

SOLARIS INTERNALS

Core Kernel Components

Jim Mauro and Richard McDougall

Sun Microsystems Press
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Solaris Internals Core Kernel Architecture

Pranabananda Chakraborty



Solaris Internals Core Kernel Architecture:

Solaris Internals Jim Mauro, Richard McDougall, 2001 Offers expert guidance in performance tuning memory analysis sizing Also covers Kernel organization and process

Solaris Internals Richard McDougall, Jim Mauro, 2006-07-10 The Solaris Internals volumes are simply the best and most comprehensive treatment of the Solaris and OpenSolaris Operating Environment Any person using Solaris in any capacity would be remiss not to include these two new volumes in their personal library With advanced observability tools in Solaris like DTrace you will more often find yourself in what was previously unchartable territory Solaris Internals Second Edition provides us a fantastic means to be able to quickly understand these systems and further explore the Solaris architecture especially when coupled with OpenSolaris source availability Jarod Jenson chief systems architect Aeysis The Solaris Internals volumes by Jim Mauro and Richard McDougall must be on your bookshelf if you are interested in in depth knowledge of Solaris operating system internals and architecture As a senior Unix engineer for many years I found the first edition of Solaris Internals the only fully comprehensive source for kernel developers systems programmers and systems administrators The new second edition with the companion performance and debugging book is an indispensable reference set containing many useful and practical explanations of Solaris and its underlying subsystems including tools and methods for observing and analyzing any system running Solaris 10 or OpenSolaris Marc Strahl senior UNIX engineer Solaris Internals Second Edition describes the algorithms and data structures of all the major subsystems in the Solaris 10 and OpenSolaris kernels The text has been extensively revised since the first edition with more than 600 pages of new material Integrated Solaris tools and utilities including DTrace MDB kstat and the process tools are used throughout to illustrate how the reader can observe the Solaris kernel in action The companion volume Solaris Performance and Tools extends the examples contained here and expands the scope to performance and behavior analysis Coverage includes Virtual and physical memory Processes threads and scheduling File system framework and UFS implementation Networking TCP IP implementation Resource management facilities and zones The Solaris Internals volumes make a superb reference for anyone using Solaris 10 and OpenSolaris

Operating Systems Pranabananda Chakraborty, 2023-11-22 This text demystifies the subject of operating systems by using a simple step by step approach from fundamentals to modern concepts of traditional uniprocessor operating systems in addition to advanced operating systems on various multiple processor platforms and also real time operating systems RTOSs While giving insight into the generic operating systems of today its primary objective is to integrate concepts techniques and case studies into cohesive chapters that provide a reasonable balance between theoretical design issues and practical implementation details It addresses most of the issues that need to be resolved in the design and development of continuously evolving rich diversified modern operating systems and describes successful implementation approaches in the form of abstract models and algorithms This book is primarily intended for use in undergraduate courses in any discipline and also for a substantial

portion of postgraduate courses that include the subject of operating systems It can also be used for self study Key Features Exhaustive discussions on traditional uniprocessor based generic operating systems with figures tables and also real life implementations of Windows UNIX Linux and to some extent Sun Solaris Separate chapter on security and protection a grand challenge in the domain of today s operating systems describing many different issues including implementation in modern operating systems like UNIX Linux and Windows Separate chapter on advanced operating systems detailing major design issues and salient features of multiple processor based operating systems including distributed operating systems Cluster architecture a low cost base substitute for true distributed systems is explained including its classification merits and drawbacks Separate chapter on real time operating systems containing fundamental topics useful concepts and major issues as well as a few different types of real life implementations Online Support Material is provided to negotiate acute page constraint which is exclusively a part and parcel of the text delivered in this book containing the chapter wise topic wise detail explanation with representative figures of many important areas for the completeness of the narratives Operating System M. Naghibzadeh,2005 Operating System is the most essential program of all without which it becomes cumbersome to work with a computer It is the interface between the hardware and computer users making the computer a pleasant device to use The Operating System Concepts and Techniques clearly defines and explains the concepts process responsibility creation living and termination thread responsibility creation living and termination multiprogramming multiprocessing scheduling memory management non virtual and virtual inter process communication synchronization busy wait based semaphore based and message based deadlock and starvation Real life techniques presented are based on UNIX Linux and contemporary Windows The book has briefly discussed agent based operating systems macro kernel microkernel extensible kernels distributed and real time operating systems The book is for everyone who is using a computer but is still not at ease with the way the operating system manages programs and available resources in order to perform requests correctly and speedily High school and university students will benefit the most as they are the ones who turn to computers for all sorts of activities including email Internet chat education programming research playing games etc It is especially beneficial for university students of Information Technology Computer Science and Engineering Compared to other university textbooks on similar subjects this book is downsized by eliminating lengthy discussions on subjects that only have historical value

