
Inside Windows Debugging A Practical Guide To Debugging And Tracing Strategies In Windows Author Tarik Soulami May 2012

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Windows Internals

Advanced .NET Debugging

Practical C++ Programming

Windows Debugging Notebook

Writing Secure Code

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The Old New Thing

Hacker Debugging Uncovered

Debugging Microsoft .NET 2.0 Applications

Practical Malware Analysis

Practical Foundations of Windows Debugging, Disassembling, Reversing

Practical Development Environments

Automate the Boring Stuff with Python, 2nd Edition

Troubleshooting with the Windows Sysinternals Tools

Windows Internals, Part 2

The Windows 2000 Device Driver Book

Practical Reverse Engineering

Debugging Windows Programs

*Inside Windows Debugging A Practical Guide To Debugging
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May 2012*

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HOOPER LEBLANC

Windows Internals No Starch Press

Analyzing how hacks are done, so as to stop them in the future Reverse engineering is the process of analyzing hardware or software and understanding it, without having access to the source code or design documents. Hackers are able to reverse engineer systems and exploit what they find with scary results. Now the goodguys can use the same tools to thwart these threats. Practical Reverse Engineering goes under the hood of reverse engineering for security analysts, security engineers, and system programmers, so they can learn how to use these same processes to stop hackers in their tracks. The book covers x86, x64, and ARM (the first book to cover all three); Windows kernel-mode code rootkits and drivers; virtual machine protection techniques; and much more. Best of all, it offers a systematic approach to the material, with plenty of hands-on exercises and real-world examples. Offers a systematic approach to understanding reverse engineering, with hands-on exercises and real-world examples Covers x86, x64, and advanced RISC machine (ARM) architectures as well as deobfuscation and virtual machine protection techniques Provides special coverage of Windows kernel-mode code (rootkits/drivers), a topic not often covered elsewhere, and explains how to analyze drivers step by step Demystifies topics that have a steep learning curve Includes a bonus chapter on reverse engineering tools Practical Reverse Engineering: Using x86, x64, ARM, Windows Kernel, and Reversing Tools provides crucial, up-to-date guidance for a broad range of IT professionals.

ADVANCED .NET DEBUGGING

Pearson Education

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

PRACTICAL C++ PROGRAMMING

Wiley

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.

[Windows Debugging Notebook](#) Fastprint Publishing

'Downright revolutionary... the title is a major understatement... 'Quantum Programming' may ultimately change the way embedded software is designed.' -- Michael Barr, Editor-in-Chief, Embedded Systems Programming magazine ([Click here](#))

WRITING SECURE CODE

"O'Reilly Media, Inc."

Every software developer and IT professional understands the crucial importance of effective debugging. Often, debugging consumes most of a developer's workday, and mastering the required techniques and skills can take a lifetime. In *Effective Debugging*, Diomidis Spinellis helps experienced programmers accelerate their journey to mastery, by systematically categorizing, explaining, and illustrating the most useful debugging methods, strategies, techniques, and tools. Drawing on more than thirty-five years of experience, Spinellis expands your arsenal of debugging techniques, helping you choose the best approaches for each challenge. He presents vendor-neutral, example-rich advice on general principles, high-level strategies, concrete techniques, high-efficiency tools, creative tricks, and the behavioral traits associated with effective debugging. Spinellis's 66 expert techniques address every facet of debugging and are illustrated with step-by-step instructions and actual code. He addresses the full spectrum of problems that can arise in modern software systems, especially problems caused by complex interactions among components and services running on hosts scattered around the planet. Whether you're debugging isolated runtime errors or catastrophic enterprise system failures, this guide will help you get the job done—more quickly, and with less pain. Key features include High-level strategies and methods for addressing diverse software failures Specific techniques to apply when programming, compiling, and running code Better ways to make the most of your debugger General-purpose skills and tools worth investing in Advanced ideas and techniques for escaping dead-ends and the maze of complexity Advice for making programs easier to debug Specialized approaches for debugging multithreaded, asynchronous, and embedded code Bug avoidance through improved software design, construction, and management

