# Advanced Debugging Microsoft

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**Thor's Microsoft Security Bible** - Timothy "Thor" Mullen 2011-07-16
Thor's Microsoft® Security Bible provides a "one-stop-shop" for Microsoft-related security techniques and procedures as applied to the typical deployment of a Microsoft-based infrastructure. The book contains detailed security concepts and methodologies described at every level: Server, Client, Organizational Structure, Platform-specific security options, application specific security (IIS, SQL, Active Directory, etc.) and also includes new, never-before-published security tools complete with source code. Named the 2011 Best Systems Administration Book by InfoSec Reviews Detailed technical information on security processes for all major Microsoft applications Unique project-based "storytelling" delivery, combining multiple security techniques and methods together for real-world solutions to security challenges in actual business use cases Reference-style content for access to specific application security techniques and methods Actual author opinion and guidance as not only HOW to go about security particular applications, but WHY to do so
*PC Mag* - 1986-03-11
PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

*Hacker Debugging Uncovered* - Kris Kaspersky 2005
Tips for the practical use of debuggers, such as NuMega SoftIce, Microsoft Visual Studio Debugger, and Microsoft Kernel Debugger, with minimum binding to a specific environment are disclosed in this debugger guide. How debuggers operate and how to overcome obstacles and repair debuggers is demonstrated. Programmers will learn how to look at what is inside a computer system, how to reconstruct the operating algorithm of a program distributed without source code, how to modify the program, and how to debug drivers. The use of debugging applications and drivers in Windows and Unix operating systems on Intel Pentium/DEC Alpha-based processors is also detailed.
**PC Mag** - 1987-06-23
PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.
*Microsoft Visual Studio 2012 Unleashed* - Mike Snell 2012-11-14
Normal 0 false false false MicrosoftInternetExplorer4 Microsoft Visual Studio 2012 significantly improves developer productivity across virtually all application lifecycle management tasks, while providing first-class support for Windows 8, Windows Phone, WindowsRT, and Windows Azure cloud development. This end-to-end deep dive will help working

developers squeeze maximum productivity out of Microsoft's powerful new toolbox. 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 2012's revamped interface and discover multiple opportunities to leverage the updated .NET 4.5 platform it supports. By focusing entirely on Visual Studio 2012 Professional, the authors have gone deeper into Microsoft's core product than ever before. You'll find expert coverage of everything from debugging through refactoring, automation through enterprise-class 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... · Use Visual Studio 2012's new interface to significantly improve your productivity · Make the most of VS 2012's new WPF-based code editor · Work with solutions, projects, browsers, explorers, and designers · Create modern "Windows Store" applications for Windows 8 and Windows RT apps with VS 2012 and Windows Runtime Library · Develop websites with ASP.NET, ASP.NET MVC, and the Razor View Engine · Create richer, smarter user interfaces for software of all types · Build robust service oriented architecture (SOA)-based systems · Construct data-centric applications with LINQ and Entity Framework · Develop SharePoint and other Microsoft Office business applications · Write Windows Azure applications that live in the cloud · Instrument, analyze, and test your software · Refactor code for greater robustness, maintainability, and performance · Leverage brand-new improvements to Windows Workflow and Windows Communication Foundation Use VS 2012's one-click web deployment capabilities Extend VS 2012 with Managed Extensibility Framework (MEF) and Automation Object Model
*Microsoft Visual Studio 2015 Unleashed* - Lars Powers 2015-08-07 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 as they become available.
*Debugging Microsoft .NET 2.0 Applications* - John Robbins 2006 Offers application debugging techniques for Microsoft .NET 2.0, covering topics such as exception monitoring, crash handlers, and multithreaded deadlocks.

