

## Java-Performance-Tuning

1. Course Overview	1m 35s
1.1 Course Overview	1m 35s
2. Understanding Your Performance Characteristics	50m 45s
2.1 Introduction to Performance Tuning	4m 15s
2.2 Performance and Computer Hardware	4m 53s
2.3 System Performance Metrics	3m 34s
2.4 Performance Testing Tools - OS	7m 20s
2.5 Application Performance Metrics	3m 57s
2.6 Measuring Application Performance	6m 55s
2.7 Performance Testing Tools - Java	12m 1s
2.8 Performance Testing Tools - JMeter	7m 46s
3. Profiling Java Applications	26m 41s
3.1 Java Profiler Intro	52s
3.2 How Profilers Work	6m 3s
3.3 Java Profiler Software	3m 32s
3.4 Setting up a Flight Recording	4m 4s
3.5 Setting up a Flight Recording - Demo	1m 49s
3.6 Using Java Flight Recorder	10m 19s
4. Tuning the JVM :	31m 29s
4.1 JIT Intro	2m 28s
4.2 JIT Compilation Modes	4m 20s
4.3 JIT Tuning	5m 21s
4.4 GC Intro	3m 33s
4.5 Choosing a GC	4m 44s
4.6 Measuring GC Performance	3m 18s
4.7 Demo	2m 23s
4.8 GC Tuning	5m 18s
5. Search and Data Structures:	14m 37s
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5.2 Java Data Structures	5m 14s
5.3 Setting the ArrayList initial capacity	2m 13s
5.4 Optimizing HashMaps	3m 52s
6. Saving Memory:	20m 26s
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6.2 Reducing Object Size	4m 30s
6.3 Avoid Creating Unnecessary Objects	5m 0s
6.4 Managing Strings	5m 18s
6.5 Avoid Keeping Objects Around for Longer Than Needed	1m 53s
7. Optimizing Concurrent Code	25m 37s
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7.4 Reducing Lock Contention	6m 41s
7.5 Atomic Variables and Concurrent Collections	4m 53s
7.6 Avoiding Synchronization	3m 13s

8. Avoid Doing Expensive Things	14m 35s
8.1 Review of Java Performance Optimization	5m 51s
8.2 Caching	5m 2s
8.3 Architecture Level Performance Optimizations	3m 41s