

WRITING HIGH-PERFORMANCE .NET CODE



2ND
EDITION

RON WATSON

Writing High Performance Net Code By Watson Ben 2014 Paperback

Antonio Esposito

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Writing High-Performance .NET Code, 2nd Edition Ben Watson, 2018-04-16 Take performance to the next level This book does not just teach you how the CLR works it teaches you exactly what you need to do now to obtain the best performance today It will expertly guide you through the nuts and bolts of extreme performance optimization in .NET complete with in depth examinations of CLR functionality free tool recommendations and tutorials useful anecdotes and step by step guides to measure and improve performance This second edition incorporates the advances and improvements in .NET over the last few years as well as greatly expanded coverage of tools more topics more tutorials more tips and improvements throughout the entire book New in the 2nd Edition 50% increase in content New examples code samples and diagrams throughout entire book More ways to analyze the heap and find memory problems More tool coverage including expanded usage of Visual Studio More benchmarking New GC configuration options Code warmup techniques New .NET features such as ref returns value tuples SIMD and more More detailed analysis of LINQ Tips for high level feature areas such as ASP.NET ADO.NET and WPF Also find expanded coverage and discover new tips and tricks for Profiling with multiple tools to quickly find problem areas Detailed description of the garbage collector how to optimize your code for it and how to diagnose difficult memory related issues How to analyze JIT and diagnose warmup problems Effective use of the Task Parallel Library to maximize throughput Which .NET features and APIs to use and which to avoid Instrument your program with performance counters and ETW events Use the latest and greatest .NET features Build a performance minded team and so much more

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Memory Management Konrad Kokosa, 2018-11-12 Understand .NET memory management internal workings pitfalls and techniques in order to effectively avoid a wide range of performance and scalability problems in your software Despite automatic memory management in .NET there are many advantages to be found in understanding how .NET memory works and how you can best write software that interacts with it efficiently and effectively Pro .NET Memory Management is your comprehensive guide to writing better software by understanding and working with memory management in .NET Thoroughly vetted by the .NET Team at Microsoft this book contains 25 valuable troubleshooting scenarios designed to help diagnose challenging memory problems Readers will also benefit from a multitude of .NET memory management rules to live by that introduce methods for writing memory aware code and the means for avoiding common destructive pitfalls What You'll Learn Understand the theoretical underpinnings of automatic memory management Take a deep dive into every aspect of .NET memory management including detailed coverage of garbage collection GC implementation that would otherwise take years of experience to acquire Get practical advice on how this knowledge can be applied in real world software development Use practical knowledge of tools related to .NET memory management to diagnose various memory related issues Explore various aspects of advanced memory management including use of Span and Memory types Who This Book Is For .NET developers solution architects and performance engineers

Writing High-Performance .Net Code Ben Watson, 2014-07-23 Do you

want your .NET code to have the absolute best performance it can. This book demystifies the CLR, teaching you how and why to write code with optimum performance. Learn critical lessons from a person who helped design and build one of the largest high performance .NET systems in the world. This book does not just teach you how the CLR works; it teaches you exactly what you need to do now to obtain the best performance today. It will expertly guide you through the nuts and bolts of extreme performance optimization in .NET, complete with in-depth examinations of CLR functionality, free tool recommendations and tutorials, useful anecdotes, and step-by-step guides to measure and improve performance. Among the topics you will learn are:

- How to Choose what to measure and why.
- Use many amazing tools freely available to solve problems quickly.
- Understand the .NET garbage collector and its effect on your application.
- Use effective coding patterns that lead to optimal garbage collection performance.
- Diagnose common GC related issues.
- Reduce costs of JITting.
- Use multiple threads sanely and effectively, avoiding synchronization problems.
- Know which .NET features and APIs to use and which to avoid.
- Use code generation to avoid performance problems.
- Measure everything and expose hidden performance issues.
- Instrument your program with performance counters and ETW events.
- Use the latest and greatest .NET features.
- Ensure your code can run on mobile devices without problems.
- Build a performance minded team and much more.