Technical Communication and the World Wide Web Carol Lipson,Michael Day,2005-05-06 Technical Communication and the World Wide Web is a collective of sixteen chapters designed to help technical communication teachers prepare their students for twenty first century writing for the World Wide Web by providing advice and examples in **Information Security and Cryptology** Helger Lipmaa,Moti Yung,Donghai Lin,2006-11-09 This book constitutes the refereed proceedings of the Second SKLOIS Conference on Information Security and Cryptology Inscrypt 2006 held in Beijing China in November December 2006 The 23 revised full papers cover digital signature schemes sequences and stream ciphers symmetric key

cryptography cryptographic schemes network security access control computer and applications security as well as Web and media security

UNIX Systems Programming Kay A. Robbins, Steven Robbins, 2003 bull Learn UNIX essentials with a concentration on communication concurrency and multithreading techniques bull Full of ideas on how to design and implement good software along with unique projects throughout bull Excellent companion to Stevens Advanced UNIX System Programming

Linux Kernel Development Robert Love, 2010 This practical guide helps programmers better understand the Linux kernel and to write and develop kernel code It provides in depth coverage of all the major subsystems and features of the Linux 2.6 kernel

File System Forensic Analysis Brian Carrier, 2005-03-17 The Definitive Guide to File System Analysis Key Concepts and Hands on Techniques Most digital evidence is stored within the computer's file system but understanding how file systems work is one of the most technically challenging concepts for a digital investigator because there exists little documentation Now security expert Brian Carrier has written the definitive reference for everyone who wants to understand and be able to testify about how file system analysis is performed Carrier begins with an overview of investigation and computer foundations and then gives an authoritative comprehensive and illustrated overview of contemporary volume and file systems Crucial information for discovering hidden evidence recovering deleted data and validating your tools Along the way he describes data structures analyzes example disk images provides advanced investigation scenarios and uses today's most valuable open source file system analysis tools including tools he personally developed Coverage includes Preserving the digital crime scene and duplicating hard disks for dead analysis Identifying hidden data on a disk's Host Protected Area HPA Reading source data Direct versus BIOS access dead versus live acquisition error handling and more Analyzing DOS Apple and GPT partitions BSD disk labels and Sun Volume Table of Contents using key concepts data structures and specific techniques Analyzing the contents of multiple disk volumes such as RAID and disk spanning Analyzing FAT NTFS Ext2 Ext3 UFS1 and UFS2 file systems using key concepts data structures and specific techniques Finding evidence File metadata recovery of deleted files data hiding locations and more Using The Sleuth Kit TSK Autopsy Forensic Browser and related open source tools When it comes to file system analysis no other book offers this much detail or expertise Whether you're a digital forensics specialist incident response team member law enforcement officer corporate security specialist or auditor this book will become an indispensable resource for forensic investigations no matter what analysis tools you use