<u>Visual Studio 2019 Tricks and Techniques</u> - Paul Schroeder 2021-01-15 Harness the full power of the Visual Studio IDE to take your coding skills to the next level by learning about IDE productivity practices and exclusive techniques Key FeaturesIncrease your productivity by leveraging Visual Studio 2019's improvements and featuresExplore powerful editing, code intelligence, and source code control features to increase productivityDelve into VS's powerful, untapped features such as custom project templates and extensionsBook Description Visual Studio 2019 (VS 2019) and Visual Studio Code (VS Code) are powerful professional development tools that help you to develop applications for any platform with ease. Whether you want to create web, mobile, or desktop applications, Microsoft Visual Studio is your one-stop solution. This book demonstrates some of the most sophisticated capabilities of the tooling and shows you how to use the integrated development environment (IDE) more efficiently to be more productive. You'll begin by gradually building on concepts, starting with the basics. The introductory chapters cover shortcuts, snippets, and numerous optimization tricks, along with debugging techniques, source control integration, and other important IDE features that will help you make your time more productive. With that groundwork in place, more advanced concepts such as the inner workings of project and item templates are covered. You will also learn how to write quality, secure code more efficiently as well as discover how certain Visual Studio features work 'under the hood'. By the end of this Visual Studio book, you'll have learned how to write more secure code faster than ever using your knowledge of the extensions and processes that make developing successful solutions more enjoyable and repeatable. What you will learnUnderstand the similarities and differences between VS 2019 and VS CodeGet to grips with numerous keyboard shortcuts to improve efficiencyDiscover IDE tips and tricks that make it easier to write codeExperiment with code snippets that make it easier to write repeating code patternsFind out how to customize project and item templates with the help of hands-on exercisesUse Visual Studio extensions for ease and improved productivityDelve into Visual Studio's behind the scene operationsWho this book is for This book is for C# and .NET developers who want to become more efficient and take advantage of features they may not be aware of in the IDE. Those looking to increase their productivity and write quality code more quickly by fully utilizing the power of the Visual Studio IDE will also find this book useful.

**PC Mag** - 1987-07
PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

**Microsoft Visual Studio 2008 Unleashed** - Lars Powers 2008-05-30 Microsoft® Visual Studio 2008 Unleashed is an end-to-end, deep dive into the Visual Studio development environment. It's meant to provide you guidance on how you can squeeze the ultimate productivity out of the many features built into the .NET development tools. Understanding how to use your tools will make you a better developer. This book was written with that premise as its focus. The authors have folded in real-world development experience alongside detailed information about the IDE. The result is practical, easy-to-employ information that will make you a more productive and complete developer. This book also helps to ease your transition from other development environments and former versions of Visual Studio. Finally, this book provides an entire section dedicated to Visual Studio Team System. It will help you understand how the Team Architect, Team Developer, Team Database Developer, and Team Tester work with the Team Foundation Server to increase team collaboration, visibility, and productivity. Microsoft® Visual Studio 2008 Unleashed provides straight, to-the-point answers to common developer questions about the IDE. Detailed Information on... What's new in Visual Studio 2008 Working with solutions, projects, editors, and designers Writing ASP.NET applications Writing and consuming Web Services using Windows Communication Foundation (WCF) Writing Windows Forms and Windows Presentation Foundation (WPF) applications Creating and hosting workflow-based applications using Windows Workflow Foundation (WF) Working with data and databases Refactoring

code Debugging code Automating the IDE Writing macros, add-ins, and wizards Using team collaboration and the Visual Studio Team System products Managing source code changes Tracking projects with Team Foundation Server and work items Modeling applications Performing unit, web, and load testing Working with Team Foundation Build

*Introducing Windows 10 for IT Professionals* - Ed Bott 2016-02-18 Get a head start evaluating Windows 10--with technical insights from award-winning journalist and Windows expert Ed Bott. This guide introduces new features and capabilities, providing a practical, high-level overview for IT professionals ready to begin deployment planning now. This edition was written after the release of Windows 10 version 1511 in November 2015 and includes all of its enterprise-focused features. The goal of this book is to help you sort out what's new in Windows 10, with a special emphasis on features that are different from the Windows versions you and your organization are using today, starting with an overview of the operating system, describing the many changes to the user experience, and diving deep into deployment and management tools where it's necessary.

