

Intel Solid State Drives

Dhabaleswar K. Panda,Xiaoyi Lu,Dipti Shankar

Inside Solid State Drives (SSDs) Rino Micheloni,Alessia Marelli,Kam Eshghi,2018-07-11 The revised second edition of this respected text provides a state-of-the-art overview of the main topics relating to solid state drives (SSDs), covering NAND flash memories, memory controllers (including booth hardware and software), I/O interfaces (PCIe/SAS/SATA), reliability, error correction codes (BCH and LDPC), encryption, flash signal processing and hybrid storage. Updated throughout to include all recent work in the field, significant changes for the new edition include: A new chapter on flash memory errors and data recovery procedures in SSDs for reliability and lifetime improvement Updated coverage of SSD Architecture and PCI Express Interfaces moving from PCIe Gen3 to PCIe Gen4 and including a section on NVMe over fabric (NVMe) An additional section on 3D flash memories An update on standard reliability procedures for SSDs Expanded coverage of BCH for SSDs, with a specific section on detection A new section on non-binary Low-Density Parity-Check (LDPC) codes, the most recent advancement in the field A description of randomization in the protection of SSD data against attacks, particularly relevant to 3D architectures The SSD market is booming, with many industries placing a huge effort in this space, spending billions of dollars in R&D and product development. Moreover, flash manufacturers are now moving to 3D architectures, thus enabling an even higher level of storage capacity. This book takes the reader through the fundamentals and brings them up to speed with the most recent developments in the field, and is suitable for advanced students, researchers and engineers alike.

Solid-State-Drives (SSDs) Modeling Rino Micheloni,2017-03-28 This book introduces simulation tools and strategies for complex systems of solid-state-drives (SSDs) which consist of a flash multi-core microcontroller plus NAND flash memories. It provides a broad overview of the most popular simulation tools, with special focus on open source solutions. VSSIM, NANDFlashSim and DiskSim are benchmarked against performances of real SSDs under different traffic workloads. PROs and CONs of each simulator are analyzed, and it is clearly indicated which kind of answers each of them can give and at a what price. It is explained, that speed and precision do not go hand in hand, and it is important to understand when to simulate what, and with which tool. Being able to simulate SSD's performances is mandatory to meet time-to-market, together with product cost and quality. Over the last few years the authors developed an advanced simulator named "SSDExplorer" which has been used to evaluate multiple phenomena with great accuracy, from QoS (Quality Of Service) to Read Retry, from LDPC Soft Information to power, from Flash aging to FTL. SSD simulators are also addressed in a broader context in this book, i.e. the analysis of what happens when SSDs are connected to the OS (Operating System) and to the end-user application (for example, a database search). The authors walk the reader through the full simulation flow of a real system-level by combining SSD Explorer with the QEMU virtual platform. The reader will be impressed by the level of know-how and the combination of models that such simulations are asking for.

HWM ,2008-10 Singapore's leading tech magazine gives its readers the power to decide with its informative articles and in-depth reviews.

Green and Sustainable Computing: ,2012-11-07 Since its first volume in 1960, *Advances in Computers* has presented detailed coverage of innovations in computer hardware, software, theory, design, and applications. It has also provided contributors with a medium in which they can explore their subjects in greater depth and breadth than journal articles usually allow. As a result, many articles have become standard references that continue to be of significant, lasting value in this rapidly expanding field. In-depth surveys and tutorials on new computer technology Well-known authors and researchers in the field Extensive bibliographies with most chapters Many of the volumes are devoted to single themes or subfields of computer science

