where he works on the performance of Java SE, Java EE, Java HotSpot VM, and Java SE class libraries. He presents on Java performance at various events, including JavaOne, QCon, Velocity, and Dreamforce, and he coauthored *Java Performance* (Addison-Wesley, 2012).

Monica Beckwith is an independent performance consultant optimizing customer applications for server class systems running the Java Virtual Machine. She has worked with Java HotSpot VM optimizing the JIT Compiler, the generated code, the JVM heuristics and garbage collection and collectors. Monica led Oracle's Garbage First Garbage Collector performance team and was named a JavaOne Rock Star.

Poonam Parhar is a JVM Sustaining Engineer at Oracle, where her primary responsibility is to resolve customer-escalated problems against Oracle JRockit and Java HotSpot VMs. She loves debugging and troubleshooting problems, and is always focused on improving the serviceability and supportability of the JVM.

Bengt Rutisson is a JVM Engineer at Oracle, working in the HotSpot VM team. He has worked on garbage collections in JVMs for the past ten years, first with the Oracle JRockit VM and the last six years with the Java HotSpot VM. Bengt is an active participant in the OpenJDK project, with many contributions of features, stability fixes and performance enhancements.

Users Review

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Melvin Groth:

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