[Windows Internals](#) John Wiley & Sons

This book doesn't tell you how to write faster code, or how to write code with fewer memory leaks, or even how to debug code at all. What it does tell you is how to build your product in better ways,

how to keep track of the code that you write, and how to track the bugs in your code. Plus some more things you'll wish you had known before starting a project. *Practical Development Environments* is a guide, a collection of advice about real development environments for small to medium-sized projects and groups. Each of the chapters considers a different kind of tool - tools for tracking versions of files, build tools, testing tools, bug-tracking tools, tools for creating documentation, and tools for creating packaged releases. Each chapter discusses what you should look for in that kind of tool and what to avoid, and also describes some good ideas, bad ideas, and annoying experiences for each area. Specific instances of each type of tool are described in enough detail so that you can decide which ones you want to investigate further. Developers want to write code, not maintain makefiles. Writers want to write content instead of manage templates. IT provides machines, but doesn't have time to maintain all the different tools. Managers want the product to move smoothly from development to release, and are interested in tools to help this happen more often. Whether as a full-time position or just because they are helpful, all projects have toolsmiths: making choices about tools, installing them, and then maintaining the tools that everyone else depends upon. This book is especially for everyone who ends up being a toolsmith for his or her group.

THE BOOK OF R

Microsoft Press

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!

NetBeans: The Definitive Guide No Starch Press

This training course is a combined and reformatted version of the two previous books *Windows Debugging: Practical Foundations* and *x64 Windows Debugging: Practical Foundations*. The new format makes it easy to switch between and compare x86 and x64 versions. The book also has a larger format similar to other training courses from Software Diagnostics Services, punctuation and code highlighting improvements, the output and screenshots from the latest WinDbg 10, and consistently uses WinDbg (X86) for 32-bit examples and WinDbg (X64) for 64-bit examples. The book contains two separate sets of chapters and corresponding illustrations. They are named Chapter x86.NN and Chapter x64.NN respectively. There is some repetition of content due to the shared nature of x64 and x86 platforms. Both sets of chapters can be read independently. We

included x86 chapters because many Windows applications are still 32-bit and executed in 32-bit compatibility mode on x64 Windows systems. This introductory training course can complement the more advanced course *Accelerated Disassembly, Reconstruction and Reversing* (ISBN: 978-1908043672).

The Old New Thing Addison-Wesley Professional

Practical C++ Programming thoroughly covers: C++ syntax · Coding standards and style · Creation and use of object classes · Templates · Debugging and optimization · Use of the C++ preprocessor · File input/output.

Hacker Debugging Uncovered Pearson Education

Master the art of identifying vulnerabilities within the Windows OS and develop the desired solutions for it using Kali Linux. Key Features Identify the vulnerabilities in your system using Kali Linux 2018.02 Discover the art of exploiting Windows kernel drivers Get to know several bypassing techniques to gain control of your Windows environment Book Description Windows has always been the go-to platform for users around the globe to perform administration and ad hoc tasks, in settings that range from small offices to global enterprises, and this massive footprint makes securing Windows a unique challenge. This book will enable you to distinguish yourself to your clients. In this book, you'll learn advanced techniques to attack Windows environments from the indispensable toolkit that is Kali Linux. We'll work through core network hacking concepts and advanced Windows exploitation techniques, such as stack and heap overflows, precision heap spraying, and kernel exploitation, using coding principles that allow you to leverage powerful Python scripts and shellcode. We'll wrap up with post-exploitation strategies that enable you to go deeper and keep your access. Finally, we'll introduce kernel hacking fundamentals and fuzzing testing, so you can discover vulnerabilities and write custom exploits. By the end of this book, you'll be well-versed in identifying vulnerabilities within the Windows OS and developing the desired solutions for them. What you will learn Get to know advanced pen testing techniques with Kali Linux Gain an understanding of Kali Linux tools and methods from behind the scenes See how to use Kali Linux at an advanced level Understand the exploitation of Windows kernel drivers Understand advanced Windows concepts and protections, and how to bypass them using Kali Linux Discover Windows exploitation techniques, such as stack and heap overflows and kernel exploitation, through coding principles Who this book is for This book is for penetration testers, ethical hackers, and individuals breaking into the pentesting role after demonstrating an advanced skill in boot camps. Prior experience with Windows exploitation, Kali Linux, and some Windows debugging tools is necessary [Debugging Microsoft .NET 2.0 Applications](#) Pearson Education

An Essential Reference for Intermediate and Advanced R Programmers *Advanced R* presents useful tools and techniques for attacking many types of R programming problems, helping you avoid mistakes and dead ends. With more than ten years of experience programming in R, the author illustrates the elegance, beauty, and flexibility at the heart of R. The book develops the necessary skills to produce quality code that can be used in a variety of circumstances. You will learn: The fundamentals of R, including standard data types and functions Functional programming as a useful framework for solving wide classes of problems The positives and negatives of metaprogramming How to write fast, memory-efficient code This book not only helps current R users become R

programmers but also shows existing programmers what's special about R. Intermediate R programmers can dive deeper into R and learn new strategies for solving diverse problems while programmers from other languages can learn the details of R and understand why R works the way it does.

