Windows Internals

Part 1

System architecture, processes, threads, memory management, and more

Microsoft

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SEVENTH EDITION

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Windows Internals 7th Edition

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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   Operating Systems Sukomal Pal,2025-06-01   **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   c't Windows c't-Redaktion,2020-09-21 Das neue Sonderheft c t Windows kommt mit praktischen Tricks zu t glich nutzbaren Anwendungen Von der ma geschneiderten Windows Installation angepasst an die eigenen Bed rfnisse ber das Arbeiten im Homeoffice auf Distanz bis hin zum Verschl sseln von Festplatten und der richtigen Verwendung von Passwortmanagern zum Schutz der eigenen Daten Dar ber hinaus hat Windows 10 ab der Pro Edition mit Hyper V einen m chtigen Virtualisierer an Bord Und falls Sie immer schon die Registry nderungen oder das Windows Rechtesystem nachvollziehen wollten sind Sie hier genau richtig   *Windows Internals Seventh Edition Part 1* Pavel Yosifovich,Alex Ionescu,Mark Russinovich,David Solomon,2017 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

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is for incident responders cyber security investigators system administrators malware analyst forensic practitioners student or curious security professionals interested in learning malware analysis and memory forensics Knowledge of programming languages such as C and Python is helpful but is not mandatory If you have written few lines of code and have a basic understanding of programming concepts you ll be able to get most out of this book __Debunking C++ Myths__ Alexandru Bolboacă,Ferenc-Lajos Deák,2024-12-30 Explore the origins of C myths and their relevance today learn to sidestep common pitfalls and adopt modern best practices to master the evolving C programming landscape Key Features Trace the origins of C misconceptions and understand why they persist Learn to avoid pitfalls caused by misunderstood C standards Leverage the lesser known features of the C programming language Purchase of the print or Kindle book includes a free PDF eBook Book Description Think you know C Think again For decades C has been clouded by myths and misunderstandings from its early design decisions to misconceptions that still linger today Claims like C is too hard to learn or C is obsolete are often rooted in some truth but they are outdated and fail to capture the language s ongoing evolution and modern capabilities Written by industry veterans with over 40 years of combined experience this book uncovers the myths exploring their origins and relevance in the context of today s C landscape It equips you with a deeper understanding of advanced features and best practices to elevate your projects Each chapter tackles a specific misconception shedding light on C s modern features such as smart pointers lambdas and concurrency You ll learn practical strategies to navigate common challenges like code portability and compiler compatibility as well as how to incorporate modern best practices into your C codebase to optimize performance and future proof your projects By the end of this book you ll have a comprehensive understanding of C s evolution equipping you to make informed decisions and harness its powerful features to enhance your skills coding practices and projects What you will learn Comprehend the history of C and the design decisions that shape modern challenges Master program flow and its underlying principles to resolve issues effectively Tackle incompatibility across compilers and platforms with ease Identify issues and avoid writing code that may lead to undefined behavior Explore advanced C features not typically covered in academia Address concerns about compiler code generation and optimizations Understand why undefined behavior remains intentionally undefined Who this book is for This book is for intermediate to advanced C developers looking to deepen their understanding of the language s complexities It is perfect for coders eager to avoid common mistakes hackers scholars with a sense of humor or anyone with an interest in C Programmers who want to expand their knowledge refine existing skills explore new paradigms or dive into the nuances of C will find valuable insights Technical leads and software engineering managers adopting new technologies or navigating the C ecosystem will also benefit from this book __Windows 7 Annoyances__ David Karp,2010-05-04 Tools and Techniques to Improve Your Experience with Windows 7 __Systemprogrammierung mit Delphi__ Devid Espenschied,2024-11-15 W hrend st ndig neue Technologien und Schnittstellen die Softwareentwicklung mit Delphi begleiten f hrt Sie dieses Buch in die Systemprogrammierung ein die

auch heute noch einen h ufig untersch tzten Stellenwert hat Systemprogrammierung kann sehr komplex sein und setzt fortgeschrittene Kenntnisse voraus Mit der richtigen Methodik l sst sich das System besser beherrschen und ein besseres Systemverst ndnis erreichen Dadurch sind viele Systeminformationen fundierter und umfassender ermittelbar als es mit Windows Bordmitteln m glich w re Nach einer Einf hrung in die Systemprogrammierung und Windows Architektur werden Delphi Zugriffe auf API WMI Registrierung SMBIOS und Prozessor ausf hrlich besprochen Weiterhin erfolgt die Entwicklung eines Windows Kernelmodus Treibers mit Microsoft Visual Studio der auch unter Windows den Hardwarezugriff erm glicht Darauf aufbauend wird eine Beispielanwendung entworfen die u a pr zise Angaben zu Prozessoren mitsamt deren Temperatursensoren Speichermodulen und PCI Ger ten bietet ideal als praxisnahe Erg nzung zu den theoretischen Inhalten