Windows Sysinternals Administrator's Reference - Aaron Margosis 2011-06-15 Get in-depth guidance—and inside insights—for using the Windows Sysinternals tools available from Microsoft TechNet. Guided by Sysinternals creator Mark Russinovich and Windows expert Aaron Margosis, you'll drill into the features and functions of dozens of free file, disk, process, security, and Windows management tools. And you'll learn how to apply the book's best practices to help resolve your own technical issues the way the experts do. Diagnose. Troubleshoot. Optimize. Analyze CPU spikes, memory leaks, and other system problems Get a comprehensive view of file, disk, registry, process/thread, and network activity Diagnose and troubleshoot issues with Active Directory Easily scan, disable, and remove autostart applications and components Monitor application debug output Generate trigger-based memory dumps for application troubleshooting Audit and analyze file digital signatures, permissions, and other security information Execute Sysinternals management tools on one or more remote computers Master Process Explorer, Process Monitor, and Autoruns

**Windows Debugging** - Dmitry Vostokov 2009 This resource helps technical support, escalation engineers, and Windows software testers master necessary prerequisites to understand and start debugging and crash dump analysis on Windows platforms.

**Debugging Applications** - John Robbins 2000 "John Robbins has done for Windows debugging what Charles Petzold did for Windows programming." -Jeffrey Richter, author, Programming Applications for Microsoft Windows How can you prevent bugs from creeping into your programs-even before you begin writing code? What practices separate the debugging gods from the mere mortals? DEBUGGING APPLICATIONS describes a powerful, Windows-focused methodology for debugging on the offensive-starting at the requirements phase-so you catch and fix bugs at the source, before customers ever see your software. Expert bugslayer John Robbins reveals lethally effective real-world techniques for resolving just a bout any debugging problem-from memory bugs and disappearing threads to the hairiest multithreaded deadlock. * Learn the coding techniques that help you introduce fewer errors into your program and spend less time debugging * Use version control systems, bug tracking software, and other infrastructure tools to maximize product quality * Exploit the advanced debugging capabilities in the Microsoft Visual C++ and Visual Basic development systems so you debug faster and more effectively * Cushion crashes with structured exception handling and C++ exception handling * Decipher the x86 assembly language you see in the Disassembly window * Master the tools and tactics for debugging multithreaded deadlocks, cross-machine processes, multilanguage problems, Windows 2000 services and dynamic-link libraries (DLLs) that load into services, and other challenging situations Along with John's expert guidance, you also get eight of his battle-tested, professional-level utilities for solving many of the nastiest bugs you'll encounter. In all, the CD-ROM packs over 2.5 megabytes of source code to study and reuse. With DEBUGGING APPLICATIONS, you'll learn the proven practices the industry's best

developers use to eradicate bugs at the source-and deliver better software faster!

PC Mag - 1987-05-12

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**Designing Silverlight Business Applications** - Jeremy Likness 2012-03-28

Build Highly Usable, High-Performance Business Applications with Silverlight 5 Microsoft Silverlight MVP and Wintellect Consultant Jeremy Likness gives you all the hands-on guidance and proven patterns and practices you need to build scalable, maintainable, and highly professional applications for multiple platforms and browsers. In this first complete guide to designing Silverlight applications for commercial use, Likness focuses on the advanced Silverlight features most directly related to solving real-world business problems and demonstrates how these features fit together in production-quality applications. Written from the ground up, this book covers every key area of enterprise Silverlight development. For each, Likness introduces the opportunities and capabilities Silverlight provides, offers relevant case studies from actual projects, presents complete C# code samples, and explains them in detail. Every chapter concludes with a summary highlighting the specific information and techniques most important for developers to consider. Coverage includes • Discovering why Silverlight is superior to HTML5/JavaScript for most line-of-business applications • Leveraging Silverlight 5's powerful enhancements to performance, text, printing, usability, security, and programmability • Effectively applying Silverlight's application cycle in enterprise applications • Using XAML to drive Silverlight's visual interface • Quickly transforming raw data into visually appealing information • Using Silverlight's innovative Visual State Manager and data binding to separate design, UI/UX experience, and business logic • Simplifying development with the MVVM pattern • Using MEF to integrate modular code into highly extensible, maintainable, and testable Silverlight applications • Improving and automating testing with Silverlight Unit Testing Framework and third-party add-ons • Mastering each leading approach to navigation and implementing the best one for your application • Implementing the service layer, persistence, and state management • Building advanced "out-of-browser" applications • Integrating sophisticated line-of-business features into your solutions • Optimizing the performance of your Silverlight applications This book will be invaluable for all experienced client developers who use Microsoft's technology stack and want to leverage Silverlight's immense power; and for every Silverlight developer seeking to improve existing line-of-business applications with the new Silverlight 5.

