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# C Winrt Modern C For The Windows Runtime

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Building efficient parallel applications

A Comprehensive Guide to WinRT with Examples  
in C# and XAML

C# 7.0 in a Nutshell

Large-Scale C++ Volume I

Mastering C#

Modern C++ and Windows Store Apps

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Programming Windows

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Learn Modern C++ and STL

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**BLAZE BRYSON**

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Building efficient

parallel applications  
Packt Publishing Ltd  
Writing reliable and  
maintainable C++  
software is hard.  
Designing such

software at scale adds a new set of challenges. Creating large-scale systems requires a practical understanding of logical design – beyond the theoretical concepts addressed in most popular texts. To be successful on an enterprise scale, developers must also address physical design, a dimension of software engineering that may be unfamiliar even to expert developers. Drawing on over 30 years of hands-on experience building massive, mission-critical enterprise systems, John Lakos shows how to create and grow Software Capital. This groundbreaking volume lays the foundation for projects of all sizes and demonstrates the

processes, methods, techniques, and tools needed for successful real-world, large-scale development. Up to date and with a solid engineering focus, Large-Scale C++, Volume I: Process and Architecture, demonstrates fundamental design concepts with concrete examples. Professional developers of all experience levels will gain insights that transform their approach to design and development by understanding how to Raise productivity by leveraging differences between infrastructure and application development Achieve exponential productivity gains through feedback and hierarchical reuse Embrace the component's role as

the fundamental unit of both logical and physical design Analyze how fundamental properties of compiling and linking affect component design Discover effective partitioning of logical content in appropriately sized physical aggregates Internalize the important differences among sufficient, complete, minimal, and primitive software Deliver solutions that simultaneously optimize encapsulation, stability, and performance Exploit the nine established levelization techniques to avoid cyclic physical dependencies Use lateral designs judiciously to avoid the “heaviness” of conventional layered architectures Employ appropriate architectural insulation techniques for eliminating compile-time coupling Master the multidimensional process of designing large systems using component-based methods This is the first of John Lakos’s three authoritative volumes on developing large-scale systems using C++. This book, written for fellow software practitioners, uses familiar C++ constructs to solve real-world problems while identifying (and motivating) modern C++ alternatives. Together with the forthcoming Volume II: Design and Implementation and Volume III: Verification and Testing, Large-Scale C++ offers comprehensive

guidance for all aspects of large-scale C++ software development. If you are an architect or project leader, this book will empower you to solve critically important problems right now - and serve as your go-to reference for years to come. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

*A Comprehensive Guide to WinRT with Examples in C# and XAML* Simon and Schuster

This book is a practical guide to using Visual Studio 2013 that will help you become familiar with the improvements made over previous versions. Each recipe provides a

hands-on approach to the new features with step-by-step instructions on how to increase your productivity. If you are a developer excited about the new features introduced in Visual Studio 2013, then no matter what your programming language of choice is, Visual Studio 2013 Cookbook is for you. You should have a good knowledge of working with previous versions of Visual Studio to enjoy the recipes in this book. This book provides practical examples to help you use Visual Studio 2013 more effectively.

**C# 7.0 in a Nutshell**  
"O'Reilly Media, Inc."  
Microsoft Visual Studio 2015 empowers you to write next-generation applications for any modern environment:

mobile, web, cloud, universal Windows 10/8.x, database, and beyond. This end-to-end deep dive will help working developers squeeze maximum productivity out of Microsoft's powerful new toolset. The authors combine authoritative and detailed information about Microsoft's latest IDE, with extensive insights and best practices drawn from decades of development experience. Developers will quickly get comfortable with Visual Studio 2015's updated interface, master its new capabilities, leverage its extensive new support for open standards, and discover multiple opportunities to leverage its .NET 4.6 platform and language

improvements. By focusing entirely on Visual Studio 2015 Professional, the authors go deeper into Microsoft's core product than ever before. You'll find expert coverage of everything from debugging through deploying to Azure, IDE extension and automation through cross-platform mobile development. Throughout, this book's focus is relentlessly practical: how to apply Microsoft's tools to build better software, faster. Detailed information on how to... Master Visual Studio 2015's updated interface and key tools: Solutions, Projects, Browsers, Explorers, Editors, and Designers to improve productivity. Develop robust cross-platform mobile apps

