



Julia High performance

Avik Sengupta

Download now

Read Online 

[Click here](#) if your download doesn't start automatically

Julia High performance

Avik Sengupta

Julia High performance Avik Sengupta

Key Features

- Learn to code high reliability and high performance programs
- Stand out from the crowd by developing code that runs faster than your peers' codes
- This book is intended for developers who are interested in high performance technical programming.

Book Description

Julia is a high performance, high-level dynamic language designed to address the requirements of high-level numerical and scientific computing. Julia brings solutions to the complexities faced by developers while developing elegant and high performing code.

Julia High Performance will take you on a journey to understand the performance characteristics of your Julia programs, and enables you to utilize the promise of near C levels of performance in Julia.

You will learn to analyze and measure the performance of Julia code, understand how to avoid bottlenecks, and design your program for the highest possible performance. In this book, you will also see how Julia uses type information to achieve its performance goals, and how to use multiple dispatch to help the compiler to emit high performance machine code. Numbers and their arrays are obviously the key structures in scientific computing – you will see how Julia's design makes them fast. The last chapter will give you a taste of Julia's distributed computing capabilities.

What you will learn

- Discover the secrets behind Julia's speed
- Get a sense of the possibilities and limitations of Julia's performance
- Analyze the performance of Julia programs
- Measure the time and memory taken by Julia programs
- Create fast machine code using Julia's type information
- Define and call functions without compromising Julia's performance
- Understand number types in Julia
- Use Julia arrays to write high performance code
- Get an overview of Julia's distributed computing capabilities

About the Author

Avik Sengupta has worked on risk and trading systems in investment banking for many years, mostly using Java interspersed with snippets of the exotic R and K languages. This experience left him wondering whether there were better things out there. Avik's quest came to a happy conclusion with the appearance of Julia in 2012. He has been happily coding in Julia and contributing to it ever since.

Table of Contents

1. Julia is Fast

2. Analyzing Julia Performance
3. Types in Julia
4. Functions and Macros – Structuring Julia Code for High Performance
5. Fast Numbers
6. Fast Arrays
7. Beyond the Single Processor

 [Download Julia High performance ...pdf](#)

 [Read Online Julia High performance ...pdf](#)

Download and Read Free Online Julia High performance Avik Sengupta

Download and Read Free Online Julia High performance Avik Sengupta

From reader reviews:

Tracie Berry:

Do you have favorite book? When you have, what is your favorite's book? Reserve is very important thing for us to know everything in the world. Each publication has different aim or maybe goal; it means that book has different type. Some people really feel enjoy to spend their time for you to read a book. They are really reading whatever they consider because their hobby will be reading a book. What about the person who don't like reading through a book? Sometime, man feel need book once they found difficult problem or exercise. Well, probably you will need this Julia High performance.

Daniel Young:

In other case, little folks like to read book Julia High performance. You can choose the best book if you appreciate reading a book. So long as we know about how is important a book Julia High performance. You can add know-how and of course you can around the world with a book. Absolutely right, due to the fact from book you can learn everything! From your country until eventually foreign or abroad you will be known. About simple matter until wonderful thing you may know that. In this era, we can open a book or searching by internet system. It is called e-book. You should use it when you feel fed up to go to the library. Let's go through.

Lauren Clarke:

Is it an individual who having spare time after that spend it whole day simply by watching television programs or just laying on the bed? Do you need something totally new? This Julia High performance can be the answer, oh how comes? A book you know. You are thus out of date, spending your spare time by reading in this brand-new era is common not a nerd activity. So what these ebooks have than the others?

Gary Games:

A lot of people said that they feel weary when they reading a e-book. They are directly felt this when they get a half areas of the book. You can choose the particular book Julia High performance to make your personal reading is interesting. Your own personal skill of reading expertise is developing when you including reading. Try to choose easy book to make you enjoy you just read it and mingle the idea about book and reading especially. It is to be very first opinion for you to like to start a book and go through it. Beside that the reserve Julia High performance can to be your brand new friend when you're feel alone and confuse with the information must you're doing of this time.

**Download and Read Online Julia High performance Avik Sengupta
#ZKHOLASP4WB**

Read Julia High performance by Avik Sengupta for online ebook

Julia High performance by Avik Sengupta Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Julia High performance by Avik Sengupta books to read online.

Online Julia High performance by Avik Sengupta ebook PDF download

Julia High performance by Avik Sengupta Doc

Julia High performance by Avik Sengupta Mobipocket

Julia High performance by Avik Sengupta EPub

Julia High performance by Avik Sengupta Ebook online

Julia High performance by Avik Sengupta Ebook PDF