Windows Debugging Notebook - Roberto Alexis Farah 2011 A reference book for technical support and escalation engineers troubleshooting and debugging complex software issues. The book is also invaluable for software maintenance and development engineers debugging Windows applications and services.

*Windows Internals* - David A. Solomon 2009-06-17 See how the core components of the Windows operating system work behind the scenes—guided by a team of internationally renowned internals experts. Fully updated for Windows Server(R) 2008 and Windows Vista(R), this classic guide delivers key architectural insights on system design, debugging, performance, and support—along with hands-on experiments to experience Windows internal behavior firsthand. Delve inside Windows architecture and internals: Understand how the core system and management mechanisms work—from the object manager to services to the registry Explore internal system data structures using tools like the kernel debugger Grasp the scheduler's priority and CPU placement algorithms Go inside the Windows security

model to see how it authorizes access to data Understand how Windows manages physical and virtual memory Tour the Windows networking stack from top to bottom—including APIs, protocol drivers, and network adapter drivers Troubleshoot file-system access problems and system boot problems Learn how to analyze crashes

**Advanced Microsoft Visual Basic 5** - Mandelbrot Set (International) Limited 1997
Offers advice on error handling, client-server issues, building distributed business objects, data access options, the year 2000 problem, multimedia, and project management

*Microsoft Excel/Visual Basic Programmer's Guide* - Microsoft Press 1995
With the Microsoft Excel/Visual Basic for Windows 95 Programmer's Guide, you'll learn to create concise, lean, and efficient code with the powerful programming language used in Microsoft Excel. This book will teach you how to become more productive with Visual Basic for Applications by customizing and adapting tools for your specific needs - you'll learn how you can create custom commands, menus, dialog boxes, messages, and buttons, as well as display custom online help for all of these items. Microsoft Excel/Visual Basic for Windows 95 Programmer's Guide runs quickly through the basics and then goes on to cover such topics as working with objects, optimizing for size and speed, debugging, communicating with other applications, accessing external data, and creating add-ins. The four appendixes cover topics that include writing code for international use, switching from the old Microsoft Excel macro language, and customizing toolbars. Written by members of the Microsoft Excel team, Microsoft Excel/Visual Basic for Windows 95 Programmer's Guide contains important information that only those intimately involved with the product can impart. If you're already practiced in recording and running macros in Microsoft Excel and want to move to more advanced programming, Microsoft Excel/Visual Basic for Windows 95 Programmer's Guide is the perfect guide for you.

**Microsoft Excel 2013 Programming by Example with VBA, XML, and ASP** - Julitta Korol 2014-04-15
This book is suitable for readers already familiar with the Excel user interface and introduces programming concepts via numerous multi-step, practical exercises. More advanced topics are introduced via custom projects. Covers recording and editing a macro and writing VBA code through working with XML documents and using ASP to display data on the Web. Microsoft Excel 2013 Programming by Example with VBA, XML and ASP is a practical how-to book on Excel programming, suitable for readers already familiar with the Excel user interface. The book introduces programming concepts via numerous multi-step, illustrated, hands-on exercises. More advanced topics are introduced via custom projects. From recording and editing a macro and writing VBA code to working with XML documents and using classic ASP to access and display data on the Web, this book takes you on a programming journey that will change the way you work with Excel. Completely updated for Excel 2010, this book provides information on performing automatic operations on files, folders, and other Microsoft Office applications. It also covers proper use of event procedures, testing and debugging, and programming advanced Excel features such as PivotTables, PivotCharts, and SmartTags. The chapters are loaded with illustrated hands-on projects and exercises that tell you exactly where to enter code, how to debug it, and then run it. Each exercise/project step is clearly explained as it is performed. Features: Explores in great detail the latest version of Excel and all of its features. Covers recording and editing a macro and writing VBA code through working with XL documents and using ASP to display data on the Web. Covers Office Web Apps.