for Windows, iOS, and Android using Apache Cordova templates for Visual Studio Use the new ASP.NET 5 to build modern web solutions that run on Windows, Mac, or Linux Develop Single Page Applications (SPAs) based on HTML5 and rich client-side JavaScript frameworks such as Knockout, AngularJS, Bootstrap, and more Accelerate cloud development with the Azure SDK, QuickStart templates, and Azure management portal Create mobile service solutions using ASP.NET Web API and WCF Streamline data development across multiple platforms with Entity Framework 7 Develop modern Microsoft Office business applications Perform robust,

automated unit testing as you code, increasing your confidence in changes and refactoring Extend the VS 2015 IDE and Code Editor by creating custom, productivity-enhancing solutions Download all examples and source code presented in this book from [informit.com/title/9780672337369](http://informit.com/title/9780672337369) as they become available. *Large-Scale C++ Volume 1* O'Reilly Media Windows 8.1 apps are revolutionizing development on the Windows platform. Fast, fluid, tactile and chrome-free, they provide a brand-new look and feel for Windows users. These apps rely on Microsoft's Windows 8 modern UI to provide their rich and engaging user experiences for both

desktop and tablet users. The new UI in turn relies upon the Windows Runtime (WinRT) to give its apps unparalleled flexibility and power. Understanding this stack of new technologies and how they tie in to the proven C# language and the XAML standard is the subject of this book. Experienced writers Jesse Liberty, Phil Japikse, and Jon Galloway explain how you can get the most from Windows 8.1 by focusing on the features that you need for your project and bringing your existing C# coding knowledge to bear. They begin with a nuts-and-bolts examination of how the technologies fit together and show you everything you need to get up and running

with the new platform. Once you have a good understanding on the basics, you progress to more advanced topics steadily increasing your understanding as a whole. This holistic knowledge is essential to truly master Windows 8.1 development. Each topic is covered clearly and concisely and is packed with the details you need to code effectively. The most important features are given a no-nonsense, in-depth treatment and chapters contain examples that demonstrate both the power and the subtlety of Windows 8.1. *Mastering C# Apress* Contains full coverage of the ANSI/ISO C++ standard. The text covers classes, methods, interfaces and objects that make



up the standard C++ libraries.

Modern C++ and Windows Store Apps  
Apress

This updated and expanded second edition of Book provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject . We hope you find this book useful in shaping your future career & Business.

## **C++ Standard Library Quick**

### **Reference** Sams

Publishing

Microsoft has

introduced a large number of changes to

the way that the .NET Framework operates.

Familiar technologies

have being altered,

best practices

replaced, and

developer

methodologies

adjusted. Many

developers find it hard

to keep up with the

pace of change across

.NET's ever-widening array of technologies.

The introduction of

Windows 8 and its new

style of applications

only compounds the

problem. You may

know what's happening

in C#, but what about

the latest innovations

in the cloud? How is

that going to affect

your work? What

possibilities do the new async capabilities bring? What you need is a roadmap. A guide to help you see the innovations that matter and to give you a head start on the opportunities available in the new framework. Introducing .NET 4.5 is designed to provide you with just that roadmap. It serves as a no-nonsense primer that will help experienced .NET developers understand the impact of the new framework and the technologies that co-exist with it. This book will keep you updated on the changes and help you to seize new opportunities confidently and quickly.

**Build Windows 8 Apps with Microsoft Visual C++ Step by Step** Addison-Wesley

Professional  
Your hands-on, step-by-step guide to building Windows 8 apps with Microsoft Visual C++ Teach yourself how to build Windows 8 applications using the Visual C++ language—one step at a time. Ideal for those with intermediate to advanced C++ development skills, this tutorial provides practical, learn-by-doing exercises for creating apps that can adapt to different screen sizes—including desktop and laptop computers, tablets, and slates. Discover how to: Build apps using Windows 8 design guidelines Explore the Windows 8 application architecture Apply tools and libraries from Microsoft Visual Studio and the Windows 8