Writing High-Performance .NET Code

Ben Watson, 2014

Do you want your .NET code to have the absolute best performance it can? This book demystifies the CLR, teaching you how and why to write code with optimum performance. Learn critical lessons from a person who helped design and build one of the largest high performance .NET systems in the world. This book does not just teach you how the CLR works; it teaches you exactly what you need to do now to obtain the best performance today. It will expertly guide you through the nuts and bolts of extreme performance optimization in .NET, complete with in-depth examinations of CLR functionality, free tool recommendations and tutorials, useful anecdotes, and step-by-step guides to measure and improve performance. Among the topics you will learn are:

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High-Performance Programming in C# and .NET Jason Alls, 2022-07-29

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with best practices and techniques for improving the scalability of distributed systems Book Description Writing high performance code while building an application is crucial and over the years Microsoft has focused on delivering various performance related improvements within the .NET ecosystem This book will help you understand the aspects involved in designing responsive resilient and high performance applications with the new version of C and .NET You will start by understanding the foundation of high performance code and the latest performance related improvements in C 10 0 and .NET 6 Next you ll learn how to use tracing and diagnostics to track down performance issues and the cause of memory leaks The chapters that follow then show you how to enhance the performance of your networked applications and various ways to improve directory tasks file tasks and more Later you ll go on to improve data querying performance and write responsive user interfaces You ll also discover how you can use cloud providers such as Microsoft Azure to build scalable distributed solutions Finally you ll explore various ways to process code synchronously asynchronously and in parallel to reduce the time it takes to process a series of tasks By the end of this C programming book you ll have the confidence you need to build highly resilient high performance applications that meet your customer s demands What you will learn Use correct types and collections to enhance application performance Profile benchmark and identify performance issues with the codebase Explore how to best perform queries on LINQ to improve an application s performance Effectively utilize a number of CPUs and cores through asynchronous programming Build responsive user interfaces with WinForms WPF MAUI and WinUI Benchmark ADO .NET Entity Framework Core and Dapper for data access Implement CQRS and event sourcing and build and deploy microservices Who this book is for This book is for software engineers professional software developers performance engineers and application profilers looking to improve the speed of their code or take their skills to the next level to gain a competitive advantage You should be a proficient C programmer who can already put the language to good use and is also comfortable using Microsoft Visual Studio 2022

C# 7 and .NET Core 2.0 High Performance

Ovais Mehboob Ahmed Khan, 2018-04-25 Improve the speed of your code and optimize the performance of your apps Key Features Understand the common performance pitfalls and improve your application s performance Get to grips with multi threaded and asynchronous programming in C Develop highly performant applications on .NET Core using microservice architecture Book Description While writing an application performance is paramount Performance tuning for realworld applications often involves activities geared toward finding bottlenecks however this cannot solve the dreaded problem of slower code If you want to improve the speed of your code and optimize an application s performance then this book is for you C 7 and .NET Core 2 0 High Performance begins with an introduction to the new features of what explaining how they help in improving an application s performance Learn to identify the bottlenecks in writing programs and highlight common performance pitfalls and learn strategies to detect and resolve these issues early You will explore multithreading and asynchronous programming with .NET Core and learn the importance and efficient use of data structures This is followed with memory management

techniques and design guidelines to increase an application's performance. Gradually the book will show you the importance of microservices architecture for building highly performant applications and implementing resiliency and security in .NET Core. After reading this book you will learn how to structure and build scalable, optimized and robust applications in C# 7 and .NET. What you will learn: Measure application performance using BenchmarkDotNet. Explore the techniques to write multithreaded applications. Leverage TPL and PLinq libraries to perform asynchronous operations. Get familiar with data structures to write optimized code. Understand design techniques to increase your application's performance. Learn about memory management techniques in .NET Core. Develop a containerized application based on microservices architecture. Learn tools and techniques to monitor application performance. Who is this book for? This book is for .NET developers looking at improving the speed of their code or simply wanting to take their skills to the next level. Basic C# knowledge is assumed.

