

Debug

Prabhat Mishra, Farimah Farahmandi

Debugging David J. Agans, 2002-09-23 When the pressure is on to resolve an elusive software or hardware glitch, what's needed is a cool head courtesy of a set of rules guaranteed to work on any system, in any circumstance. Written in a frank but engaging style, this book provides simple, foolproof principles guaranteed to help find any bug quickly. Recognized tech expert and author David Agans changes the way you think about debugging, making those pesky problems suddenly much easier to find and fix. Agans identifies nine simple, practical rules that are applicable to any software application or hardware system, which can help detect any bug, no matter how tricky or obscure. Illustrating the rules with real-life bug-detection war stories, Debugging shows you how to: Understand the system: how perceiving the roadmap can hasten your journey Quit thinking and look: when hands-on investigation can't be avoided Isolate critical factors: why changing one element at a time can be an essential tool Keep an audit trail: how keeping a record of the debugging process can win the day Whether the system or program you're working on has been designed wrong, built wrong, or used wrong, Debugging helps you think correctly about bugs, so the problems virtually reveal themselves.

Hacker Debugging Uncovered Kris Kaspersky, 2005 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.

Effective Debugging Diomidis Spinellis, 2016-06-29 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

Advanced Windows Debugging Mario Hewardt, Daniel Pravat, 2007-10-29 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!

Debug Automation from Pre-Silicon to Post-Silicon Mehdi Dehbashi, Görschwin Fey, 2014-09-25 This book describes automated debugging approaches for the bugs and the faults which appear in different abstraction levels of a hardware system. The authors employ a transaction-based debug approach to systems at the transaction-level, asserting the correct relation of transactions. The automated debug approach for design bugs finds the potential fault candidates at RTL and gate-level of a circuit. Debug techniques for logic bugs and synchronization bugs are demonstrated, enabling readers to localize the most difficult bugs. Debug automation for electrical faults (delay faults) finds the potentially failing speedpaths in a circuit at gate-level. The various debug approaches described achieve high diagnosis accuracy and reduce the debugging time, shortening the IC development cycle and increasing the productivity of designers. Describes a unified framework for debug automation used at both pre-silicon and post-silicon stages; Provides approaches for debug automation of a hardware system at different levels of abstraction, i.e., chip, gate-level, RTL and transaction level; Includes techniques for debug automation of design bugs and electrical faults, as well as an infrastructure to debug NoC-based multiprocessor SoCs.

Linux Kernel Debugging Kaiwan N Billimoria, 2022-08-05 Effectively debug kernel modules, device drivers, and the kernel itself by gaining a solid understanding of powerful open source tools and advanced kernel debugging techniques Key Features • Fully understand how to use a variety of kernel and module debugging tools and techniques using examples • Learn to expertly interpret a kernel Oops and identify underlying defect(s) • Use easy-to-look up tables and clear explanations of kernel-level defects to make this complex topic easy Book Description The Linux kernel is at the very core of arguably the world's best production-quality OS. Debugging it, though, can be a complex endeavor. Linux Kernel Debugging is a comprehensive guide to learning all about advanced

kernel debugging. This book covers many areas in-depth, such as instrumentation-based debugging techniques (printk and the dynamic debug framework), and shows you how to use Kprobes. Memory-related bugs tend to be a nightmare – two chapters are packed with tools and techniques devoted to debugging them. When the kernel gifts you an Oops, how exactly do you interpret it to be able to debug the underlying issue? We've got you covered. Concurrency tends to be an inherently complex topic, so a chapter on lock debugging will help you to learn precisely what data races are, including using KCSAN to detect them. Some thorny issues, both debug- and performance-wise, require detailed kernel-level tracing; you'll learn to wield the impressive power of Ftrace and its frontends. You'll also discover how to handle kernel lockups, hangs, and the dreaded kernel panic, as well as leverage the venerable GDB tool within the kernel (KGDB), along with much more. By the end of this book, you will have at your disposal a wide range of powerful kernel debugging tools and techniques, along with a keen sense of when to use which. What you will learn • Explore instrumentation-based printk along with the powerful dynamic debug framework • Use static and dynamic Kprobes to trap into kernel/module functions • Catch kernel memory defects with KASAN, UBSAN, SLUB debug, and kmemleak • Interpret an Oops in depth and precisely identify it's source location • Understand data races and use KCSAN to catch evasive concurrency defects • Leverage Ftrace and trace-cmd to trace the kernel flow in great detail • Write a custom kernel panic handler and detect kernel lockups and hangs • Use KGDB to single-step and debug kernel/module source code Who this book is for This book is for Linux kernel developers, module/driver authors, and testers interested in debugging and enhancing their Linux systems at the level of the kernel. System administrators who want to understand and debug the internal infrastructure of their Linux kernels will also find this book useful. A good grasp on C programming and the Linux command line is necessary. Some experience with kernel (module) development will help you follow along.