Computer Network Security Vladimir Gorodetsky,2005-09-12 This book constitutes the refereed proceedings of the Third International Workshop on Mathematical Methods Models and Architectures for Computer Network Security MMM ACNS 2005 held in St Petersburg Russia in September 2005 The 25 revised full papers and 12 revised short papers presented together with 5 invited papers were carefully reviewed and selected from a total of 85 submissions The papers are organized in topical sections on mathematical models architectures and protocols for computer network security authentication authorization and access control information flow analysis covert channels and trust management security policy and operating system security threat modeling vulnerability assessment and network forensics and intrusion detection

Cloudspeicher im Hochschuleinsatz 2015 Kao, Odej,Hildmann, Thomas,2016-04-12 Im Mai 2015 fand zum zweiten Mal die Tagung Cloudspeicher im Hochschuleinsatz an der Technischen Universit t Berlin statt Das Interesse an diesem Thema ist weiterhin ungebrochen die bisher diskutierten Aspekte wie Skalierbarkeit Datenschutz und Datensicherheit etc werden im Zuge der fortschreitenden Einf hrung von Cloudspeichersystemen erg nzt um Fragen der hochschul bergreifenden Kooperation oder der Integration in vorhandene Infrastrukturen Dieser Band versammelt die Beitr ge der Tagung die am 7 und 8 Mai 2015 an der TU Berlin stattfand In 2015 the second conference Cloud Storage Deployment in Academics took place Interest regarding this issue was again high and topics established in 2014 like data security and scalability were complemented by new ones like federations or technical integration in existing infrastructures This is caused by the advances in the establishment of cloud based storage systems This publication contains the contributions of the conference Cloud Storage Deployment in Academics 2015 which took place in may 2015 at TU Berlin **Hands-On High Performance Programming with Qt 5** Marek Krajewski,2019-01-31 Build efficient and fast Qt applications target performance problems and discover solutions to refine your code Key FeaturesBuild efficient and concurrent applications in Qt to create cross platform applicationsIdentify performance bottlenecks and apply the correct algorithm to improve application performanceDelve into parallel programming and memory management to optimize your codeBook Description Achieving efficient code through performance tuning is one of the key challenges faced by many programmers This book

looks at Qt programming from a performance perspective You ll explore the performance problems encountered when using the Qt framework and means and ways to resolve them and optimize performance The book highlights performance improvements and new features released in Qt 5 9 Qt 5 11 and 5 12 LTE You ll master general computer performance best practices and tools which can help you identify the reasons behind low performance and the most common performance pitfalls experienced when using the Qt framework In the following chapters you ll explore multithreading and asynchronous programming with C and Qt and learn the importance and efficient use of data structures You ll also get the opportunity to work through techniques such as memory management and design guidelines which are essential to improve application performance Comprehensive sections that cover all these concepts will prepare you for gaining hands on experience of some of Qt s most exciting application fields the mobile and embedded development domains By the end of this book you ll be ready to build Qt applications that are more efficient concurrent and performance oriented in nature What you will learnUnderstand classic performance best practicesGet to grips with modern hardware architecture and its performance impactImplement tools and procedures used in performance optimizationGrasp Qt specific work techniques for graphical user interface GUI and platform programmingMake Transmission Control Protocol TCP and Hypertext Transfer Protocol HTTP performant and use the relevant Qt classesDiscover the improvements Qt 5 9 and the upcoming versions holds in storeExplore Qt s graphic engine architecture strengths and weaknessesWho this book is for This book is designed for Qt developers who wish to build highly performance applications for desktop and embedded devices Programming Experience with C is required   **Data Science and Analytics** Brajendra Panda,Sudeep Sharma,Nihar Ranjan Roy,2018-03-07 This book constitutes the refereed proceedings of the 4th International Conference on Recent Developments in Science Engineering and Technology REDSET 2017 held in Gurgaon India in October 2017 The 66 revised full papers presented were carefully reviewed and selected from 329 submissions The papers are organized in topical sections on big data analysis data centric programming next generation computing social and web analytics security in data science analytics   **The Art of Software Security Assessment** Mark Dowd,John McDonald,Justin Schuh,2006-11-20 The Definitive Insider s Guide to Auditing Software Security This is one of the most detailed sophisticated and useful guides to software security auditing ever written The authors are leading security consultants and researchers who have personally uncovered vulnerabilities in applications ranging from sendmail to Microsoft Exchange Check Point VPN to Internet Explorer Drawing on their extraordinary experience they introduce a start to finish methodology for ripping apart applications to reveal even the most subtle and well hidden security flaws The Art of Software Security Assessment covers the full spectrum of software vulnerabilities in both UNIX Linux and Windows environments It demonstrates how to audit security in applications of all sizes and functions including network and Web software Moreover it teaches using extensive examples of real code drawn from past flaws in many of the industry s highest profile applications Coverage includes Code auditing theory practice proven