The Practice of System and Network Administration Thomas A. Limoncelli, Christina J. Hogan, Strata R. Chalup, 2007-07-05 The first edition of The Practice of System and Network Administration introduced a generation of system and network administrators to a modern IT methodology Whether you use Linux Unix or Windows this newly revised edition describes the essential practices previously handed down only from mentor to protégé This wonderfully lucid often funny cornucopia of information introduces beginners to advanced frameworks valuable for their entire career yet is structured to help even the most advanced experts through difficult projects The book's four major sections build your

knowledge with the foundational elements of system administration These sections guide you through better techniques for upgrades and change management catalog best practices for IT services and explore various management topics Chapters are divided into The Basics and The Icing When you get the Basics right it makes every other aspect of the job easier such as automating the right things first The Icing sections contain all the powerful things that can be done on top of the basics to wow customers and managers Inside you ll find advice on topics such as The key elements your networks and systems need in order to make all other services run better Building and running reliable scalable services including web storage email printing and remote access Creating and enforcing security policies Upgrading multiple hosts at one time without creating havoc Planning for and performing flawless scheduled maintenance windows Managing superior helpdesks and customer care Avoiding the temporary fix trap Building data centers that improve server uptime Designing networks for speed and reliability Web scaling and security issues Why building a backup system isn t about backups Monitoring what you have and predicting what you will need How technically oriented workers can maintain their job s technical focus and avoid an unwanted management role Technical management issues including morale organization building coaching and maintaining positive visibility Personal skill techniques including secrets for getting more done each day ethical dilemmas managing your boss and loving your job System administration salary negotiation It s no wonder the first edition received Usenix SAGE s 2005 Outstanding Achievement Award This eagerly anticipated second edition updates this time proven classic Chapters reordered for easier navigation Thousands of updates and clarifications based on reader feedback Plus three entirely new chapters Web Services Data Storage and Documentation

Solaris Infrastructure Engineering: Advanced Administration, Performance Tuning, and Resilient Architecture for Enterprise Servers William E Clark, 2025-09-13 Solaris Infrastructure Engineering Advanced Administration Performance Tuning and Resilient Architecture for Enterprise Servers is a definitive hands on guide for IT professionals who design build and operate mission critical Solaris environments It delivers a deep technical exploration of system architecture kernel internals and advanced networking while providing clear practical instruction on process management memory optimization and the Service Management Facility to help engineers architect predictable high performance systems Beyond foundational operations this volume integrates contemporary infrastructure practices virtualization Solaris Zones and container strategies alongside DevOps automation and infrastructure as code workflows Detailed examples show how to incorporate configuration management and CI CD with tools like Puppet and Ansible and present resilient design patterns for high availability and disaster recovery using real world scenarios that prepare teams for large scale production deployments The book also excels in actionable troubleshooting and performance engineering teaching readers to leverage DTrace sophisticated log analysis and capacity planning to diagnose and resolve complex issues Comprehensive coverage of security hardening monitoring and clustered architectures ensures engineers can both secure and scale Solaris installations making this an indispensable reference for launching new deployments or

revitalizing legacy systems in enterprise environments Solaris System Administration and Engineering Richard Johnson, 2025-05-28 Solaris System Administration and Engineering Solaris System Administration and Engineering is a comprehensive and expertly structured guide designed for IT professionals who demand mastery over Solaris environments. Spanning the intricacies of system architecture, kernel internals, and advanced networking, this book provides a deep technical dive into Solaris core components. Each chapter unpacks critical areas from the subtleties of process management and memory optimization to the sophisticated mechanics behind Solaris Service Management Facility, empowering engineers to make informed and strategic decisions when architecting reliable systems. Moving beyond foundational system operations, this authoritative volume seamlessly integrates modern themes such as virtualization, containerization, and DevOps automation. Readers will find practical guidance on leveraging Solaris Zones and integrating emerging container technologies alongside coverage of configuration management, CI/CD best practices, and infrastructure as code with tools like Puppet and Ansible. Real-world scenarios and resilient design patterns are woven throughout, ensuring the reader is prepared for high availability, disaster recovery, and seamless service delivery across even the most demanding enterprise environments. Rounding out its breadth, the book excels in actionable troubleshooting, performance engineering, and robust security methodologies. Detailed explanations and hands-on best practices illuminate monitoring with DTrace, advanced log analysis, system hardening benchmarks, and the operational nuances of clustered deployments. Whether launching new Solaris installations or optimizing legacy platforms, Solaris System Administration and Engineering stands as an indispensable reference for building, securing, and operating mission-critical Unix infrastructure.