SDK Use XAML to create touch-optimized user interfaces Create apps that make use of device sensors Manage the Windows 8 application lifecycle Prepare your app for the Windows Store *Master WinRT, XAML, and C# to Create Innovative Windows 8 Applications* Pearson Education  
CSS for Windows 8 App Development is your learning guide for CSS – the language of great Windows 8-style apps. Learn the built-in styles that make the built-in controls shine, how to define them, and how to use CSS to give your custom app assets that beautiful Modern UI style. CSS (Cascading Style Sheets) is the clear standard for styling web applications, and with HTML, CSS, and

JavaScript now powering apps on Windows 8, it's the clear standard there as well. CSS is a powerful styling and layout language that greatly simplifies the selection of page elements and their visual display, layout, and animation. Additionally, Windows 8 apps appear on a large variety of screen formats, and CSS is the primary means for uniquely defining these layouts. Learn the language of great Windows 8-style apps Raise your knowledge of the CSS3 standard Use the styles built-in to Windows 8 style apps Apply CSS styles to your app What you'll learn Master the use of powerful CSS selectors Learn new CSS3 functionality such as flex boxes, grids, animation, and

transforms Control  
your styles from  
JavaScript for really  
powerful interactions  
See the styles  
implemented by built-  
in controls like ListView  
and override them  
Learn style rules that  
will help you  
implement good  
Windows 8 style See  
how to use LESS in  
your Windows 8-style  
app Who this book is  
for CSS for Windows 8  
App Development is for  
software developers of  
all skill levels working  
with web applications.  
If you're new, the  
foundational CSS  
examples will bring you  
up to speed quickly. If  
you're more familiar  
with CSS, you'll gain  
critical insight into its  
application in Windows  
8 for creating a great  
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consultants Jeremy Likness and John Garland present easy-to-adapt C# and XAML example code for more than 80 projects. Their real-world application examples help you apply Windows 8.1's best improvements, including large tiles, the new search control, flyouts, command bars, native WinRT networking, and new deployment and sideloading options. Drawing on their pioneering experience, they illuminate key areas of the Windows Runtime API, offering uniquely detailed coverage of encryption, cloud connectivity, devices, printers, and media integration. You'll find cutting-edge tips and tricks available in no other book. This is an indispensable resource

for all intermediate-to-advanced Windows developers, and for any architect building desktop, tablet, or mobile solutions with Microsoft technologies. Its focus on both C# and XAML will make it valuable to millions of Windows developers already familiar with Silverlight, WPF, and/or .NET. Coverage includes\* Creating robust app interfaces with the newest XAML controls, including flyouts and command bars\* Saving data in a persistent "roaming zone" for syncing across Windows 8.1 devices\* Using Visual State Manager (VSM) to build apps that adapt to various device resolutions and orientations\* Integrating virtually any form of data into your apps\* Connecting

with web services, RSS, Atom feeds, and social networks\* Securing apps via authentication, encrypting, signing, and single sign-on with Microsoft Account, Facebook, Google, and more\* Leveraging Windows 8.1 media enhancements that improve battery life and app performance\* Networking more effectively with Windows 8.1's revamped HTTP implementation and new location APIs\* Using Tiles and Toasts to keep apps alive and connected, even when they aren't running\* Enabling users to send content between devices via NFC tap and send\* Ensuring accessibility and globalizing your apps\* Efficiently debugging, optimizing, packaging,

and deploying your apps\* Building sideloadable apps that don't have to be published in Windows Store" This book doesn't just focus on singular concepts, it also provides end-to-end perspective on building an app in WinRT. It is one of those essential tools for Windows developers that will help you complete your software goals sooner than without it!"--Tim Heuer, Principal Program Manager Lead, XAML Platform, Microsoft Corporation.  
[C++ AMP Addison-Wesley Professional](#)  
 Buy the print C# 5.0 Unleashed and get the eBook version for free! See inside the book for access code and details. C# 5.0 Unleashed is for anyone who wants to

