

Foreword by Ben Fathi
Corporate Vice President, Windows Core Development, Microsoft Corporation

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Covering Windows Server[®] 2008
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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

Windows Internals, Part 2 Andrea Allievi,Alex Ionescu,Mark E. Russinovich,David A. Solomon,2021-08-31 Drill down into Windows architecture and internals discover how core Windows components work behind the scenes and master information you can continually apply to improve architecture development system administration and support Led by three renowned Windows internals experts this classic guide is now fully updated for Windows 10 and 8 x As always it combines unparalleled insider perspectives on how Windows behaves under the hood with hands on experiments that let you experience these hidden behaviors firsthand Part 2 examines these and other key Windows 10 OS components and capabilities Startup and shutdown The Windows Registry Windows management mechanisms WMI System mechanisms ALPC ETW Cache Manager Windows file systems The hypervisor and virtualization UWP Activation Revised throughout this edition also contains three entirely new chapters Virtualization technologies Management diagnostics and tracing Caching and file system support

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** 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 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 **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

Programming Many-Core Chips András Vajda, 2011-06-10 This book presents new concepts techniques and promising programming models for designing software for chips with many hundreds to thousands processor cores Given the scale of parallelism inherent to these chips software designers face new challenges in terms of operating systems middleware and applications This will serve as an invaluable single source reference to the state of the art in programming many core chips Coverage includes many core architectures operating systems middleware and programming models

Proceedings of the European Information Security Multi-Conference (EISMC 2013) Nathan Clarke, Steven Furnell, Vasilis Katos, 2013 This book represents the proceedings from the information security multi conference EISMC All of the papers were subject to double blind peer review with each being reviewed by at least two members of the international programme committee

Windows Security Internals James Forshaw, 2024-04-30 Power up your Windows security skills with expert guidance in depth technical insights and dozens of real world vulnerability examples from Google Project Zero s most renowned researcher Learn core components of the system in greater depth than ever before and gain hands on experience probing advanced Microsoft security systems with the added benefit of PowerShell scripts Windows Security Internals is a must have for anyone needing to understand the Windows operating system s low level implementations whether to discover new vulnerabilities or protect against known ones Developers devops and security researchers will all find unparalleled insight into the operating system s key elements and weaknesses surpassing even Microsoft s official documentation Author James Forshaw teaches through meticulously crafted PowerShell examples that can be experimented with and modified covering everything from basic resource security analysis to advanced techniques like using network authentication The examples will help you actively test and manipulate system behaviors learn how Windows secures files and the registry re create from scratch how the system grants access to a resource learn how Windows implements authentication both locally and over a network and much more You ll also explore a wide range of topics such as Windows security architecture including both the kernel and user mode applications The Windows Security Reference Monitor SRM including access tokens querying and setting a resource s security descriptor and access checking

and auditing Interactive Windows authentication and credential storage in the Security Account Manager SAM and Active Directory Mechanisms of network authentication protocols including NTLM and Kerberos In an era of sophisticated cyberattacks on Windows networks mastering the operating system s complex security mechanisms is more crucial than ever Whether you re defending against the latest cyber threats or delving into the intricacies of Windows security architecture you ll find Windows Security Internals indispensable in your efforts to navigate the complexities of today s cybersecurity landscape

Windows System Performance Through Caching Paperback Timothy Mangan, 2012-06-24 The caching of code and data is a common technique used throughout the Windows Operating System in order to improve system and application performance While System Performance is a difficult subject this work represents a digestable look at performance by isolating the top fifteen or so ways that caching is used in the Windows 7 Operating System A book that not only explains how performance but gives the reader techniques to investigate on his or her own Each of the caching techniques described and detailed and experiments are provided that the reader may use to look further into the performance of their own systems Even performance experts will learn something new from this book Numerous free tools are used for these experiments and the appendix provides an excellent guide to using these tools This book represents the culmination of years of research and a series of presentations made by the Author in front of audiences around the world

The Rootkit Arsenal Bill Blunden, 2012-03-15 While forensic analysis has proven to be a valuable investigative tool in the field of computer security utilizing anti forensic technology makes it possible to maintain a covert operational foothold for extended periods even in a high security environment Adopting an approach that favors full disclosure the updated Second Edition of The Rootkit Arsenal presents the most accessible timely and complete coverage of forensic countermeasures This book covers more topics in greater depth than any other currently available In doing so the author forges through the murky back alleys of the Internet shedding light on material that has traditionally been poorly documented partially documented or intentionally undocumented The range of topics presented includes how to Evade post mortem analysis Frustrate attempts to reverse engineer your command control modules Defeat live incident response Undermine the process of memory analysis Modify subsystem internals to feed misinformation to the outside Entrench your code in fortified regions of execution Design and implement covert channels Unearth new avenues of attack Offers exhaustive background material on the Intel platform and Windows Internals Covers stratagems and tactics that have been used by botnets to harvest sensitive data Includes working proof of concept examples implemented in the C programming language Heavily annotated with references to original sources 2013 784 pages

Windows Graphics Programming Feng Yuan, 2001 Currently there aren t any good books on Windows graphics programming Programmers looking for help are left to muddle their way through online documentation and API books that don t focus on this topic This book paves new ground covering actual graphics implementation hidden restrictions and performance issues programmers need to know about

