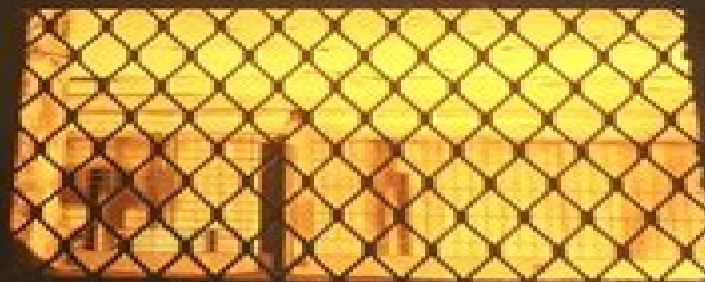


.NET Handbooks



# **Under the Hood of .NET Memory Management**

Chris Farrell and Nick Harrison



# Under The Hood Of Net Memory Management

**Dan Clark**



## **Under The Hood Of Net Memory Management:**

**Under the Hood of .Net Memory Management** Chris Farrell, Nick Harrison, 2011 This book starts with an introduction to the core concepts of NET memory management and garbage collection and then quickly layers on additional details and intricacies Once you're up to speed you can dive into the guided troubleshooting tour and tips for engineering your application to maximise performance And to finish off take a look at some more sophisticated considerations and even a peek inside the Windows memory model

**Effective .NET Memory Management** Trevor Williams, 2024-07-30 Master optimal memory management techniques in NET Core from understanding memory allocation to implementing advanced garbage collection strategies Key Features Discover tools and strategies to build efficient scalable applications Implement NET memory management techniques to effectively boost your application's performance Uncover practical methods for troubleshooting memory leaks and diagnosing performance bottlenecks Purchase of the print or Kindle book includes a free PDF eBook Book Description In today's software development landscape efficient memory management is crucial for ensuring application performance and scalability Effective NET Memory Management addresses this need by explaining the intricacies of memory utilization within NET Core apps from fundamental concepts to advanced optimization techniques Starting with an overview of memory management basics you'll quickly go through NET's garbage collection system You'll grasp the mechanics of memory allocation and gain insights into the distinctions between stack and heap memory and the nuances of value types and reference types Building on this foundation this book will help you apply practical strategies to address real world app demands spanning profiling memory usage spotting memory leaks and diagnosing performance bottlenecks through clear explanations and hands on examples This book goes beyond theory detailing actionable techniques to optimize data structures minimize memory fragmentation and streamline memory access in scenarios involving multithreading and asynchronous programming for creating responsive and resource efficient apps that can scale without sacrificing performance By the end of this book you'll have gained the knowledge to write clean efficient code that maximizes memory usage and boosts app performance What you will learn Master memory allocation techniques to minimize resource wastage Differentiate between stack and heap memory and use them efficiently Implement best practices for object lifetimes and garbage collection Understand NET Core's memory management principles for optimal performance Identify and fix memory leaks to maintain application reliability Optimize memory usage in multithreaded and asynchronous applications Utilize memory profiling tools to pinpoint and resolve memory bottlenecks Apply advanced memory management techniques to enhance app scalability Who this book is for This book is for developers and professionals who are beyond the beginner stage and seek in depth knowledge of memory management techniques within the context of NET Core Whether you are an experienced developer aiming to enhance application performance or an architect striving for optimal resource utilization this book serves as a comprehensive guide to mastering memory management intricacies To fully benefit from this book you

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**Professional C# 7 and .NET Core 2.0** Christian Nagel, 2018-03-21. The professional's guide to C# 7 with expert guidance on the newest features. Professional C# 7 and .NET Core 2.0 provides experienced programmers with the information they need to work effectively with the world's leading programming language. The latest C# update added many new features that help you get more done in less time, and this book is your ideal guide for getting up to speed quickly. C# 7 focuses on data consumption, code simplification, and performance, with new support for local functions, tuple types, record types, pattern matching, non-nullable reference types, immutable types, and better support for variables. Improvements to Visual Studio will bring significant changes to the way C# developers interact with the space, bringing .NET to non-Microsoft platforms and incorporating tools from other platforms like Docker, Gulp, and NPM. Guided by a leading .NET expert and steeped in real-world practicality, this guide is designed to get you up to date and back to work. With Microsoft speeding up its release cadence while offering more significant improvement with each update, it has never been more important to get a handle on