learn the C# programming language in depth, understanding how language features truly work. While giving you those insights, you learn where and how to use the features to design various kinds of software. This book not only teaches the language's capabilities, it also looks behind the scenes to build a solid foundation to aid you in understanding the .NET platform as a whole.  $\zeta$  Bart De Smet offers exceptional insight into the features of both the language and Microsoft's broader framework. He doesn't just cover the "what" and "how" of effective C# programming: He explains the "why," so you can consistently choose the right language and platform

features, maximizing your efficiency and effectiveness.  $\zeta$  The early chapters introduce the .NET platform, the tooling ecosystem, and the C# programming language, followed by in-depth coverage of the C# programming language itself, with immediate application of language features. The last chapters give an overview of the .NET Framework libraries about which every good developer on the platform should know. Understand the .NET platform: its language support, libraries, tools, and more Learn where C# fits, how it has evolved, and where it's headed Master essential language features including expressions, operators, types, objects, and

methods Efficiently manage exceptions and resources Write more effective C# object-oriented code Make the most of generics, collections, delegates, reflection, and other advanced language features Use LINQ to express queries for any form of data Master dynamic programming techniques built on .NET's Dynamic Language Runtime (DLR) Work with namespaces, assemblies, and application domains Write more efficient code using threading, synchronization, and advanced parallel programming techniques Leverage the Base Class Library (BCL) to quickly perform many common tasks Instrument, diagnose, test, and

troubleshoot your C# code Understand how to use the new C# 5.0 asynchronous programming features Leverage interoperability with Windows Runtime to build Windows 8 applications *Programming the Windows Runtime by Example* Addison-Wesley Professional Presents a collection of reusable design artifacts, called generic components, together with the techniques that make them possible. The author describes techniques for policy-based design, partial template specialization, typelists, and local classes, then goes on to implement generic components for smart pointers, object factories, functor



objects, the Visitor design pattern, and multimethod engines.

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*Programming Windows*  
Pearson Education  
Delve into programming the Windows operating system through the Windows API in with C++. Use the power of the Windows API to working with processes, threads, jobs, memory, I/O and more. The book covers current Windows 10 versions, allowing you to get the most of what Windows has to offer to developers in terms of productivity, performance and scalability.

Generic Programming and Design Patterns  
Applied Addison-Wesley Professional  
Summary Windows Store App Development

introduces C# developers to working with Windows Store apps. It provides full coverage of XAML, and addresses both app design and development. Following numerous carefully crafted examples, you'll learn about new Windows 8 features, the WinRT API, and .NET 4.5. Along the way, you'll pick up tips for deploying apps, including sale through the Windows Store. And, of course, you'll find the same deep and unique insights Pete provides in his Silverlight books. About the Technology The Windows Store provides an amazing array of productivity tools, games, and other apps directly to the millions of customers already

using Windows 8.x or Surface. Windows Store apps boast new features like touch and pen input, standardized app-to-app communication, and tight integration with the web. And, you can build Windows Store apps using the tools you already know: C# and XAML.

About this Book

Windows Store App Development introduces the Windows 8.x app model to readers familiar with traditional desktop development. You'll explore dozens of carefully crafted examples as you master Windows features, the Windows Runtime, and the best practices of app design. Along the way, you'll pick up tips for deploying apps, including selling

through the Windows Store. This book requires some knowledge of C#. No experience with Windows 8 is needed.

What's Inside

Designing, creating, and selling Windows Store apps

Developing touch and sensor-centric apps

Working C# examples, from feature-level techniques to complete app design

Making apps that talk to each other

Mixing in C++ for even more features

About the Author

Pete Brown is a Developer Evangelist at Microsoft and author of Silverlight 4 in Action and Silverlight 5 in Action. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

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Hello, Modern

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The Bulgarian C# Book  
"O'Reilly Media, Inc."  
When you have questions about C# 7.0 or the .NET CLR and its core Framework assemblies, this bestselling guide has the answers you need. Since its debut in 2000, C# has become a language of unusual flexibility and breadth, but its continual growth means there's always more to learn. Organized around concepts and use cases, this updated edition provides intermediate and advanced programmers with a concise map of C# and .NET knowledge. Dive in and discover why this Nutshell guide is considered the definitive reference on C#. Get up to speed on the C# language, from the basics of syntax

and variables to advanced topics such as pointers, operator overloading, and dynamic binding Dig deep into LINQ via three chapters dedicated to the topic Explore concurrency and asynchrony, advanced threading, and parallel programming Work with .NET features, including XML, regular expressions, networking, serialization, reflection, application domains, and security Delve into Roslyn, the modular C# 7.0 compiler-as-a-service