methodologies and secrets of the trade Bridging the gap between secure software design and post implementation review Performing architectural assessment design review threat modeling and operational review Identifying vulnerabilities related to memory management data types and malformed data UNIX Linux assessment privileges files and processes Windows specific issues including objects and the filesystem Auditing interprocess communication synchronization and state Evaluating network software IP stacks firewalls and common application protocols Auditing Web applications and technologies   *Внутреннее устройство Windows. 7-е изд.* Марк Руссинович,Дэвид Соломон,Алекс Ионеску,Павел Йосифович,2022-04-01 Windows Windows 10 Windows Windows 10 Windows Windows   *Advanced Kernel Mode Programming: APCs In Kernel Mode* Apriorit Inc.,Artem Kotovsky,2020-09-17 This e book was written for developers by Apriorit experts who share their experience working with Asynchronous Procedure Calls APCs in kernel mode on Windows and describe what pitfalls to expect It goes in depth on how to implement an APC in the Windows 10 kernel explains the APC delivery scheme and shows several undocumented ways of working with APCs from kernel mode An Asynchronous Procedure Call provides a way to execute code within the context of a specific thread How to use APCs in user mode is well documented but how to use APCs from kernel mode isn t However that doesn t mean it s impossible Applying undocumented approaches for working with an APC from a kernel mode driver may lead to unexpected consequences Therefore we ve come up with several methods and used our knowledge and experience to try them all ourselves in order to save your time and efforts In this e book you ll find 1 A concise answer to what an APC is and how APCs can be used in Windows systems 2 Approaches and disadvantages of working with an APC from a kernel mode driver 3 A safe APC implementation based on reference counting of the kernel object 4 Examples of using an APC in the Windows kernel This guide contains detailed descriptions of major approaches to working with an APC from a kernel mode driver including using only alertable threads forcing APC delivery using an unloadable driver and counting object driver references It also explores the mechanism of assembler stub implementation for x86 and x64 This e book will be useful for anyone interested in alternative ways of working with APCs and anyone who wants to learn how to use APCs in the Windows kernel mode Table of contents What is an Asynchronous Procedure Call Using an APC in kernel mode Alertable and non alertable threads Using only alertable threads Forcing APC delivery Using the unexportable KeRemoveQueueApc function Using an unloadable driver Using object driver reference counting Assembler stub implementation for x86 Assembler stub implementation for x64 Examples of using an APC in the Windows kernel References   Systems Performance Brendan Gregg,2020-12-09 Systems Performance Second Edition covers concepts strategy tools and tuning for operating systems and applications using Linux based operating systems as the primary example A deep understanding of these tools and techniques is critical for developers today Implementing the strategies described in this thoroughly revised and updated edition can lead to a better end user experience and lower costs especially for cloud computing environments that charge by the OS instance Systems performance expert and best selling

author Brendan Gregg summarizes relevant operating system hardware and application theory to quickly get professionals up to speed even if they have never analyzed performance before Gregg then provides in depth explanations of the latest tools and techniques including extended BPF and shows how to get the most out of cloud web and large scale enterprise systems Key topics covered include Hardware kernel and application internals and how they perform Methodologies for rapid performance analysis of complex systems Optimizing CPU memory file system disk and networking usage Sophisticated profiling and tracing with perf Ftrace and BPF BCC and bpftrace Performance challenges associated with cloud computing hypervisors Benchmarking more effectively Featuring up to date coverage of Linux operating systems and environments Systems Performance Second Edition also addresses issues that apply to any computer system The book will be a go to reference for many years to come and like the first edition required reading at leading tech companies Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details

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