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Sussman, Karli Watson, 2002-02-22 What is this book about This comprehensive compendium provides a broad and thorough investigation of all aspects of programming with ASP.NET Entirely revised and updated for the 1.0 Release of .NET this book will give you the information you need to master ASP.NET and build dynamic successful enterprise Web applications What does this book cover Here are just a few of the topics covered in this book What ASP.NET is and how it makes building applications even easier How easy it is to work with ASP.NET pages and server side controls Accessing data of all kinds in your ASP.NET pages An introduction to ADO.NET Getting started with ASP.NET and the .NET Framework Creating ASP.NET pages working with server controls and data management Developing securing and configuring web applications Exploring Base class libraries components and extensibility Working with Web Services and ASP.NET in the mobile arena Debugging performance migration and interoperability Integrating this knowledge in real world development contexts Who is this book for This book is aimed at experienced ASP developers working at the leading edge rather than the casual ASP developer or beginner We do not cover the basics of COM ASP or the .NET programming languages This book is also ideal for Visual Basic developers who want to move into Web application design What do you need to use this book Here's what you need to know in order to use this book A solid understanding of ASP Familiarity with VB or C based syntax C# Java™ or C++ A desire to develop sophisticated ASP.NET applications using the .NET Framework A desire for a comprehensive and in depth guide to this exciting new technology

**MSDN Magazine**, 2009-07 **On the Move to Meaningful Internet Systems ...: CoopIS, DOA, and ODBASE**, 2004 **Real World .NET, C#, and Silverlight** Bill Evjen, Dominick Baier, György Baló, Gill Gleen, David Giard, Kevin Grossnicklaus, Alex Gosh, Caleb Jenkins, Vishwas Lele, Jeffrey Juday, Christian Weyer, Jeremy Likness, Scott Millett, Christian Nagel, Daron Yondem, 2011-11-22 A team of MVP authors guides you through the .NET 4 Framework Written by a group of experienced MVPs this unparalleled book delves into the intricate and often daunting world of .NET 4 Each author draws from a particular area of expertise to provide invaluable information on using the various .NET 4 C# Silverlight 4 and Visual Studio tools in the real world The authors break down the vast .NET 4 Framework into easily digestible portions to offer you a strong foundation on what makes .NET such a popular and successful framework for building a wide range of solutions Breaks down the .NET 4 Framework into easily understandable sections Features more than a dozen MVPs serving as authors each of whom focuses on a particular area of expertise Covers such topics as Windows Presentation Foundation Silverlight 4 Windows Communication Foundation ASP.NET performance the entity framework and more Shares C# tips and tricks and .NET architecture best practices from a team of Microsoft MVPs Real World .NET 4 and C# is the ultimate resource for discovering and understanding the .NET 4 Framework

**COBOL and Visual Basic on .NET** Chris L. Richardson, 2003 This is a comprehensive .NET retraining guide written for the COBOL CICS mainframe programmer from the perspective of a former COBOL CICS programmer

**Mastering Windows XP Home Edition** Guy Hart-Davis, 2001 Hart Davis offers the insider knowledge needed in order to make the most of Microsoft's

powerful new home operating system whether it's upgrading from Windows 98 or Me or moving straight to XP. Combining a full color graphical treatment of essential XP skills with detailed discussions of the whys behind Windows configuration, Mastering Windows XP Home Edition provides full coverage of every topic from installation to networking. Windows XP Home Edition Complete Dave Evans, Greg Jarboe, Hollis Thomases, Mari Smith, Chris Treadaway, 2001-11-13. Windows XP Home Edition Complete is a one of a kind book valuable both for its broad content and its low price. The book contains all the essentials on XP from basic navigation to accessing the Internet to setting up a home network. Windows XP Home Edition Complete provides in depth coverage of the hottest new features including Media Player 8, the Network Setup Wizard, Internet Explorer 6, Internet Connection Sharing, and CD R and CD RW support. The special optimizing section takes you beyond the basics. You'll learn to make time saving system tweaks, customize Windows to suit your preferences, enjoy Internet and multimedia features, and much more. The book also includes an alphabetical reference section which makes it easy to find information about essential features and functions. Windows XP Home Edition Complete introduces you to the work of some of Sybex's finest authors so you'll know where to go to learn even more about Windows XP.

**Beginning Object-Oriented Programming with VB 2005** Dan Clark, 2005-11-16. Takes the reader completely through all stages of a programming project including analysis, modeling, and development using object oriented programming techniques and VB.NET. VB.NET students and followers need a comprehensive resource to correct coding procedures. This is a core trade area; careers begin here with large potential sales. There is a growing and strong following for VB.NET and a market for students and procedural programmers moving to OO programming. **CQ**, 2002.

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