

# Java Concurrency In Practice Brian Goetz

Program Agenda e00defb090 Pattern Matching and Sealed Types e00defb090 Observer Effect e00defb090 Banking Example e00defb090 Lots more in the pipeline e00defb090 Philly ETE 2016 #35 - From Concurrent to Parallel - Brian Goetz - Philly ETE 2016 #35 - From Concurrent to Parallel - Brian Goetz 1 hour - \"From **Concurrent**, to Parallel: Understanding Parallel Stream Performance in **Java**, SE 8\" As core counts continue to increase, how ... e00defb090 Example e00defb090 From Concurrent to Parallel - From Concurrent to Parallel 51 minutes - Brian Goetz, explores the different goals, tools, and techniques involved between **concurrency**, and parallelism approaches, and ... e00defb090 Loops e00defb090 Text Blocks (JDK 13) e00defb090 Records (Coming soon) e00defb090 Priority e00defb090 Values and Generics e00defb090 Get and Join e00defb090 What it feels like I do e00defb090 Encounter Order e00defb090 Java Concurrency, A(nother) Peek Under the Hood - Java Concurrency, A(nother) Peek Under the Hood 53 minutes - <https://developer.oracle.com/> e00defb090 Concurrency e00defb090 Subtitles and closed captions e00defb090 Solving CPU-Bound vs. IO-Bound Issues e00defb090 Merging a set in parallel e00defb090 Stewardship e00defb090 Toolbox: Threads, CompletableFuture, and Virtual Threads e00defb090 Fork-Join e00defb090 Java Concurrency In Practice By Brian Goetz | PART 1 | Weekly Tech Book 2 - Java Concurrency In Practice By Brian Goetz | PART 1 | Weekly Tech Book 2 6 minutes, 55 seconds - LINKS BELOW Weekly Tech Book Overview \u0026 Review. The reason its only half is because I only got through half of the book this ... e00defb090 Tasks and Thread Pools e00defb090 Brian Goetz - Stewardship: the Sobering Parts - Brian Goetz - Stewardship: the Sobering Parts 1 hour, 3 minutes - Programming language design is not just about type theory and grammars. For evolving a mature programming language like ... e00defb090 Hardware Evolution e00defb090 Q\u0026A: Sharding Load \u0026 Handling Retries e00defb090 About Ken e00defb090 Introduction e00defb090 Compiler Barriers GCC e00defb090 Basic Terms e00defb090 Results: Performance Side-by-Side e00defb090 Culprit #1 e00defb090 Out of Order Execution e00defb090 Sequential Parallel Tests e00defb090 From Concurrent to Parallel - From Concurrent to Parallel 50 minutes - He is the author of the best-selling book \"**Java Concurrency in Practice**,\" and is a frequent presenter at major industry conferences. e00defb090 The NQ Model e00defb090 Java Concurrency Essentials by Bogdan Komar - Java Concurrency Essentials by Bogdan Komar 51 minutes - The speech intended to cover basic **concurrency**, theory. During the meeting we will touch the **Java concurrency**, concepts. We will ... e00defb090 Introduction e00defb090 Communication between processes e00defb090 Functional Programming (JDK 8) e00defb090 Spherical Videos e00defb090 Intro e00defb090 Source Splitting e00defb090 Exploiting Parallelism e00defb090 Parallel Streams, CompletableFuture, and All That: Concurrency in Java 8 - Parallel Streams, CompletableFuture, and All That: Concurrency in Java 8 48 minutes - Kenneth Kousen, President, Kousen IT, Inc. The **Java**, 8 (and 9) standard library includes multiple techniques for taking advantage ... e00defb090 How Much Change? e00defb090 Sealed Types (Coming soon) e00defb090 What people think I do (academic version) e00defb090 Fork/Join (JDK 7) e00defb090 Concurrency. Through The Ages e00defb090 Demonstration e00defb090 Visibility e00defb090 Keeping our promises e00defb090 Future e00defb090 Brian Goetz on Java Language Futures: 2019 Edition - Brian Goetz on Java Language Futures: 2019 Edition 44 minutes - He is the author of **Java Concurrency in Practice**, (<http://amzn.to/2nzZnkl>) and over 75 articles about Java development. In this ... e00defb090 Terminology e00defb090 Concurrency e00defb090 Multithreaded Control e00defb090 Overload e00defb090 Does this work e00defb090 Code Examples e00defb090 Performance Considerations e00defb090 Using Concurrent e00defb090 Locality e00defb090 Concurrency Concepts in Java by Douglas Hawkins - Concurrency Concepts in Java by Douglas Hawkins 44 minutes - Unlike earlier languages, **Java**, had a well-defined threading and memory model from the beginning. And over the years, **Java**, ... e00defb090 Bad Habits e00defb090 Splitting e00defb090 Definitions e00defb090 Encounter Order e00defb090 Synchronized e00defb090 Javutil Concurrent e00defb090 Java: The Next 20 Years - Java: The Next 20 Years 22 minutes - The **Java**, platform is 20 years old this year! What can we expect from **Java**, over the next 20? **Java**, Language Architect **Brian Goetz**, ... e00defb090 Methods e00defb090 Change Threads e00defb090 Shared State e00defb090 Tangent 2: HSDIS (HotSpot Disassembler) e00defb090 JMM Specification e00defb090 Program Order e00defb090 Search filters e00defb090 Async e00defb090 Synchronization e00defb090 Factory Methods e00defb090 Summary e00defb090 Batch Processing e00defb090 volatile !-atomic e00defb090 Java Concurrency from the Trenches: Lessons Learned in the Wild - Java Concurrency from the Trenches: Lessons Learned in the Wild 50 minutes - Can your **Java**, application handle 270000 requests per second without crashing? Hugo Marques, a Software Engineer at Netflix, ... e00defb090 Switch Expressions (JDK 12) e00defb090 Safari Books e00defb090 atomic increment e00defb090 Evolution and Programming Languages e00defb090 What people think I do (naive version) e00defb090 Doug Lea e00defb090 Pragmatism e00defb090 Atomicity e00defb090 ForkJoin e00defb090 As Java approaches middle age... e00defb090 CPU Differences e00defb090 Runnable and Threat e00defb090 Long Value e00defb090 Lock Corsa e00defb090 Local Variable Type Inference (JDK 10) e00defb090 WaitNotify e00defb090 Merging e00defb090 Introduction e00defb090 Recommendations e00defb090 Monitor e00defb090 Introduction: Why \"The Trenches\"? e00defb090 Java e00defb090 Pattern matching (Coming in phases) e00defb090 Exploitable Parallelism e00defb090 Supply Async e00defb090 happened before e00defb090 happened-before e00defb090 64-bit updates are not guaranteed atomic e00defb090 Project Amber e00defb090 Memory Ordering e00defb090 When is Parallel Worth Doing e00defb090 Hardware Context e00defb090 Putting It Together e00defb090 Intro e00defb090 VerHandles e00defb090 First, do no harm e00defb090 Example e00defb090 A question for you e00defb090 The First Mistake: Parallel Stream Greed e00defb090 Hardware Trends Drive Software Trends e00defb090 Want To Get Involved? e00defb090 Summing an array in parallel e00defb090 About Bogdan Komar e00defb090 Protecting Dependencies: Rate Limiters \u0026 Semaphores e00defb090 Web Server e00defb090 Parallel and Sequential e00defb090 Motivation e00defb090 Simplifying the Solution: Bounded Executors e00defb090