Systems Performance Brendan Gregg, 2014 The Complete Guide to Optimizing Systems Performance Written by the winner of the 2013 LISA Award for Outstanding Achievement in System Administration, Large-scale enterprise cloud and virtualized computing systems have introduced serious performance challenges. Now internationally renowned performance expert Brendan Gregg has brought together proven methodologies, tools, and metrics for analyzing and tuning even the most complex environments. Systems Performance: Enterprise and the Cloud focuses on Linux, RHEL, and Unix R performance while illuminating performance issues that are relevant to all operating systems. You'll gain deep insight into how systems work and perform and learn methodologies for analyzing and improving system and application performance. Gregg presents examples from bare metal systems and virtualized cloud tenants running Linux-based Ubuntu, RHEL, Fedora, RHEL, CentOS, and the illumos-based Joyent R SmartOS™ and OmniTI OmniOS®. He systematically covers modern systems performance, including the traditional analysis of CPUs, memory, disks, and networks, and new areas including cloud computing and dynamic tracing. This book also helps you identify and fix the unknown unknowns of complex performance bottlenecks that emerge from elements and interactions you were not aware of. The text concludes with a detailed case study showing how a real cloud customer issue was analyzed from start to finish. Coverage includes Modern performance analysis and tuning terminology, concepts, models, methods, and

techniques Dynamic tracing techniques and tools including examples of DTrace SystemTap and perf Kernel internals uncovering what the OS is doing Using system observability tools interfaces and frameworks Understanding and monitoring application performance Optimizing CPUs processors cores hardware threads caches interconnects and kernel scheduling Memory optimization virtual memory paging swapping memory architectures busses address spaces and allocators File system I/O including caching Storage devices controllers disk I/O workloads RAID and kernel I/O Network related performance issues protocols sockets interfaces and physical connections Performance implications of OS and hardware based virtualization and new issues encountered with cloud computing Benchmarking getting accurate results and avoiding common mistakes This guide is indispensable for anyone who operates enterprise or cloud environments system network database and web admins developers and other professionals For students and others new to optimization it also provides exercises reflecting Gregg's extensive instructional experience

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

Understanding the Linux Kernel Daniel P. Bovet, Marco

Cesati, 2005-11-17 In order to thoroughly understand what makes Linux tick and why it works so well on a wide variety of systems you need to delve deep into the heart of the kernel The kernel handles all interactions between the CPU and the external world and determines which programs will share processor time in what order It manages limited memory so well that hundreds of processes can share the system efficiently and expertly organizes data transfers so that the CPU isn't kept waiting any longer than necessary for the relatively slow disks The third edition of Understanding the Linux Kernel takes you on a guided tour of the most significant data structures algorithms and programming tricks used in the kernel Probing beyond superficial features the authors offer valuable insights to people who want to know how things really work inside their machine Important Intel specific features are discussed Relevant segments of code are dissected line by line But the book covers more than just the functioning of the code it explains the theoretical underpinnings of why Linux does things the way it does This edition of the book covers Version 2.6 which has seen significant changes to nearly every kernel subsystem particularly in the areas of memory management and block devices The book focuses on the following topics Memory management including file buffering process swapping and Direct memory Access DMA The Virtual Filesystem layer and the Second and Third Extended Filesystems Process creation and scheduling Signals interrupts and the essential interfaces to device drivers Timing Synchronization within the kernel Interprocess Communication IPC Program execution Understanding the Linux Kernel will acquaint you with all the inner workings of Linux but it's more than just an academic exercise You'll

learn what conditions bring out Linux's best performance and you'll see how it meets the challenge of providing good system response during process scheduling file access and memory management in a wide variety of environments This book will help you make the most of your Linux system