Understanding Solid State Drives Bertram Underwood,2023-08-04 Unravel the mysteries of Hard Disk Drives' sleeker, faster and more robust counterpart with *Understanding Solid State Drives: The Future of Storage*. Penned by the seasoned technology journalist and digital storage expert, Bertram Underwood, this essential guide simplifies the intricate world of Solid State Drives (SSDs). The exhaustive yet engaging account expounds on the emergence of SSDs and their transformational journey from Hard Disk Drives. It navigates readers through the technical intricacies, components, and internal workings of SSDs, minus the techno-babble. Get gripping insights into the evident benefits of SSDs, including their game-changing speed and unparalleled durability. Discover the various types and sizes of SSDs and interface options, as well as an overview of data recovery. Further, the report offers a glimpse into the significant role SSDs play in enhancing gaming experiences and their crucial enterprise applications. Lastly, dive into the exciting innovations and future trends in SSD technology. Whether you're a tech enthusiast eager to expand your knowledge or a casual user seeking to keep up with tech trends, *Understanding Solid State Drives: The Future of Storage* is your gateway into the untapped potential of SSDs. Join Bertram Underwood as he envisions the future of storage, providing a compelling case for why SSDs are stepping into the limelight as the data storage solution of tomorrow.

Intellectual Property Rights, Development, and Catch Up Hiroyuki Odagiri,Akira Goto,Atsushi Sunami,Richard R. Nelson,2010-04-08 For most countries, economic development involves 'catching up' with leading countries. This needs more than physical assets and labour: it requires technological capabilities, educational attainment, entrepreneurship, and development of the necessary institutional infrastructure, including intellectual property rights, particularly patents.

Upgrading and Repairing PCs Scott Mueller,2009-12-10 For 20 years, *Upgrading and Repairing PCs* has been the industry's #1 guide to PC hardware: the single source for reliable, step-by-step information on identifying and fixing problems, adding hardware, optimizing performance, and building new PCs from scratch. Now, this 19th Edition has been completely updated to focus on today's technologies and today's maintenance challenges! From processors and motherboards, memory to storage, video to power, and networking to Internet connectivity, it's all here: technical details, practical insights, and step-by-step solutions to difficult problems. Updates include new CPUs like the Intel Core i Series and AMD's Phenom family...solid state drives (SSDs) and hard disk drives...motherboard form factors, chipsets, power supplies, DDR3 memory, Windows 7 readiness, and a whole lot more! Your guide, Scott Mueller, has taught thousands in his legendary personal seminars and millions more through his books and videos. Nobody knows more about choosing, installing, troubleshooting, repairing, and maintaining PC hardware. Whether you're a professional technician, a small business owner who doesn't want to pay for service calls, or a home PC enthusiast, this is the one book you need! NEW IN THIS EDITION Intel's and AMD's hottest new processors, including the Intel Core i Series and AMD Phenom family The latest PC system designs and form factors, including the new mini-ITX and DTX motherboard form factors State-of-the-art graphics cards, GPUs, and chipsets from NVIDIA and ATI/AMD Terabyte-class hard disks, solid state drives, and other data storage innovations Revamped coverage of building PCs from scratch—from selecting and assembling hardware to BIOS Setup and troubleshooting

Cloud Data Centers and Cost Modeling Caesar Wu,Rajkumar Buyya,2015-02-27 *Cloud Data Centers and Cost Modeling* establishes a framework for strategic decision-makers to facilitate the development of cloud data centers. Just as building a house requires a clear understanding of the blueprints, architecture, and costs of the project; building a cloud-based data center requires similar knowledge. The authors take a theoretical and practical approach, starting with the key questions to help uncover needs and clarify project scope. They then demonstrate probability tools to test and support decisions, and provide processes that resolve key issues. After laying a foundation of cloud concepts and definitions, the book addresses data center creation, infrastructure development, cost modeling, and simulations in decision-making, each part building on the previous. In this way the authors bridge technology, management, and infrastructure as a service, in one complete guide to data centers that facilitates educated decision making. Explains how to balance cloud computing functionality with data center efficiency Covers key requirements for power management, cooling, server planning, virtualization, and storage management Describes advanced methods for modeling cloud computing cost including Real Option Theory and Monte Carlo Simulations Blends theoretical and practical discussions with insights for developers, consultants, and analysts considering data center development