**Cloud Debugging and Profiling in Microsoft Azure** - Jeffrey Chilberto 2020-04-11
Use this collection of best practices and tips for assessing the health of a solution. This book provides detailed techniques and instructions to quickly diagnose aspects of your Azure cloud solutions. The initial chapters of this book introduce you to the many facets of Microsoft Azure, explain why and how building for the cloud differs from on-premise development, and outline the need for a comprehensive strategy to debugging and profiling in Azure. You learn the major types of blades (FaaS, SaaS, PaaS, IaaS), how different views can be created for

different scenarios, and you will become familiar with the Favorites section, Cost Management & Billing blade, support, and Cloud Shell. You also will know how to leverage Application Insights for application performance management, in order to achieve a seamless cloud development experience. Application Insights, Log Analytics, and database storage topics are covered. The authors further guide you on identity security with Azure AD and continuous delivery with CI and CD covered in detail along with the capabilities of Azure DevOps. And you are exposed to external tooling and trouble shooting in a production environment. After reading this book, you will be able to apply methods to key Azure services, including App Service (Web Apps, Function Apps, and Logic Apps), Cloud Services, Azure Container Service, Azure Active Directory, Azure Storage, Azure SQL Database, Cosmos DB, Log Analytics, and many more. What You Will LearnDebug and manage the performance of your applications Leverage Application Insights for application performance management Extend and automate CI/CD with the help of various build tools, including Azure DevOps, TeamCity, and Cake bootstrapper Who This Book Is For Application developers, designers, and DevOps personnel who want to find a one-stop shop in best practices for managing their application's performance in the cloud and for debugging the issues accordingly

**Microsoft Windows Programming Tools** - 1990
Detailed instruction on using the specialized software-development tools necessary for Windows application development. Included is information on using the C Compiler, the Linker, and the Resource Compiler.

**Advanced SharePoint Services Solutions** - Scot P. Hillier 2006-11-01
*Practical examples can be used immediately. *Hands-on exercises. *Short, task-based procedures for solving common problems.

*Pro ASP.NET Core 3* - Adam Freeman 2020-06-06
Now in its 8th edition, Pro ASP.NET Core has been thoroughly updated for ASP.NET Core 3 and online for ASP.NET Core 5 and .NET 5.0. This comprehensive, full-color guide is the only book you need to learn ASP.NET Core development. Professional developers get ready to produce leaner applications for the ASP.NET Core platform. This edition puts ASP.NET Core 3 into context, and takes a deep dive into the tools and techniques required to build modern, extensible web applications. New features and capabilities such as MVC 3, Razor Pages, Blazor Server, and Blazor WebAssembly are covered, along with demonstrations of how they can be applied in practice. Following the same popular format and style found in previous editions, author Adam Freeman explains how to get the most out of ASP.NET Core 3. Starting with the nuts-and-bolts topics, he teaches readers about middleware components, built-in services, request model binding, and more. Moving along, he introduces increasingly more complex topics and advanced features, including endpoint routing and dependency injection. Written for professionals wanting to incorporate the latest functionality of ASP.NET Core 3 into their projects, this book also serves as a complete reference on ASP.NET Core. Beginners with some background in Microsoft web development will also greatly benefit from the in-depth coverage provided throughout. What You Will Learn: Build a solid foundation and skill set for working with the entire ASP.NET Core platformApply ASP.NET Core 3 and ASP.NET Core 5 features in your developer environment; plentiful reusable templatesSee how to create RESTful web services, web applications, and client-side applicationsLeverage existing knowledge to efficiently get up and running with new programming models Adam Freeman is an experienced IT professional who has held senior positions in a range of companies, most recently serving as chief technology officer and chief operating officer of a global bank. Now retired, he spends his time writing and long-distance running. "The Rolls-Royce of ASP.NET books, (or if you're American, the Cadillac). Very thorough!" Les Jackson, MCSD, DotNet Playbook "The author's instruction is direct, easy to understand and supplemented with clear code examples... Whether you are a beginner learning ASP.NET Core 3.1 app development, or an experienced professional ready to master advanced concepts, I consider this book a 'must have' for you!" Jeremy Likness, Senior Program Manager, Microsoft "...the best single resource for teaching MVC web apps using ASP.NET. " Charles Carter, MSCS, MSwE, JD, Cloud Application Development Instructor, Microsoft