Debugging Strategies For .NET Developers Darin Dillon, 2008-01-01 Debugging Strategies for .NET Developers teaches developers how to think about debugging in Microsoft .NET rather than with the specific tools. Author Darin Dillon describes debugging concepts, such as assertions and logging, and immediately follows each discussion with an example from his experiences of when that technique was used to solve a real-world bug. While other debugging books focus on obscure techniques for advanced users, this book is a highly readable exploration that conveys the basic thought process of debugging, as well as the specific techniques and when to apply those techniques.

Debugging by Thinking Robert C. Metzger, 2004 Debugging by Thinking: A Multi-Disciplinary Approach is the first book to apply the wisdom of six disciplines-logic, mathematics, psychology, safety analysis, computer science, and engineering-to the problem of debugging. It uses the methods of literary detectives such as Sherlock Holmes, the techniques of mathematical problem solving, the results of research into the cognitive psychology of human error, the root cause analyses of safety experts, the compiler analyses of computer science, and the processes of modern engineering to define a systematic approach to identifying and correcting software errors. * Language Independent Methods: Examples are given in Java and C++ * Complete source code shows actual bugs, rather than contrived

examples * Examples are accessible with no more knowledge than a course in Data Structures and Algorithms requires
* A thought process diary shows how the author actually resolved the problems as they occurred

Debugging Systems-on-Chip Bart Vermeulen, Kees Goossens, 2014-07-14 This book describes an approach and supporting infrastructure to facilitate debugging the silicon implementation of a System-on-Chip (SOC), allowing its associated product to be introduced into the market more quickly. Readers learn step-by-step the key requirements for debugging a modern, silicon SOC implementation, nine factors that complicate this debugging task, and a new debug approach that addresses these requirements and complicating factors. The authors' novel communication-centric, scan-based, abstraction-based, run/stop-based (CSAR) debug approach is discussed in detail, showing how it helps to meet debug requirements and address the nine, previously identified factors that complicate debugging silicon implementations of SOC's. The authors also derive the debug infrastructure requirements to support debugging of a silicon implementation of an SOC with their CSAR debug approach. This debug infrastructure consists of a generic on-chip debug architecture, a configurable automated design-for-debug flow to be used during the design of an SOC, and customizable off-chip debugger software. Coverage includes an evaluation of the efficiency and effectiveness of the CSAR approach and its supporting infrastructure, using six industrial SOC's and an illustrative, example SOC model. The authors also quantify the hardware cost and design effort to support their approach.

Debugging with Fiddler Eric Lawrence, 2012-06-15 Fiddler is a Web Debugging Proxy platform that monitors and modifies web traffic. This freeware tool enables developers, testers, and enthusiasts to inspect traffic, set breakpoints, and fiddle with incoming or outgoing data. Fiddler includes powerful event-based scripting, and can be extended using any .NET language. FiddlerCore, the core proxy engine underlying Fiddler, is available to integrate into any .NET application. In this book, you'll learn to fully exploit the power of Fiddler to debug traffic from virtually any web-related application, including Internet Explorer, Google Chrome, Apple Safari, Mozilla Firefox, Opera, and thousands more. You'll see how to debug HTTPS traffic, and use Fiddler with popular devices like iPhone/iPod/iPad, Windows Phone, and others. After exploring the hundreds of built-in features, you'll learn to extend Fiddler using the FiddlerScript engine or build your own applications atop the FiddlerCore class library.

The Debugger's Handbook J.F. DiMarzio, 2016-04-19 For today's programmers, it is impossible to foresee every input, every usage scenario, and every combination of applications that can cause errors when run simultaneously. Given all of these unknowns, writing absolutely bug-free code is unachievable. But it is possible, with the right knowledge, to produce nearly bug-free code and The Debugger's H

Debugging David J. Agans, 2002-09-23 When the pressure is on to resolve an elusive software or hardware glitch, what's needed is a cool head courtesy of a set of rules guaranteed to work on any system, in any circumstance. Written in a frank but engaging style, this book provides simple, foolproof principles guaranteed to help find any bug quickly. Recognized tech expert and author David Agans changes the way you think about debugging, making those

pesky problems suddenly much easier to find and fix. Agans identifies nine simple, practical rules that are applicable to any software application or hardware system, which can help detect any bug, no matter how tricky or obscure. Illustrating the rules with real-life bug-detection war stories, Debugging shows you how to: Understand the system: how perceiving the roadmap can hasten your journey Quit thinking and look: when hands-on investigation can't be avoided Isolate critical factors: why changing one element at a time can be an essential tool Keep an audit trail: how keeping a record of the debugging process can win the day Whether the system or program you're working on has been designed wrong, built wrong, or used wrong, Debugging helps you think correctly about bugs, so the problems virtually reveal themselves.