Value Types e00defb090 Overloads e00defb090 Pattern Matching and Records e00defb090 COBOL e00defb090 Brian Gets e00defb090 Simple Made Easy e00defb090 New Release Cadence e00defb090 Shared Sum e00defb090 CompletableFuture e00defb090 Virtual Threads \u0026 The \"Pinning Problem\" e00defb090 Race Conditions e00defb090 Use Cases - Lots More e00defb090 Safe Points e00defb090 Data Layout e00defb090 Var Handles e00defb090 Intro e00defb090 Streams e00defb090 Synchronization Actions e00defb090 Race Condition and Critical Section e00defb090 Java 21 By Brian Goetz - Java 21 By Brian Goetz 48 minutes - BRIAN GOETZ Brian Goetz, is the **Java**, Language Architect at Oracle and was the specification lead for JSR-335 (Lambda ... e00defb090 Tangent 1: Special Relativity e00defb090 Java Concurrency in Practice - Java Concurrency in Practice 21 seconds e00defb090 Nominal Function Types e00defb090 ARM Assembly Crash Course e00defb090 The Scale: 270K RPS and IO-Bound Problems e00defb090 Banking Version 6 e00defb090 Leslie Lamport e00defb090 Evolution With Compatibility e00defb090 Dude, Where's My Cores? e00defb090 Parallel Decomposition e00defb090 Extra Credit e00defb090 Towards Parallel Computation e00defb090 Intro e00defb090 Java Memory Model (JMM) e00defb090 Memory Barriers Types e00defb090 Process Threat e00defb090 Key Takeaways for Senior Engineers e00defb090 Avoiding Heisenbugs e00defb090 General e00defb090 Playback e00defb090 Parallelism is a lost cause e00defb090 First Out of Memory: Chaining Async Tasks e00defb090 Combined Methods e00defb090 Part of a Pipeline e00defb090 Dynamic Decomposition e00defb090 Combining Results e00defb090 Summary e00defb090 Divide And Conquer e00defb090 Atomic e00defb090 Partitioning e00defb090 Locality e00defb090 Banking Version 2 e00defb090 Fork Join Pool e00defb090 Busy Waiting e00defb090 Parallel Stream Performance e00defb090 Keyboard shortcuts e00defb090 Volatile e00defb090 Modern Java Recipes e00defb090 Preview Features e00defb090 Threat Life Cycle e00defb090 The Central Park Effect e00defb090 Wait quiescence e00defb090 Introduction e00defb090 Evolution and Programming Languages e00defb090

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