Software and Systems Academy

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**Why Programs Fail** - Andreas Zeller 2006

Debugging has undergone a sea change in recent years. Increasing processing power has allowed for the creation of much more sophisticated software tools for the analysis and debugging of programs. This in turn has allowed debugging to graduate from a black art to a systematic discipline. The time is right to summarize this new advanced approach to debugging. Why Programs Fail is about bugs in computer programs, how to reproduce them, how to find them, and how to fix them in such a way that they do not occur anymore. This is the first comprehensive book on systematic debugging and covers a wide range of tools and techniques ranging from hands-on observation to fully automated diagnoses, and includes instructions for building automated debuggers. This discussion is built upon a solid theory of how failures occur, rather than relying on seat-of-the-pants techniques, which are of little help with large software systems or to those learning to program. Andreas Zeller is well known in the programming community for developing the GNU Data Display Debugger (DDD), a tool that visualizes the data structures of a program while it is running. Over 250,000 users as well as all major software companies use DDD for software development. Zeller is also the creator of the popular "Ask Igor" website that will automatically debug programs over the web, and he regularly speaks and consults in the USA.

**Beowulf Cluster Computing with Windows** - Thomas Sterling 2001-10-26

Comprehensive guides to the latest Beowulf tools and methodologies. Beowulf clusters, which exploit mass-market PC hardware and software in conjunction with cost-effective commercial network technology, are becoming the platform for many scientific, engineering, and commercial applications. With growing popularity has come growing complexity. Addressing that complexity, Beowulf Cluster Computing with Linux and Beowulf Cluster Computing with Windows provide system users and administrators with the tools they need to run the most advanced Beowulf clusters. The book is appearing in both Linux and Windows versions in order to reach the entire PC cluster community, which is divided into two distinct camps according to the node operating system. Each book consists of three stand-alone parts. The first provides an introduction to the underlying hardware technology, assembly, and configuration. The second part offers a detailed presentation of the major parallel programming librairies. The third, and largest, part describes software infrastructures and tools for managing cluster resources. This includes some of the most popular of the software packages available for distributed task scheduling, as well as tools for monitoring and administering system resources and user accounts. Approximately 75% of the material in the two books is shared, with the other 25% pertaining to the specific operating system. Most of the chapters include text specific to the operating system. The Linux volume includes a discussion of parallel file systems.

**Windows Internals, Part 1** - Pavel Yosifovich 2017-05-05

The definitive guide–fully updated for Windows 10 and Windows Server 2016 Delve inside Windows architecture and internals, and see how core components work behind the scenes. Led by a team of internals experts, this classic guide has been fully updated for Windows 10 and Windows Server 2016. Whether you are a developer or an IT professional, you'll get critical, insider perspectives on how Windows operates. And through hands-on experiments, you'll experience its internal behavior firsthand–knowledge you can apply to improve application design, debugging, system performance, and support. This book will help you: · Understand the Window system architecture and its most important entities, such as processes and threads · Examine how processes manage resources and threads scheduled for execution inside processes · Observe how Windows manages virtual and physical memory · Dig into the Windows I/O system and see how device drivers work and integrate

with the rest of the system · Go inside the Windows security model to see how it manages access, auditing, and authorization, and learn about the new mechanisms in Windows 10 and Server 2016

.NET Internals and Advanced Debugging Techniques - Mario Hewardt 2014-02-10
Now 100% updated to reflect Microsoft's latest platform advances, .NET Internals and Advanced Debugging Techniques, Second Edition offers focused, pragmatic guidance for tracking down today's most complex and challenging application bugs. Authored by Mario Hewardt, one of Microsoft's most respected developers, this is a "deep dive" into the most sophisticated debugging techniques for .NET 4/4.5+, Windows 8/8.1/RT, and the newest versions of Visual Studio. Hewardt helps you take full advantage of powerful debugging tools such as DebugDiag and PSSCOR; and illuminates crucial CLR concepts and behaviors every advanced Windows developer should understand. Step by step, he walks through a wide range of debugging tasks; addressing the assembly loader, managed heap, garbage collection, synchronization, interoperability, postmortem debugging, and the unique issues associated with debugging modern Windows 8 apps. This edition's extensive revisions range from the latest CLR constructs and debugging commands to major changes associated with memory, and new issues associated with WinRT process management. Reflecting his immense experience with Windows internals, Hewardt reveals how to quickly identify the real root causes of problems - so you can fix them far more rapidly and effectively.

