


# Clojure High Performance Programming

*By Shantanu Kumar*

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**Clojure High Performance Programming** By Shantanu Kumar

Written for intermediate Clojure developers, this compact guide will raise your expertise several notches. It tackles all the fundamentals of analyzing and optimizing performance in clear, logical chapters.

**Overview**

- See how the hardware and the JVM impact performance
- Learn which Java features to use with Clojure, and how
- Deep dive into Clojure's concurrency and state primitives
- Discover how to design Clojure programs for performance

**In Detail**

Clojure is a young, dynamic, functional programming language that runs on the Java Virtual Machine. It is built with performance, pragmatism, and simplicity in mind. Like most general purpose languages, Clojure’s features have different performance characteristics that one should know in order to write high performance code.

Clojure High Performance Programming is a practical, to-the-point guide that shows you how to evaluate the performance implications of different Clojure abstractions, learn about their underpinnings, and apply the right approach for optimum performance in real-world programs.

This book discusses the Clojure language in the light of performance factors that you can exploit in your own code.

You will also learn about hardware and JVM internals that also impact Clojure’s performance. Key features include performance vocabulary, performance analysis, optimization techniques, and how to apply these to your programs. You will also find detailed information on Clojure's concurrency, state-management, and parallelization primitives.

This book is your key to writing high performance Clojure code using the right abstraction, in the right place, using the right technique.

**What you will learn from this book**

- Learn techniques for achieving numerical performance in Clojure
- Use Java features in Clojure code for performance
- Avoid reflection and boxing with type hints
- Analyze latency using the Criterium library
- Understand Clojure's concurrency and state-management primitives in depth
- Explore how to design Clojure applications for better performance

**Approach**

This is a short, practical guide that will teach you everything you need to know to start writing high performance Clojure code.

**Who this book is written for**

This book is ideal for intermediate Clojure developers who are looking to get a good grip on how to achieve optimum performance. You should already have some experience with Clojure and it would help if you already know a little bit of Java. Knowledge of performance analysis and engineering is not required. For hands-on practice, you should have access to Clojure REPL with Leiningen.

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## Editorial Review

About the Author

**Shantanu Kumar**

Shantanu Kumar is a software developer living in Bangalore, India, with his wife. He started learning programing in 1991, using BASIC on MS DOS when he was at school. There, he developed a keen interest in the x86 hardware and assembly language, and he dabbled in it for a good while. Later, he programmed professionally in various business domains and technologies while working with the Indian Air Force and several IT companies.

In recent years, Shantanu has worked on high performance and distributed systems. Having used Java for a long time, he discovered Clojure in early 2009 and has been a fan ever since. Clojure's pragmatism and fine-grained orthogonality continues to amaze him, and he believes he is a better developer because of this.

When not busy with programming or reading up on technical subjects, he enjoys reading non-fiction, riding his bike, and occasionally just lazing in his free time. Shantanu is an active participant in the Bangalore Clojure users group and develops several open source Clojure projects on GitHub.

## Users Review

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**Jenny Dill:**

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