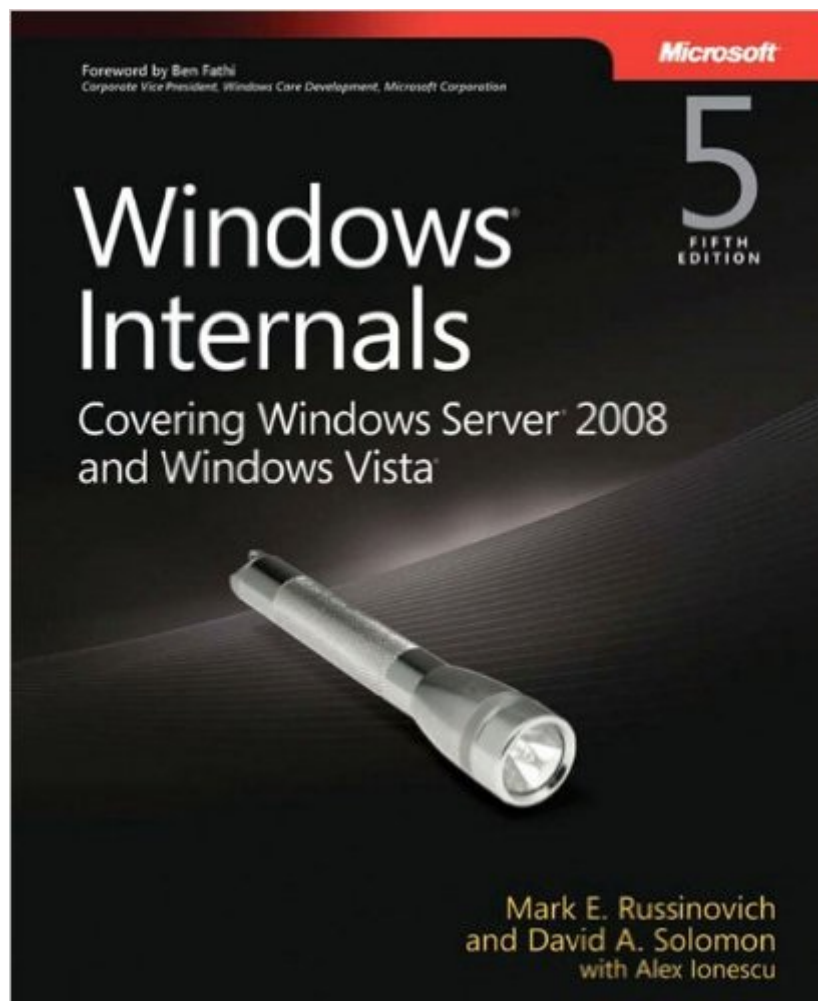


The book was found

# Windows® Internals: Including Windows Server 2008 And Windows Vista, Fifth Edition (Developer Reference)



## Synopsis

See how the core components of the Windows operating system work behind the scenesâ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 supportâ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 workâ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 bottomâincluding APIs, protocol drivers, and network adapter drivers Troubleshoot file-system access problems and system boot problems Learn how to analyze crashes

## Book Information

Series: Developer Reference

Hardcover: 1232 pages

Publisher: Microsoft Press; 5 edition (June 17, 2009)

Language: English

ISBN-10: 0735625301

ISBN-13: 978-0735625303

Product Dimensions: 7.8 x 2.2 x 9.2 inches

Shipping Weight: 4.7 pounds

Average Customer Review: 4.8 out of 5 starsÂÂ See all reviewsÂ (35 customer reviews)

Best Sellers Rank: #796,817 in Books (See Top 100 in Books) #145 inÂ Books > Computers & Technology > Networking & Cloud Computing > Network Administration > Windows Administration #217 inÂ Books > Computers & Technology > Certification > Microsoft #272 inÂ Books > Computers & Technology > Business Technology > Windows Server

## Customer Reviews

Late last week (around 7/2/2009), a small but heavy box showed up at my door. I'd long since forgotten bugging Mark Russinovich last December for a review copy of the latest edition of his Windows internals book: Windows Internals: Including Windows Server 2008 and Windows Vista, 5th edition, co-authored with David A. Solomon and Alex Ionescu, but there it was in my hot little

hands. In my odd free moments since then, I've been plowing through this 1,260 page book to see what's new and interesting -- though I obviously haven't had time to read it in its entirety. Keep that caveat in mind as I extoll this book's many treasures. Here's another caveat: the primary audience for this book is Windows system developers. They're the people who will get the most out of its contents, and my lack of in-depth Windows system programming experience probably explains why my eyes glaze over and my mind goes on vacation as I look at certain sections in the book. That said, there's a tremendous wealth of information on Windows in here (and from what I can tell, thanks to having recently updated 9 chapters for the upcoming Pearson title "Windows 7 in Depth" it applies nearly 100% to Windows 7 as well as Windows Vista, thanks to relatively little changes in the kernel and other system facilities between these two most recent desktop Windows versions). In particular, these are the topics that I found most interesting and illuminating as I flipped through the book for a first quick pass over its contents (I'll report again from time to time as I dig more deeply into its contents): Chapter 2 System Architecture: learned a thing or two about device drivers, and how to find them, in this chapter.

