

Foreword by Ben Fathi

Corporate Vice President, Windows Core Development, Microsoft Corporation

Windows[®] Internals

5
FIFTH
EDITION

Covering Windows Server[®] 2008
and Windows Vista[®]



Mark E. Russinovich
and David A. Solomon
with Alex Ionescu

Windowsinternals Including Windows Server 2008 And Windows Vista Fifth Edition Developer Reference

Tarik Soulami



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OPERATING SYSTEM Monelli Ayyavaraiah,2021-05-06 Operating systems are an essential part of any computer system. Similarly, a course on operating systems is an essential part of any computer science education. This field is undergoing rapid change as computers are now prevalent in virtually every arena of day-to-day life, from embedded devices in automobiles through the most sophisticated planning tools for governments and multinational firms. Yet the fundamental concepts remain fairly clear, and it is on these that we base this book. We wrote this book as a text for an introductory course in operating systems at the junior or senior undergraduate level or at the first-year graduate level. We hope that practitioners will also find it useful. It provides a clear description of the concepts that underlie operating systems. As prerequisites, we assume that the reader is familiar with basic data structures, computer organization, and a high-level language such as C or Java. The hardware topics required for an understanding of operating systems are covered in Chapter 1. In that chapter, we also include an overview of the fundamental data structures that are prevalent in most operating systems. For code examples, we use predominantly C with some Java, but the reader can still understand the algorithms without a thorough knowledge of these languages. Concepts are presented using intuitive descriptions. Important theoretical results are covered, but formal proofs are largely omitted. The bibliographical notes at the end of each chapter contain pointers to research papers in which results were first presented and proved, as well as references to recent material for further reading. In place of proofs, figures, and examples are used to suggest why we should expect the result in question to be true. The fundamental concepts and algorithms covered in the book are often based on those used in both commercial and open-source operating systems. Our aim is to present these concepts and algorithms in a general setting that is not tied to one particular operating system. However, we present a large number of examples that pertain to the most popular and the most innovative operating systems, including Linux, Microsoft Windows, Apple Mac OS X, and Solaris. We also include examples of both Android and iOS, currently the two dominant mobile operating systems.

Windows Internals David A. Solomon, Mark E. Russinovich, Alex Ionescu, 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. *Detecting*

Peripheral-based Attacks on the Host Memory Patrick Stewin, 2014-12-27 This work addresses stealthy peripheral based attacks on host computers and presents a new approach to detecting them Peripherals can be regarded as separate systems that have a dedicated processor and dedicated runtime memory to handle their tasks The book addresses the problem that peripherals generally communicate with the host via the host's main memory storing cryptographic keys passwords opened files and other sensitive data in the process an aspect attackers are quick to exploit Here stealthy malicious software based on isolated micro controllers is implemented to conduct an attack analysis the results of which provide the basis for developing a novel runtime detector The detector reveals stealthy peripheral based attacks on the host's main memory by exploiting certain hardware properties while a permanent and resource efficient measurement strategy ensures that the detector is also capable of detecting transient attacks which can otherwise succeed when the applied strategy only measures intermittently Attackers exploit this strategy by attacking the system in between two measurements and erasing all traces of the attack before the system is measured again

Windows Internals, Part 2 Mark E. Russinovich, David A. Solomon, Alex Ionescu, 2012-09-15 Delve inside Windows architecture and internals and see how core components work behind the scenes Led by three renowned internals experts this classic guide is fully updated for Windows 7 and Windows Server 2008 R2 and now presents its coverage in two volumes As always you 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 In Part 2 you'll examine Core subsystems for I/O storage memory management cache manager and file systems Startup and shutdown processes Crash dump analysis including troubleshooting tools and techniques

Windows Internals, Part 1 Mark E. Russinovich, David A. Solomon, Alex Ionescu, 2012-03-15 Delve inside Windows architecture and internals and see how core components work behind the scenes Led by three renowned internals experts this classic guide is fully updated for Windows 7 and Windows Server 2008 R2 and now presents its coverage in two volumes As always you 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 In Part 1 you will Understand how core system and management mechanisms work including the object manager synchronization Wow64 Hyper V and the registry Examine the data structures and activities behind processes threads and jobs Go inside the Windows security model to see how it manages access auditing and authorization Explore the Windows networking stack from top to bottom including APIs BranchCache protocol and NDIS drivers and layered services Dig into internals hands on using the kernel debugger performance monitor and other tools

Windows Internals, Fifth Edition David Ionescu, 2009 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

Microsoft Windows Internals Mark E. Russinovich, David A. Solomon, 2005

The classic indepth developer's guide to the Windows kernel now covers Windows NET Server 2003 Windows XP and Windows 2000

Windows System Programming Johnson M. Hart, 2010-02-16 The Definitive Guide to Windows API Programming Fully Updated for Windows 7 Windows Server 2008 and Windows Vista Windows System Programming Fourth Edition now contains extensive new coverage of 64 bit programming parallelism multicore systems and many other crucial topics Johnson Hart's robust code examples have been updated and streamlined throughout They have been debugged and tested in both 32 bit and 64 bit versions on single and multiprocessor systems and under Windows 7 Vista Server 2008 and Windows XP To clarify program operation sample programs are now illustrated with dozens of screenshots Hart systematically covers Windows externals at the API level presenting practical coverage of all the services Windows programmers need and emphasizing how Windows functions actually behave and interact in real world applications Hart begins with features used in single process applications and gradually progresses to more sophisticated functions and multithreaded environments Topics covered include file systems memory management exceptions processes threads synchronization interprocess communication Windows services and security New coverage in this edition includes Leveraging parallelism and maximizing performance in multicore systems Promoting source code portability and application interoperability across Windows Linux and UNIX Using 64 bit address spaces and ensuring 64 bit 32 bit portability Improving performance and scalability using threads thread pools and completion ports Techniques to improve program reliability and performance in all systems Windows performance enhancing API features available starting with Windows Vista such as slim reader writer locks and condition variables A companion Web site jmhartsoftware.com contains all sample code Visual Studio projects additional examples errata reader comments and Windows commentary and discussion