Artificial Intelligence and Machine Learning for EDGE Computing Rajiv Pandey,Sunil Kumar Khatri,Neeraj Kumar Singh,Parul Verma,2022-04-26 Artificial Intelligence and Machine Learning for Predictive

and Analytical Rendering in Edge Computing focuses on the role of AI and machine learning as it impacts and works alongside Edge Computing. Sections cover the growing number of devices and applications in diversified domains of industry, including gaming, speech recognition, medical diagnostics, robotics and computer vision and how they are being driven by Big Data, Artificial Intelligence, Machine Learning and distributed computing, may it be Cloud Computing or the evolving Fog and Edge Computing paradigms. Challenges covered include remote storage and computing, bandwidth overload due to transportation of data from End nodes to Cloud leading in latency issues, security issues in transporting sensitive medical and financial information across larger gaps in points of data generation and computing, as well as design features of Edge nodes to store and run AI/ML algorithms for effective rendering. Provides a reference handbook on the evolution of distributed systems, including Cloud, Fog and Edge Computing Integrates the various Artificial Intelligence and Machine Learning techniques for effective predictions at Edge rather than Cloud or remote Data Centers Provides insight into the features and constraints in Edge Computing and storage, including hardware constraints and the technological/architectural developments that shall overcome those constraints

Big Data Benchmarks, Performance Optimization, and Emerging Hardware Jianfeng Zhan,Rui Han,Chuliang Weng,2014-11-10 This book constitutes the thoroughly revised selected papers of the 4th and 5th workshops on Big Data Benchmarks, Performance Optimization, and Emerging Hardware, BPOE 4 and BPOE 5, held respectively in Salt Lake City, in March 2014, and in Hangzhou, in September 2014. The 16 papers presented were carefully reviewed and selected from 30 submissions. Both workshops focus on architecture and system support for big data systems, such as benchmarking; workload characterization; performance optimization and evaluation; emerging hardware.

Energy-Aware System Design Chong-Min Kyung,Sungjoo Yoo,2011-06-17 Power consumption becomes the most important design goal in a wide range of electronic systems. There are two driving forces towards this trend: continuing device scaling and ever increasing demand of higher computing power. First, device scaling continues to satisfy Moore's law via a conventional way of scaling (More Moore) and a new way of exploiting the vertical integration (More than Moore). Second, mobile and IT convergence requires more computing power on the silicon chip than ever. Cell phones are now evolving towards mobile PC. PCs and data centers are becoming commodities in house and a must in industry. Both supply enabled by device scaling and demand triggered by the convergence trend realize more computation on chip (via multi-core, integration of diverse functionalities on mobile SoCs, etc.) and finally more power consumption incurring power-related issues and constraints. *Energy-Aware System Design: Algorithms and Architectures* provides state-of-the-art ideas for low power design methods from circuit, architecture to software level and offers design case studies in three fast growing areas of mobile storage, biomedical and security. Important topics and features: - Describes very recent advanced issues and methods for energy-aware design at each design level from circuit and architecture to algorithm level, and also covering important blocks including low power main memory subsystem and on-chip network at architecture level - Explains efficient power conversion and delivery which is becoming important as heterogeneous power sources are adopted for digital and non-digital parts - Investigates 3D die stacking emphasizing temperature awareness for better perspective on energy efficiency - Presents three practical energy-aware design case studies; novel storage device (e.g., solid state disk), biomedical electronics (e.g., cochlear and retina implants), and wireless surveillance camera systems. Researchers and engineers in the field of hardware and software design will find this book an excellent starting point to catch up with the state-of-the-art ideas of low power design.