Pro .NET Performance Sasha Goldshtein, Dima

Zurbalev,SELA Group,Ido Flatow,2012-10-22 Maximizing the performance of your algorithms and applications is extremely important and can give you a competitive advantage a lower cost of ownership and happier users Pro NET Performance explains the internals of Windows the CLR and the physical hardware that affect the performance of your applications and gives you the knowledge and tools to measure how your code performs in isolation from external factors The book is full of C code samples and tips to help you squeeze every bit of juice from your application lower memory utilization consistent CPU usage and fewer I O operations across the network and disk Pro NET Performance will change the way you think about NET application development Guides you through performance measurement with a variety of profilers and other tools Explains how OS and CLR internals affect your application s performance in unexpected ways Provides you with tips and real life case studies for improving application performance

Accelerated C# 2010 Trey Nash,2010-03-23 C 2010 offers powerful new features and this book is the fastest path to mastering them and the rest of C for both experienced C programmers moving to C 2010 and programmers moving to C from another object oriented language Many books introduce C but very few also explain how to use it optimally with the NET Common Language Runtime CLR This book teaches both core C language concepts and how to wisely employ C idioms and object oriented design patterns to exploit the power of C and the CLR This book is both a rapid tutorial and a permanent reference You ll quickly master C syntax while learning how the CLR simplifies many programming tasks You ll also learn best practices that ensure your code will be efficient reusable and robust Why spend months or years discovering the best ways to design and code C when this book will show you how to do things the right way from the start Comprehensively and concisely explains both C 2008 and C 2010 features Focuses on the language itself and on how to use C 2010 proficiently for all NET application development Concentrates on how C features work and how to best use them for robust high performance code

Cyber Security Essentials James Graham,Ryan Olson,Rick Howard,2016-04-19 The sophisticated methods used in recent high profile cyber incidents have driven many to need to understand how such security issues work Demystifying the complexity often associated with information assurance Cyber Security Essentials provides a clear understanding of the concepts behind prevalent threats tactics and procedures To accomplish

A Guide to Kernel Exploitation Enrico Perla,Massimiliano Oldani,2010-10-28 A Guide to Kernel Exploitation Attacking the Core discusses the theoretical techniques and approaches needed to develop reliable and effective kernel level exploits and applies them to different operating systems namely UNIX derivatives Mac OS X and Windows Concepts and tactics are presented categorically so that even when a specifically detailed vulnerability has been patched the foundational information provided will help hackers in writing a newer better attack or help pen testers auditors and the like develop a more concrete design and defensive structure The book is organized into four parts Part I introduces the kernel and sets out the theoretical basis on which to build the rest of the book Part II focuses on different operating systems and describes exploits for them that target various bug classes Part III on remote kernel exploitation analyzes the effects of the remote

scenario and presents new techniques to target remote issues It includes a step by step analysis of the development of a reliable one shot remote exploit for a real vulnerability a bug affecting the SCTP subsystem found in the Linux kernel Finally Part IV wraps up the analysis on kernel exploitation and looks at what the future may hold Covers a range of operating system families UNIX derivatives Mac OS X Windows Details common scenarios such as generic memory corruption stack overflow heap overflow etc issues logical bugs and race conditions Delivers the reader from user land exploitation to the world of kernel land OS exploits attacks with a particular focus on the steps that lead to the creation of successful techniques in order to give to the reader something more than just a set of tricks **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 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

Computing Handbook, Third Edition Heikki Topi,Allen Tucker,2014-05-14 Computing Handbook Third Edition Information Systems and Information Technology demonstrates the richness and breadth of the IS and IT disciplines The second volume of this popular handbook explores their close links to the practice of using managing and developing IT based solutions to advance the goals of modern organizational environments Established leading experts and influential young researchers present introductions to the current status and future directions of research and give in depth perspectives on the contributions of academic research to the practice of IS and IT development use and management Like the first volume

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Attack and Defend Computer Security Set Dafydd Stuttard, Marcus Pinto, Michael Hale Ligh, Steven Adair, Blake Hartstein, Ozh Richard, 2014-03-17

Defend your networks and data from attack with this unique two book security set The Attack and Defend Computer Security Set is a two book set comprised of the bestselling second edition of Web Application Hacker s Handbook and Malware Analyst s Cookbook This special security bundle combines coverage of the two most crucial tactics used to defend networks applications and data from attack while giving security professionals insight into the underlying details of these attacks themselves The Web Application Hacker s Handbook takes a broad look at web application security and exposes the steps a hacker can take to attack an application while providing information on how the application can defend itself Fully updated for the latest security trends and threats this guide covers remoting frameworks HTML5 and cross domain integration techniques along with clickjacking framebusting HTTP parameter pollution XML external entity injection hybrid file attacks and more The Malware Analyst s Cookbook includes a book and DVD and is designed to enhance the analytical capabilities of anyone who works with malware Whether you re tracking a Trojan across networks performing an in depth binary analysis or inspecting a machine for potential infections the recipes in this book will help you go beyond the basic tools for tackling security challenges to cover how to extend your favorite tools or build your own from scratch using C Python and Perl source code The companion DVD features all the files needed to work through the recipes in the book and to complete reverse engineering challenges along the way The Attack and Defend Computer Security Set gives your organization the security tools needed to sound the alarm and stand your ground against malicious threats lurking online

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