Windows Internals, 5th Ed (WI5E) by Mark Russinovich and David Solomon, with Alex Ionescu, is a remarkable technical achievement. I read the book to better understand Windows to improve my security knowledge. I am not a Windows programmer, but I thought WI5E would provide context for some of the exploit and vulnerability information I occasionally encounter. I absorbed as much of WI5E as I could, but quickly found the scope and depth of the material to be incredible. While there is no substitute for reading source code, the explanations in WI5E come close! So many aspects of Windows are described, to such a deep level, that you might find yourself wanting to use Windows just to see WI5E's descriptions at work. One of the best aspects of WI5E is the demonstration of "Experiments." Dozens of times per chapter the authors explain a key concept or detail by showing it at work in Windows. Sometimes they use a Sysinternals tool, sometimes they use a debugger, and sometimes they use other Windows utilities. I thought this was a great way to get readers to learn more about Windows in a hands-on environment. Another unique feature of WI5E is the 30-page glossary. While not covering every item I might have wanted to see, it was truly helpful. I also liked the figures and tables. For example, Figure 12-2, OSI Model and Windows Networking Components, offered a great overview of how Windows components provide networking services, while Table 3-25, Components Protected by KPP, addressed a security topic that interested me. My only suggestion for future improvement would be to give readers like myself more opportunities to see the big picture. I often felt overwhelmed and sometimes lost when reading WI5E.

[Download to continue reading...](#)

Windows® Internals: Including Windows Server 2008 and Windows Vista, Fifth Edition  
(Developer Reference) Microsoft SQL Server 2012 Internals (Developer Reference) Microsoft  
Windows Internals (4th Edition): Microsoft Windows Server 2003, Windows XP, and Windows 2000  
Hands-on Study Guide for Exam 70-411: Administering Windows Server 2012 R2 (Exam 70-411,  
70-411, Exam Ref 70-411, MCSA Windows Server 2012 R2, MCSE Windows Server 2012 R2) Red  
Hat Enterprise Linux (RHEL) 7 Server Installation and Administration: Training Manual: Covering  
CentOS-7 Server, Cloud computing, Bind9 DNS Server and Fedora 23 Server Red Hat Enterprise  
Linux (RHEL) 6 Server Installation & Administration: Training Manual: Covering CentOS-6,  
OpenSUSE 11.3 Server, Mandriva Enterprise Server, and Fedora 14 Server Exam Ref 70-417  
Upgrading from Windows Server 2008 to Windows Server 2012 R2 (MCSA) Windows® Group  
Policy Resource Kit: Windows Server® 2008 and Windows Vista®: Windows Server®  
2008 and Windows Vista® Professional SQL Server 2008 Internals and Troubleshooting  
Windows Internals, Part 1 (6th Edition) (Developer Reference) The Semantic Web - ISWC 2008: 7th  
International Semantic Web Conference, ISWC 2008, Karlsruhe, Germany, October 26-30, 2008,  
Proceedings (Lecture Notes in Computer Science) Beginning SQL Server 2008 Express for  
Developers: From Novice to Professional (Expert's Voice in SQL Server) Pro SQL Server 2008  
Failover Clustering (Expert's Voice in SQL Server) Microsoft Windows Server 2008 R2  
Administration Instant Reference A Beginner's Guide to AutoHotkey, Absolutely the Best Free  
Windows Utility Software Ever! (Third Edition): Create Power Tools for Windows XP, Windows Vista,  
... and Windows 10 (AutoHotkey Tips and Tricks) Windows Vista Security: Securing Vista Against  
Malicious Attacks Windows Server 2012 R2: How to install and add roles?: (Desktop Experience)  
(Windows Server 2012 R2: From installation to configuration) The Guru's Guide to SQL Server  
Architecture and Internals Microsoft SQL Server 2012 High-Performance T-SQL Using Window  
Functions (Developer Reference) Windows Server 2008 R2 Unleashed

[Dmca](#)