*Mastering Windows 8 C++ App Development*  
CreateSpace

Modern Fortran teaches you to develop fast, efficient parallel applications using twenty-first-century Fortran. In this guide,

you'll dive into Fortran by creating fun apps, including a tsunami simulator and a stock price analyzer. Filled with real-world use cases, insightful illustrations, and hands-on exercises, Modern Fortran helps you see this classic language in a whole new light. Summary

Using Fortran, early and accurate forecasts for hurricanes and other major storms have saved thousands of lives. Better designs for ships, planes, and automobiles have made travel safer, more efficient, and less expensive than ever before. Using Fortran, low-level machine learning and deep learning libraries provide incredibly easy, fast, and insightful analysis of massive data. Fortran

is an amazingly powerful and flexible programming language that forms the foundation of high performance computing for research, science, and industry. And it's come a long, long way since starting life on IBM mainframes in 1956. Modern Fortran is natively parallel, so it's uniquely suited for efficiently handling problems like complex simulations, long-range predictions, and ultra-precise designs. If you're working on tasks where speed, accuracy, and efficiency matter, it's time to discover—or re-discover—Fortran.. About the technology For over 60 years Fortran has been powering mission-critical scientific applications, and it

isn't slowing down yet! Rock-solid reliability and new support for parallel programming make Fortran an essential language for next-generation high-performance computing. Simply put, the future is in parallel, and Fortran is already there. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the book Modern Fortran teaches you to develop fast, efficient parallel applications using twenty-first-century Fortran. In this guide, you'll dive into Fortran by creating fun apps, including a tsunami simulator and a stock price analyzer. Filled with real-world use cases, insightful illustrations, and hands-on exercises,

Modern Fortran helps you see this classic language in a whole new light. What's inside Fortran's place in the modern world Working with variables, arrays, and functions Module development Parallelism with coarrays, teams, and events Interoperating Fortran with C About the reader For developers and computational scientists. No experience with Fortran required. About the author Milan Curcic is a meteorologist, oceanographer, and author of several general-purpose Fortran libraries and applications. Table of Contents PART 1 - GETTING STARTED WITH MODERN FORTRAN 1 Introducing Fortran 2 Getting started: Minimal

working app PART 2 - CORE ELEMENTS OF FORTRAN 3 Writing reusable code with functions and subroutines 4 Organizing your Fortran code using modules 5 Analyzing time series data with arrays 6 Reading, writing, and formatting your data PART 3 - ADVANCED FORTRAN USE 7 Going parallel with Fortan coarrays 8 Working with abstract data using derived types 9 Generic procedures and operators for any data type 10 User-defined operators for derived types PART 4 - THE FINAL STRETCH 11 Interoperability with C: Exposing your app to the web 12 Advanced parallelism with teams, events, and collectives **The C++ Standard Library** John Wiley &

Sons  
Coming to grips with C++11 and C++14 is more than a matter of familiarizing yourself with the features they introduce (e.g., auto type declarations, move semantics, lambda expressions, and concurrency support). The challenge is learning to use those features effectively—so that your software is correct, efficient, maintainable, and portable. That's where this practical book comes in. It describes how to write truly great software using C++11 and C++14—i.e. using modern C++. Topics include: The pros and cons of braced initialization, noexcept specifications, perfect forwarding, and smart pointer make functions  
The relationships

among std::move, std::forward, rvalue references, and universal references  
Techniques for writing clear, correct, effective lambda expressions  
How std::atomic differs from volatile, how each should be used, and how they relate to C++'s concurrency API  
How best practices in "old" C++ programming (i.e., C++98) require revision for software development in modern C++  
Effective Modern C++ follows the proven guideline-based, example-driven format of Scott Meyers' earlier books, but covers entirely new material. "After I learned the C++ basics, I then learned how to use C++ in production code from Meyer's series of Effective C++ books.

