Debugger

Diomidis Spinellis

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/

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.

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® VistaTM and 64-bit debugging, they address emerging topics head-on–and nothing is ever oversimplified or glossed over!

Inside Windows Debugging Tarik Soulami,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

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

Advanced Debugging Methods Raimondas Lencevicius,2012-09-07 Object relationships in modern software systems are becoming increasingly numerous and complex, and program errors due to violations of object relationships are difficult to detect. Programmers need new tools that allow them to explore objects in a large system more efficiently and to detect broken object relationships instantaneously. Such tools incorporate approaches used in such areas as data visualization, pattern matching and extraction, database querying, active databases, and rule-based programming. The query-based debugging approach developed by the author of this book is another powerful yet efficient tool to be added to the developer's tool chest. Advanced Debugging Methods presents practice and tools for debugging computer programs. This book proposes new powerful approaches that simplify the daunting task of debugging complex software systems. Although debugging has been addressed in numerous research papers, many of its methods have yet to be explored in a book-length format. This book helps to fill this gap by presenting an overview of existing debugging tools with motivating examples and case studies, as well as presenting new, state-of-the-art debugging methods. Advanced Debugging

Methods will be of use to software developers looking for tools to be applied in cutting edge practice; system architects looking at the relationship between software design and debugging; tools and programming language researchers looking for new ideas in run-time tool implementation as well as detailed descriptions of advanced implementations; and university professors and graduate students who will use this book as supplementary reading for graduate courses in programming tools, language implementation, and advanced object-oriented systems. Advanced Debugging Methods is also a handy reference of currently existing debugging methodologies as well as a springboard for cutting-edge research to simplify the difficult task of debugging and to facilitate the development of more robust software systems.

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.

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

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 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.

Debugging with GDB Richard Stallman,Roland Pesch,Stan Shebs,2002

Debugging with GDB Richard M. Stallman,Cygnus

Support,1996

Perl Debugger Pocket Reference Richard Foley,2004-01-23 Most Perl programmers know about the Perl debugger--the nifty little built-in utility that you can use to fully debug any programs that you write. Inside the interactive debugger environment, you're prompted for commands that let you examine your source code, set breakpoints, dump out function call stacks, change values of variables, and much more. It's so convenient that some programmers run it just to test out Perl constructs as they create a program. But although it's on their radar, not many Perl programmers take the time to master the debugger. That's where the Perl Debugger Pocket Reference comes in. This little book provides a quick and convenient path to mastery of the Perl debugger and its commands. Written by a core member of the Perl debugger development team, it's an ideal quick reference to debugger commands, as well as a detailed tutorial on how to get started. The Perl Debugger Pocket Reference provides complete coverage in a conveniently small package. Maybe you write code so clean you never have to look at it twice. Or perhaps you'd rather focus your energies on writing clean code, rather than learning about the debugger. But if you need to learn about the Perl debugger in a hurry, the Perl Debugger Pocket Reference is the book you'll want to have close by. And you can always keep a copy on hand to share with programmers who need it more than you do. O'Reilly's Pocket References have become a favorite among programmers everywhere. By providing a wealth of important details in a concise, well-organized format, these handy books deliver just what you need to complete the task at hand. When you've reached a sticking point in your work and need to get to a solution quickly, the new Perl Debugger Pocket Reference will get you back on the right track.

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 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.

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

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 SOCs. 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 SOCs and an illustrative, example SOC model. The authors also quantify the hardware cost and design effort to support their approach.

DBUG Christopher A. Titus,Jonathan A. Titus,1978

Mastering Turbo Debugger Tom Swan,1990 This book is for accomplished IBM PC MS DOS programmers who have mastered Pascal, C or assembly language and who need useful guidelines for

quickly finding and fixing the bugs in their code. It features the latest release of Borland's award-winning Turbo Debugger and covers mouse support, bac tracing, TSR debugging and more.

Debugging Microsoft® .NET 2.0 Applications John Robbins,2009 Debugging, Tuning & Testing .NET 2.0 Applications deals with computers/software.

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