**Debugging Strategies For .NET Developers** - Darin Dillon 2003-04-01
Debugging Strategies for .NET Developers teaches developers how to think about debugging in Microsoft .NET rather than with the specific tools. Author Darin Dillon describes debugging concepts, such as assertions and logging, and immediately follows each discussion with an example from his experiences of when that technique was used to solve a real-world bug. While other debugging books focus on obscure techniques for advanced users, this book is a highly readable exploration that conveys the basic thought process of debugging, as well as the specific techniques and when to apply those techniques.

**Inside Microsoft Dynamics AX 2012 R3** - Microsoft Dynamics AX Team 2014
Explores the architecture, components, and tools of Microsoft Dynamics AX 2012 R3, including forms, security, SharePoint integration, workflow infrastructure, reporting, automating tasks and document distribution, and application domain frameworks.

*Inside Windows Debugging* - Tarik Soulami 2012-05-15
Use Windows debuggers throughout the development cycle—and build better software Rethink your use of Windows debugging and tracing tools—and learn how to make them a key part of test-driven software development. Led by a member of the Windows Fundamentals Team at Microsoft, you'll apply expert debugging and tracing techniques—and sharpen your C++ and C# code analysis skills—through practical examples and common scenarios. Learn why experienced developers use debuggers in every step of the development process, and not just when bugs appear. Discover how to: Go behind the scenes to examine how powerful Windows debuggers work Catch bugs early in the development cycle with static and runtime analysis tools Gain practical strategies to tackle the most common code defects Apply expert tricks to handle user-mode and kernel-mode debugging tasks Implement postmortem techniques such as JIT and dump debugging Debug the concurrency and security aspects of your software Use debuggers to analyze interactions between your code and the operating system Analyze software behavior with Xperf and the Event Tracing for Windows (ETW) framework

Introduction to Service Engineering - Waldemar Karwowski 2010-01-12
What you need to know to engineer the global service economy. As customers and service providers create new value through globally interconnected service enterprises, service engineers are finding new opportunities to innovate, design, and manage the service operations and processes of the new service-based economy. Introduction to Service Engineering provides the tools and information a service engineer needs to fulfill this critical new role. The book introduces engineers as well as students to the fundamentals of the theory and practice of service engineering, covering the characteristics of service enterprises, service

design and operations, customer service and service quality, web-based services, and innovations in service systems. Readers explore such key aspects of service engineering as: The role of service science in developing a smarter planet Service enterprises, including: enterprise value creation, architecture of service organizations, service enterprise modeling, and the application of methods of systems engineering to services Service design, including collaborative e-service systems and the new service development process Service operations and management, including service call centers Service quality, from design operations to customer relations Web-based services and technology in the global e-organization Innovation in service systems from service engineering to integrative solutions, service-oriented architecture solutions, and technology transfer streams With chapters written by fifty-seven specialists and edited by bestselling authors Gavriel Salvendy and Waldemar Karwowski, Introduction to Service Engineering uses numerous examples, problems, and real-world case studies to help readers master the knowledge and the skills required to succeed in service engineering.

**Debugging Applications for Microsoft .NET and Microsoft Windows** - John Robbins 2003
Offers application debugging techniques for Microsoft .NET Framework and Windows, covering topics such as exception monitoring, crash handlers, and multithreaded deadlocks.