Practical Malware Analysis Prentice Hall Professional

"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

Practical Foundations of Windows Debugging, Disassembling, Reversing Pearson Education

This is the authoritative reference for understanding and using the NetBeans Integrated Development Environment for creating new software with Java. Contains a detailed tutorial.

Practical Development Environments Addison-Wesley Professional

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

Automate the Boring Stuff with Python, 2nd Edition Addison-Wesley Professional

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.

Troubleshooting with the Windows Sysinternals Tools "O'Reilly Media, Inc."

Malware analysis is big business, and attacks can cost a company dearly. When malware breaches your defenses, you need to act quickly to cure current infections and prevent future ones from occurring. For those who want to stay ahead of the latest malware, *Practical Malware Analysis* will teach you the tools and techniques used by professional analysts. With this book as your guide, you'll be able to safely analyze, debug, and disassemble any malicious software that comes your way. You'll learn how to: –Set up a safe virtual environment to analyze malware –Quickly extract network signatures and host-based indicators –Use key analysis tools like IDA Pro, OllyDbg, and WinDbg –Overcome malware tricks like obfuscation, anti-disassembly, anti-debugging, and anti-virtual machine techniques –Use your newfound knowledge of Windows internals for malware analysis –Develop a methodology for unpacking malware and get practical experience with five of the most popular packers –Analyze special cases of malware with shellcode, C++, and 64-bit code Hands-on labs throughout the book challenge you to practice and synthesize your skills as you dissect real malware samples, and pages of detailed dissections offer an over-the-shoulder look at how the pros do it. You'll learn how to crack open malware to see how it really works, determine what damage it has done, thoroughly clean your network, and ensure that the malware never comes back. Malware analysis is a cat-and-mouse game with rules that are constantly changing, so make sure you have the fundamentals. Whether you're tasked with securing one network or a thousand networks, or you're making a living as a malware analyst, you'll find what you need to succeed in *Practical Malware Analysis*.

WINDOWS INTERNALS, PART 2

Microsoft Press

The full transcript of Software Diagnostics Services training with step-by-step exercises, notes, and source code to learn live local and remote debugging techniques in kernel, user process and managed .NET spaces using WinDbg debugger. The second edition was fully reworked and updated to use the latest WinDbg version and Windows 10.

THE WINDOWS 2000 DEVICE DRIVER BOOK

Packt Publishing Ltd

Covers topics such as the importance of secure systems, threat modeling, canonical representation issues, solving database input, denial-of-service attacks, and security code reviews and checklists.

PRACTICAL REVERSE ENGINEERING

Packt Publishing Ltd

"The Developer's Guide to Debugging" is a book for both professional software developers seeking

to broaden their skills and students that want to learn the tricks of the trade from the ground up. With small inlined examples and exercises at the end of each chapter it is well suited to accompany a CS course or lecture. At the same time it can be used as a reference used to address problems as the need arises. This book goes beyond the level of simple source code debugging scenarios. In addition, it covers the most frequent real-world problems from the areas of program linking, memory access, parallel processing and performance analysis.

Debugging Windows Programs No Starch Press

Get the essential, straightforward information you need—and master the core topics for debugging applications with Microsoft Visual Studio 2005. Debugging expert John Robbins offers practical

answers to real-world development questions, including code samples in Microsoft Visual C# and Visual Basic. You'll learn the debugging techniques and tools to debug more efficiently and help ensure top-quality code. Discover how to: Arm yourself with tools and techniques that contribute to long-term success in the debugging battlefield Implement John's practical debugging process to sniff out bugs—including "freak" bugs Catch bugs during development with assertions, tracers, and comments Set advanced breakpoints in your debugger to specify exact trigger conditions Use the Watch window, Data Tips, and Visualizers to see key data quickly Employ other debugging tools, such as WinDBG, SOS, and ADPlus Write macros and add-ins to extend the Visual Studio integrated development environment Debug with Code Analysis—and learn to write your own rules PLUS—Get code samples on the Web

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