Windows Internals Pavel Yosifovich, Mark E. Russinovich, Alex Ionescu, David A. Solomon, 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

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Windows Internals, Sixth Edition David A. Solomon Mark E. Russinovich,2012 **Mastering Microsoft Windows Server 2008 R2** Mark Minasi,Darril Gibson,Aidan Finn,Wendy Henry,Byron Hynes,2010-03-30 The one book you absolutely need to get up and running with Windows Server 2008 R2 One of the world s leading Windows authorities and top selling author Mark Minasi explores every nook and cranny of the latest version of Microsoft s flagship network operating system Windows Server 2008 R2 giving you the most in depth coverage in any book on the market Focuses on Windows Windows Server 2008 R2 the newest version of Microsoft s Windows server line of operating system and the ideal server for new Windows 7 clients Author Mark Minasi is one of the world s leading Windows authorities and has taught tens of thousands of people to design and run Windows networks Covers Windows storage concepts and skills Windows Server 2008 IP WINS NetBIOS LMHosts DNS creating the simple Active Directory and creating and managing user accounts Explains Group Policy in Active Directory files folders and shares Sysvol old and new sharing printers on the network remote server administration

connecting Windows clients to your network working the Web with IIS 7.0 and AD maintenance and recovery Provides workarounds for things that don't quite work as they should and how-tos for many undocumented features Find out everything you want to know and then some *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 Windows® Administrator's Kit Ed Bott, Carl Siechert, Craig Stinson, 2009-02-01 Dive in for the ultimate in-depth references for Windows administrators Each supremely organized guide packs hundreds of timesaving solutions troubleshooting tips insider secrets and workarounds Discover how the experts plan and manage their Windows implementations and challenge yourself to new levels of mastery Windows Vista Inside Out Configure and customize your system with advanced setup options Manage files folders and media libraries Set up a wired or wireless network Administer accounts passwords and logons Configure Windows Internet Explorer settings and security zones Combat viruses worms and spyware Troubleshoot errors and fine-tune performance Manage shared resources and access Automate routine maintenance Windows Server 2008 Inside Out Prepare your installation or upgrade Configure server roles role services and features Plan create and manage user accounts Set up TCP/IP networking DHCP WINS DNS Manage storage file systems network resources print services Design and manage Active Directory sites Plan and implement high availability with clustering and load balancing Implement security for applications systems and sites Manage system performance backups and recovery CDs include Fully searchable eBook for each INSIDE OUT 700 sample scripts to automate administrative tasks Links to tools for IIS Windows PowerShell and Microsoft System Center Operations Manager 2007 Downloadable gadgets and customization tools Links to white papers test labs security updates webcasts demos Direct from the source insights on the official Windows Vista blog Windows Vista Product Guide eReference Sample chapters from 15 related Microsoft Press books Maximum PC Microsoft Windows Vista Exposed Mark Edward Soper, 2008 Designed to help users get the most from the new features in Windows Vista a straightforward manual explains how to understand and master the new and improved technologies in Windows Vista covering everything from digital media

and information organization to gaming multimedia Internet connectivity security and more **Microsoft Windows NT 4.0**

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Windows Vista in a Nutshell Preston Gralla,2006-12-22 This unique reference thoroughly documents every important setting and feature in Microsoft s new operating system with alphabetical listings for hundreds of commands windows menus listboxes buttons scrollbars and other elements of Windows Vista With this book s simple organization you ll easily find any setting tool or feature for the task you want to accomplish Along with a system overview that highlights major changes and a tour of the basics such as manipulating files and getting around the interface Windows Vista in a Nutshell offers alphabetized references for these topics The User Interface Covers the Sidebar Aero Glass the new Control Panel layout and applets as well as how to customize animated windows the desktop Start menu pop up windows on the Taskbar and more The File System Drives Data and Search Discusses working with the new Windows Explorer Virtual Folders searches indexing saved searches metadata and sharing The Internet and Networking Examines TCP IP RSS tabbed browsing and anti phishing features of Internet Explorer plus cookie handling parental control features and more Networking and Wireless Offers an illustrated step by step guide to setting up a home network covers the Network Center Sync Center Hot Spot access wireless management collaboration and sharing Working with Hardware Describes how to set up maintain and troubleshoot hardware including keyboards mice monitors USB devices scanners cameras and sound devices and how to add install and troubleshoot drivers Security Includes the Security Center Windows Defender User Account Protection System Protection Network Access Protection WiFi encryption Windows Firewall file encryption and more Mobility Explains Mobility Center settings plugging a secondary monitor into your computer and the new network projection feature for making presentations Multimedia Covers Windows Photo Gallery Media Player Media Center podcasting features connecting to and synching with MP3 players recording TV and videos making videos with Windows Movie Maker and burning CDs and DVDs The Command

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Introduction

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