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Advanced Windows Debugging - Mario Hewardt 2007-10-29
The First In-Depth, Real-World, Insider's Guide to Powerful Windows Debugging For Windows developers, few tasks are more challenging than debugging--or more crucial. Reliable and realistic information about Windows debugging has always been scarce. Now, with over 15 years of experience two of Microsoft's system-level developers present a

thorough and practical guide to Windows debugging ever written. Mario Hewardt and Daniel Pravat cover debugging throughout the entire application lifecycle and show how to make the most of the tools currently available––including Microsoft's powerful native debuggers and third-party solutions. To help you find real solutions fast, this book is organized around real-world debugging scenarios. Hewardt and Pravat use detailed code examples to illuminate the complex debugging challenges professional developers actually face. From core Windows operating system concepts to security, Windows® Vista™ and 64-bit debugging, they address emerging topics head-on–and nothing is ever oversimplified or glossed over!

Troubleshooting with the Windows Sysinternals Tools - Mark E. Russinovich 2016-10-10
Optimize Windows system reliability and performance with Sysinternals IT pros and power users consider the free Windows Sysinternals tools indispensable for diagnosing, troubleshooting, and deeply understanding the Windows platform. In this extensively updated guide, Sysinternals creator Mark Russinovich and Windows expert Aaron Margosis help you use these powerful tools to optimize any Windows system's reliability, efficiency, performance, and security. The authors first explain Sysinternals' capabilities and help you get started fast. Next, they offer in-depth coverage of each major tool, from Process Explorer and Process Monitor to Sysinternals' security and file utilities. Then, building on this knowledge, they show the tools being used to solve real-world cases involving error messages, hangs, sluggishness, malware infections, and much more. Windows Sysinternals creator Mark Russinovich and Aaron Margosis show you how to: Use Process Explorer to display detailed process and system information Use Process Monitor to capture low-level system events, and quickly filter the output to narrow down root causes List, categorize, and manage software that starts when you start or sign in to your computer, or when you run Microsoft Office or Internet Explorer Verify digital signatures of files, of running programs, and of the modules loaded in those programs Use Autoruns, Process Explorer, Sigcheck, and Process Monitor features that can identify and clean

malware infestations Inspect permissions on files, keys, services, shares, and other objects Use Sysmon to monitor security-relevant events across your network Generate memory dumps when a process meets specified criteria Execute processes remotely, and close files that were opened remotely Manage Active Directory objects and trace LDAP API calls Capture detailed data about processors, memory, and clocks Troubleshoot unbootable devices, file-in-use errors, unexplained communication, and many other problems Understand Windows core concepts that aren't well-documented elsewhere

Advanced .NET Debugging - Mario Hewardt 2009-11-09
"Mario Hewardt's Advanced .NET Debugging is an excellent resource for both beginner and experienced developers working with .NET. The book is also packed with many debugging tips and discussions of CLR internals, which will benefit developers architecting software." –Jeffrey Richter, consultant, trainer, and author at Wintellect "Mario has done it again. His Advanced Windows Debugging (coauthored with Daniel Pravat) is an invaluable resource for native code debugging, and Advanced .NET Debugging achieves the same quality, clarity, and breadth to make it just as invaluable for .NET debugging." –Mark Russinovich, Technical Fellow, Microsoft Corporation The Only Complete, Practical Guide to Fixing the Toughest .NET Bugs Advanced .NET Debugging is the first focused, pragmatic guide to tracking down today's most complex and challenging .NET application bugs. It is the only book to focus entirely on using powerful native debugging tools, including WinDBG, NTSD, and CDB, to debug .NET applications. Using these tools, author Mario Hewardt explains how to identify the real root causes of problems—far more quickly than you ever could with other debuggers. Hewardt first introduces the key concepts needed to successfully use .NET's native debuggers. Next, he turns to sophisticated debugging techniques, using real-world examples that demonstrate many common C# programming errors. This book enables you to Make practical use of postmortem debugging, including PowerDBG and other "power tools" Understand the debugging details and implications of the new .NET CLR 4.0 Master and successfully use Debugging Tools for Windows, as well as SOS, SOSEX, CLR Profiler, and other powerful tools Gain a deeper, more practical understanding of CLR internals, such as examining thread-specific data, managed heap and garbage collector, interoperability layer, and .NET exceptions Solve difficult synchronization problems, managed heap problems, interoperability problems, and much more Generate and successfully analyze crash dumps A companion web site (advanceddotnetdebugging.com) contains all sample code, examples, and bonus content.