High-Performance C# and .NET Nicholson N, Ramsey, 2025-10-12. Master the art of building fast, efficient and scalable .NET applications that thrive under real world enterprise workloads. Learn how to diagnose bottlenecks, exploit concurrency and design systems that perform flawlessly at scale. High Performance C# and .NET is a hands-on, deeply practical guide to writing software that runs faster, scales better and consumes fewer resources. It bridges the gap between theory and production, teaching developers how to think like performance engineers, profiling systems, interpreting metrics and applying targeted optimizations with confidence. The book covers every layer of the modern .NET performance stack, from algorithmic efficiency and garbage collection tuning to asynchronous programming, multithreading and low-level memory control. Each chapter builds on real world examples that mirror enterprise challenges, helping readers move beyond superficial tweaks to systemic, sustainable performance improvements. Whether you're building high-throughput APIs, real-time analytics engines or distributed microservices, this book equips you with a proven methodology for profiling, diagnosing and resolving performance issues, transforming code that merely works into code that excels. Key Features: Comprehensive performance profiling. Learn to use BenchmarkDotNet, dotTrace, PerfView and .NET diagnostic tools effectively. Concurrency and async mastery. Write non-blocking, parallel code that scales across modern multicore architectures. System level insights. Understand how garbage collection, JIT compilation and memory layout impact real world performance. Production grade optimization. Integrate load testing, observability and continuous performance checks into your CI/CD pipelines. Future proof engineering. Apply architectural and coding principles that sustain high performance across evolving .NET versions. Written by a seasoned .NET performance engineer and software architect, this book distills years of experience optimizing enterprise scale systems into a clear, actionable framework for professionals who demand more from their code. If you're ready to elevate your .NET development skills and build software that delivers uncompromising speed, reliability and scalability, High Performance C# and .NET is your essential guide. Start optimizing today!

Modern .NET Mastery Gideon Beckner, 2025-09-26. Modern .NET Mastery: Build High Performance Applications, Scalable APIs and Cloud Ready Solutions.

with C and .NET is your definitive guide to mastering the latest version of Microsoft's powerful development platform. Designed for developers who want to push beyond the basics, this book takes you deep into the practices, patterns, and tools needed to create modern applications that are fast, resilient, and ready for production at scale. From architecting clean solutions to optimizing performance and harnessing the cloud, this book walks you through real-world strategies that make the difference between good software and great software. You'll learn how to design APIs that scale, reliably build secure and distributed applications, implement microservices and containerization, and adopt proven practices for observability, monitoring, and continuous delivery. Along the way, practical code examples and real-world case studies ensure that every concept translates directly into your daily work. What makes this book stand out is its focus on the full lifecycle of modern .NET applications, from writing clean, testable code to deploying high-availability systems in the cloud. You'll gain hands-on knowledge of frameworks like ASP.NET Core, gRPC, and Entity Framework Core, as well as essential tools such as Docker, Kubernetes, Polly, Serilog, and OpenTelemetry. Whether you're upgrading from .NET Framework, building greenfield projects in .NET 8, or scaling enterprise platforms, this resource will give you the clarity and confidence to succeed. This is not just a programming manual; it's a professional playbook for building reliable, future-proof systems that meet the demands of modern business. If you're serious about leveling up your .NET skills, delivering enterprise-grade solutions, and becoming the developer that companies trust with their most critical projects, this book is for you. Start mastering modern .NET today and unlock the ability to build software that performs, scales, and lasts.

Learning .NET High-performance Programming Antonio Esposito, 2015-06-30 This book will help you understand what programming for performance means and use effective coding patterns and techniques to optimize your .NET applications. You will begin by understanding what high performance coding means and the different performance concerns. You will see how CLR works and get an understanding of concepts such as memory management, garbage collection, and thread life cycles. You will proceed to learn about the theoretical and practical concepts of PLINQ programming. You will also see what Big Data is and how to architect a Big Data solution to manipulate large datasets. Finally, you will learn how to launch and analyze a profile session and execute tests against a code block or application for performance analysis. By the end of this book, you will have a complete understanding of efficient programming using high performance techniques and will be able to write highly optimized applications.

Beginning C# and .NET Benjamin Perkins, Jon D. Reid, 2021-07-09 Get a running start to learning C# programming with this fun and easy-to-read guide. As one of the most versatile and powerful programming languages around, you might think C# would be an intimidating language to learn. It doesn't have to be. In *Beginning C# and .NET* 2021 Edition, expert Microsoft programmer and engineer Benjamin Perkins and program manager Jon D. Reid walk you through the precise, step-by-step directions you'll need to follow to become fluent in the C# language and .NET. Using the proven Wrox method, you'll discover how to understand and write simple expressions and functions, debug programs, work with classes and class members, work with Windows forms, program

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