Effective Modern C++ is the most important how-to book for advice on key guidelines, styles, and idioms to use modern C++ effectively and well. Don't own it yet? Buy this one. Now". -- Herb Sutter, Chair of ISO C++ Standards Committee and C++ Software Architect at Microsoft

[Learn Modern C++ and STL](#) Simon and Schuster

Learning a new programming language might seem like a challenging task. You may have looked at coding in the past and felt it was too confusing and big to tackle. *Mastering C#: A Beginner's Guide* will take you, step by step, through the process of learning one of the best programming languages out there. In

a matter of no time, you will be able to write code like a professional. C# is one of the most widely used programming languages available – and for a good reason. Developed by Microsoft, it has a simplified syntax, type safety, garbage collection, cross-language capabilities, and developer support. It offers high productivity of rapid application development languages with the dynamic power of C and C++. Updated to cover the new features of C#, including dynamic binding, named and optional parameters, and covariant and contravariant generic types, *Mastering C#* takes the language to the next level by



promoting the ability to cleanly run programs that don't rely on static type definitions. In this book, concepts are broken down into simple steps to make sure that you can easily master the C# language, even if you have never tried coding. Carefully selected C# examples illustrate all concepts. In addition, the output for all examples are provided immediately, so you do not have to wait until you have access to your computer to test the examples. Topics are handpicked to give you proper exposure to C#, while not overwhelming with too much information. Mastering C# also covers the fundamentals of programming. It teaches you how to

define and use variables, how to manage primitive data structures (such as numbers), how to organize logical statements, how to print on the console, how to apply arrays, work with numeral systems, how to set and use methods, and how to create objects. Along with the basic programming knowledge, Mastering C# will help you understand more complicated concepts, including string processing, exception handling, using complex data structures (like trees and hash tables), defining custom classes, and working with LINQ queries. The concepts of object-oriented programming (OOP) - an established approach in modern

software development – is covered in depth as well. Moreover, you will get a complete methodology for solving programming problems as well as algorithmic problems in general. This gives you the opportunity to become a master programmer who has in-depth knowledge of programming and technology. After you acquire the fundamentals of programming, it will become much easier for you to read and learn databases and web applications, and you will understand what you read of the new material much easier rather than if you directly begin learning SQL, ASP.NET, AJAX, XAML, or WinRT. All in all, *Mastering C#* is the definitive, must-have reference for any

developer who wants to understand C#. This knowledge will enable you to turn your original and imaginative ideas into a real-world practical application.

*Windows Store App Development: C# and XAML Apress*

“Look it up in Petzold” remains the decisive last word in answering questions about Windows development. And in *PROGRAMMING WINDOWS, FIFTH EDITION*, the esteemed Windows Pioneer Award winner revises his classic text with authoritative coverage of the latest versions of the Windows operating system—once again drilling down to the essential API heart of Win32 programming. Topics include: The basics—input, output, dialog boxes An

introduction to Unicode Graphics—drawing, text and fonts, bitmaps and metafiles The kernel and the printer Sound and music Dynamic-link libraries Multitasking and multithreading The Multiple-Document Interface Programming for the Internet and intranets Packed as always with definitive examples, this newest Petzold delivers the ultimate sourcebook and tutorial for Windows programmers at all levels working with Microsoft Windows 95, Windows 98, or Microsoft Windows NT. No aspiring or experienced developer can afford to be without it. An electronic version of this book is available on the companion CD. For customers who purchase an ebook

version of this title, instructions for downloading the CD files can be found in the ebook.  
*Introducing .NET 4.5*  
Faber Publishing  
Capitalize on the faster GPU processors in today's computers with the C++ AMP code library—and bring massive parallelism to your project. With this practical book, experienced C++ developers will learn parallel programming fundamentals with C++ AMP through detailed examples, code snippets, and case studies. Learn the advantages of parallelism and get best practices for harnessing this technology in your applications. Discover how to: Gain greater code performance using graphics

processing units  
(GPUs) Choose  
accelerators that  
enable you to write  
code for GPUs Apply  
thread tiles, tile  
barriers, and tile static

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