Digital Privacy and Security Using Windows Nihad Hassan,Rami Hijazi,2017-07-02 Use this hands-on guide to understand the ever growing and complex world of digital security. Learn how to protect yourself from digital crime, secure your communications, and become anonymous online using sophisticated yet practical tools and techniques. This book teaches you how to secure your online identity and personal devices, encrypt your digital data and online communications, protect cloud data and Internet of Things (IoT), mitigate social engineering attacks, keep your purchases secret, and conceal your digital footprint. You will understand best practices to harden your operating system and delete digital traces using the most widely used operating system, Windows. *Digital Privacy and Security Using Windows* offers a comprehensive list of practical digital privacy tutorials in addition to being a complete repository of free online resources and tools assembled in one place. The book helps you build a robust defense from electronic crime and corporate surveillance. It covers general principles of digital privacy and how to configure and use various security applications to maintain your privacy, such as TOR, VPN, and BitLocker. You will learn to encrypt email communications using Gpg4win and Thunderbird. What You'll Learn Know the various parties interested in having your private data Differentiate between government and corporate surveillance, and the motivations behind each one Understand how online tracking works technically Protect digital data, secure online communications, and become anonymous online Cover and destroy your digital traces using Windows OS Secure your data in transit and at rest Be aware of cyber security risks and countermeasures Who This Book Is For End users, information security professionals, management, infosec students

Mastering Proxmox Wasim Ahmed,2017-11-16 Discover real world scenarios for Proxmox troubleshooting and become an expert cloud builder About This Book Formulate Proxmox-based solutions and set up virtual machines of any size while gaining expertise even on the most complex multi-cluster setups Master the skills needed to analyze, monitor, and troubleshoot real-world virtual environments This is the most up-to-date title on mastering Proxmox, with examples based on the new Linux Kernel 4.10.15 and Debian Stretch (9.x) Who This Book Is For This book is for Linux and system administrators and professionals working in IT teams who would like to design and implement an enterprise-quality virtualized environment using Proxmox. Some knowledge of networking and virtualization concepts is assumed. What You Will Learn Install basic Proxmox VE nodes and get to know the Proxmox GUI Get to know Proxmox's internal structure and mechanics Create and manage KVM or LXC-based virtual machines Understand advanced virtual networks Configure high availability Proxmox nodes Integrate Ceph big data storage with the Proxmox hypervisor Plan a large virtual environment for cloud-based services Discover real-world scenarios for Proxmox troubleshooting In Detail Proxmox is an open source server virtualization solution that has enterprise-class features for managing virtual machines, for storage, and to virtualize both Linux and Windows application workloads. You'll begin with a refresher on the advanced installation features and the Proxmox GUI to familiarize yourself with the Proxmox VE hypervisor. Then, you'll move on to explore Proxmox under the hood, focusing on storage systems, such as Ceph, used with Proxmox. Moving on, you'll learn to manage KVM virtual machines, deploy Linux containers fast, and see how networking is handled in Proxmox. You'll also learn how to protect a cluster or a VM with a firewall and explore the new high availability features introduced in Proxmox VE 5.0. Next, you'll dive deeper into the backup/restore strategy and see how to properly update and upgrade a Proxmox node. Later, you'll learn how to monitor a Proxmox cluster and all of its components using Zabbix. Finally, you'll discover how to recover Promox from disaster strikes through some real-world examples. By the end of the book, you'll be an expert at making Proxmox work in production environments with minimal downtime. Style and approach This book walks you through every aspect of virtualization using Proxmox using a practical, scenario-based approach that features best practices and all the weaponry you need to succeed when building virtual environments with Proxmox 5.0.

The Routledge Companion to Risk, Crisis and Security in Business Kurt J. Engemann,2018-06-14 Aware that a single crisis event can devastate their business, managers must be prepared for the worst from an expansive array of threats. The Routledge Companion to Risk, Crisis and Security in Business comprises a professional and scholarly collection of work in this critical field. Risks come in many varieties, and there is a growing concern for organizations to respond to the challenge. Businesses can be severely impacted by natural and man-made disasters including: floods, earthquakes, tsunami, environmental threats, terrorism, supply chain risks, pandemics, and white-collar crime. An organization's resilience is dependent not only on their own system security and infrastructure, but also on the wider infrastructure providing health and safety, utilities, transportation, and communication. Developments in risk security and management knowledge offer a path towards resilience and recovery through effective leadership in crisis situations. The growing body of knowledge in research and methodologies is a basis for decisions to safeguard people and assets, and to ensure the survivability of an organization from a crisis. Not only can businesses become more secure through risk management, but an effective program can also facilitate innovation and afford new opportunities. With chapters written by an international selection of leading experts, this book fills a crucial gap in our current

knowledge of risk, crisis and security in business by exploring a broad spectrum of topics in the field. Edited by a globally-recognized expert on risk, this book is a vital reference for researchers, professionals and students with an interest in current scholarship in this expanding discipline.