UNIX in a Nutshell Arnold Robbins, 2005 As an open operating system Unix can be improved on by anyone and everyone individuals companies universities and more As a result the very nature of Unix has been altered over the years by numerous extensions formulated in an assortment of versions Today Unix encompasses everything from Sun's Solaris to Apple's Mac OS X and more varieties of Linux than you can easily name The latest edition of this bestselling reference brings Unix into the 21st century It's been reworked to keep current with the broader state of Unix in today's world and highlight the strengths of it

Operating System Concepts, 10e Abridged Print Companion Abraham Silberschatz, Peter B. Galvin, Greg Gagne, 2018-01-11 The tenth edition of Operating System Concepts has been revised to keep it fresh and up to date with contemporary examples of how operating systems function as well as enhanced interactive elements to improve learning and the student's experience with the material It combines instruction on concepts with real world applications so that students can understand the practical usage of the content End of chapter problems exercises review questions and programming exercises help to further reinforce important concepts New interactive self assessment problems are provided throughout the text to help students monitor their level of understanding and progress A Linux virtual machine including C and Java source code and development tools allows students to complete programming exercises that help them engage further with the material The Print Companion includes all of the content found in a traditional text book organized the way you would expect it but without the problems

DTrace Brendan Gregg, Jim Mauro, 2011-03-18 The Oracle Solaris DTrace feature revolutionizes the way you debug operating systems and applications Using DTrace you can dynamically instrument software and quickly answer virtually any question about its behavior Now for the first time there's a comprehensive authoritative guide to making the most of DTrace in any supported UNIX environment from Oracle Solaris to OpenSolaris Mac OS X and FreeBSD Written by key contributors to the DTrace community DTrace teaches by example presenting scores of commands and easy to adapt downloadable D scripts These concise examples generate answers to real and useful questions and serve as a starting point for building more complex scripts Using them you can start making practical use of DTrace immediately whether you're an administrator developer analyst architect or support professional The authors fully explain the goals techniques and output associated with each script or command Drawing on their extensive experience they provide strategy suggestions checklists and functional diagrams as well as a chapter of advanced tips and tricks You'll learn how to Write effective scripts using DTrace's D language Use DTrace to thoroughly understand system performance Expose functional areas of the operating system including I/O filesystems and protocols Use DTrace in the application and database development process Identify and fix security problems with DTrace Analyze the operating system kernel Integrate DTrace into source code Extend DTrace with

other tools This book will help you make the most of DTrace to solve problems more quickly and efficiently and build systems that work faster and more reliably

UNIX Filesystems Steve D. Pate, 2003-02-03 Das erste Buch das sich UNIX Filesystemen widmet und dabei alle Versionen von UNIX und Linux Dateisystemen behandelt Die meisten Fortune 1000 Unternehmen benutzen noch immer UNIX f r ihre Mission Critical Daten und verwenden oft gleichzeitig Windows f r nicht kritische Daten UNIX Filesystems enth lt mehr Details zu I O Dateiaspekten bei der UNIX Programmierung als jedes andere Buch auf dem Markt Es diskutiert dar ber hinaus auch performance und adminstrationsbezogene Themen die sich auf Backup Technologien konzentrieren Mit VERITAS und OpenVision Beispielen

Solaris Systems Programming Rich Teer, 2005 With this comprehensive text Solaris practitioners will find all the information they need as they face and overcome significant challenges of their everyday work Real world case studies poignant examples and illustrative diagrams are rolled into this thorough reference

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