Inside Windows Debugging Tarik Soulati,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

Debug It! : Find, Repair, and Prevent Bugs in Your Code Paul Butcher,2009

The Art of Debugging with GDB, DDD, and Eclipse Norman Matloff,Peter Jay Salzman,2008-09-15 Debugging is crucial to successful software development, but even many experienced programmers find it challenging. Sophisticated debugging tools are available, yet it may be difficult to determine which features are useful in which situations. The Art of Debugging is your guide to making the debugging process more efficient and effective. The Art of Debugging illustrates the use three of the most popular debugging tools on Linux/Unix platforms: GDB, DDD, and Eclipse. The text-command based GDB (the GNU Project Debugger) is included with most distributions. DDD is a popular GUI front end for GDB, while Eclipse provides a complete integrated development environment. In addition to offering specific advice for debugging with each tool, authors Norm Matloff and Pete Salzman cover general strategies for improving the process of finding and fixing coding errors, including how to: –Inspect variables and data structures –Understand segmentation faults and core dumps –Know why your program crashes or throws exceptions –Use features like catchpoints, convenience variables, and artificial arrays –Avoid common debugging pitfalls Real world examples of coding errors help to clarify the authors' guiding principles, and coverage of complex topics like thread, client-server, GUI, and parallel programming debugging will make you even more proficient. You'll also learn how to prevent errors in the first place with text editors, compilers, error reporting, and static code

checkers. Whether you dread the thought of debugging your programs or simply want to improve your current debugging efforts, you'll find a valuable ally in *The Art of Debugging*.

Advanced .NET Debugging Mario Hewardt, 2009-11-09 "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

How Debuggers Work Jonathan B. Rosenberg, 1996 A total guide to debuggers: what they do, how they work, and how to use them to produce better programs Debuggers are the magnifying glass, the microscope, the logic analyzer, the profiler, and the browser with which a program can be examined.—Jonathan B. Rosenberg Debuggers are an indispensable tool in the development process. In fact, during the course of the average software project, more hours are spent debugging software than in compiling code. Yet, not many programmers really know how to constructively interpret the results they get back from debuggers. And even fewer know what makes these complex suites of algorithms and data structures tick. Now in this extremely accessible guide, Jonathan B. Rosenberg demystifies debuggers for programmers and shows them how to make better use of debuggers in their next projects. Taking a hands-on, problem-solving approach to a complex subject, Rosenberg explains how debuggers work and why programmers use them. Most importantly, he provides practical discussions of debugger algorithms and procedures for their use, accompanied by many practical examples. The author also discusses a wide variety of systems applications, from Microsoft's Win32 debug API to a large parallel architecture. Visit our Web site at: <http://www.wiley.com/compbooks/>

DEBUG - An Extension to Current Online Debugging Techniques Thomas G. Evans,D. Lucille Darley,1965 A method for online assembly-language debugging which greatly simplifies several of the bookkeeping tasks characteristically associated with that process has been developed and implemented in a program for the UNIVAC M-460 computer at Air Force Cambridge Research Laboratories. With this program, an online user may insert or delete (in symbolic assembly language) any number of lines at any point in his previously assembled program in core, with the remainder of the program being relocated appropriately.

Debugging Linux Systems (Digital Short Cut) Sreekrishnan Venkateswaran,2009-11-03 Debugging Linux Systems discusses the main tools available today to debug 2.6 Linux Kernels. We start by exploring the seemingly esoteric operations of the Kernel Debugger (KDB), Kernel GNU DeBugger (KGDB), the plain GNU DeBugger (GDB), and JTAG debuggers. We then investigate Kernel Probes, a feature that lets you intrude into a kernel function and extract debug information or apply a medicated patch. Analyzing a crash dump can yield clues for postmortem analysis of kernel crashes or hangs, so we take a look at Kdump, a serviceability tool that collects a system dump after spawning a new kernel. Profiling points you to code regions that burn more CPU cycles, so we learn to use the OProfile kernel profiler and the gprof application profiler to sense the presence of code bottlenecks. Because tracing provides insight into behavioral problems that manifest during interactions between different code modules, we delve into the Linux Trace Toolkit, a system designed for high-volume trace capture. The section “Debugging Embedded Linux” takes a tour of the I/O interfaces commonly found on embedded hardware, such as flash memory, serial port, PCMCIA, Secure Digital media, USB, RTC, audio, video, touch screen, and Bluetooth, and provides pointers to debug the associated device drivers. We also pick up some board-level debugging skills with the help of a case study. The section “Debugging Network Throughput” takes you through some device driver design issues and protocol implementation characteristics that can affect the horsepower of your network interface card. We end the shortcut by examining several options available in the kernel configuration menu that can emit valuable debug information.

Post-Silicon Validation and Debug Prabhat Mishra,Farimah Farahmandi,2018-09-01 This book provides a comprehensive coverage of System-on-Chip (SoC) post-silicon validation and debug challenges and state-of-the-art solutions with contributions from SoC designers, academic researchers as well as SoC verification experts. The readers will get a clear understanding of the existing debug infrastructure and how they can be effectively utilized to verify and debug SoCs.

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