Operating Systems Remzi H. Arpaci-Dusseau,Andrea C. Arpaci-Dusseau,2018-09 This book is organized around three concepts fundamental to OS construction: virtualization (of CPU and memory), concurrency (locks and condition variables), and persistence (disks, RAIDS, and file systems--Back cover.

Database Systems for Advanced Applications Hiroyuki Kitagawa,Yoshiharu Ishikawa,Qing Li,Chiemi Watanabe,2010-03-18 This two volume set LNCS 5981 and LNCS 5982 constitutes the refereed proceedings of the 15th International Conference on Database Systems for Advanced Applications, DASFAA 2010, held in Tsukuba, Japan, in April 2010. The 39 revised full papers and 16 revised short papers presented together with 3 invited keynote papers, 22 demonstration papers, 6 industrial papers, and 2 keynote talks were carefully reviewed and selected from 285 submissions. The papers of the first volume are organized in topical sections on P2P-based technologies, data mining technologies, XML search and matching, graphs, spatial databases, XML technologies, time series and streams, advanced data mining, query processing, Web, sensor networks and communications, information management, as well as communities and Web graphs. The second volume contains contributions related to trajectories and moving objects, skyline queries, privacy and security, data streams, similarity search and event processing, storage and advanced topics, industrial, demo papers, and tutorials and panels.

High-Performance Big Data Computing Dhabaleswar K. Panda,Xiaoyi Lu,Dipti Shankar,2022-08-02 An in-depth overview of an emerging field that brings together high-performance computing, big data processing, and deep lLearning. Over the last decade, the exponential explosion of data known as big data has changed the way we understand and harness the power of data. The emerging field of high-performance big data computing, which brings together high-performance computing (HPC), big data processing, and deep learning, aims to meet the challenges posed by large-scale data processing. This book offers an in-depth overview of high-performance big data computing and the associated technical issues, approaches, and solutions. The book covers basic concepts and necessary background knowledge, including data processing frameworks, storage systems, and hardware capabilities; offers a detailed discussion of technical issues in accelerating big data computing in terms of computation, communication, memory and storage, codesign, workload characterization and benchmarking, and system deployment and management; and surveys benchmarks and workloads for evaluating big data middleware systems. It presents a detailed discussion of big data computing systems and applications with high-performance networking, computing, and storage technologies, including state-of-the-art designs for data processing and storage systems. Finally, the book considers some advanced research topics in high-performance big data computing, including designing high-performance deep learning over big data (DLoBD) stacks and HPC cloud technologies.

Data Deduplication for High Performance Storage System Dan Feng,2022-06-02 This book comprehensively introduces data deduplication technologies for storage systems. It first presents the overview of data deduplication including its theoretical basis, basic workflow, application scenarios and its key technologies, and then the book focuses on each key technology of the deduplication to provide an insight into the evolution of the technology over the years including chunking algorithms, indexing schemes, fragmentation reduced schemes, rewriting algorithm and security solution. In particular, the state-of-the-art solutions and the newly proposed solutions are both elaborated. At the end of the book, the author discusses the fundamental trade-offs in each of deduplication design choices and propose an open-source deduplication prototype. The book with its fundamental theories and complete survey can guide the beginners, students and practitioners working on data deduplication in storage system. It also provides a compact reference in the perspective of key data deduplication technologies for those researchers in developing high performance storage solutions.

The Power of Resilience Yossi Sheffi,2017-03-24 How the best companies prepare for and manage modern vulnerabilities—from cybersecurity risks to climate change: new tools, processes and organizations for developing corporate resilience. A catastrophic earthquake is followed by a tsunami that inundates the coastline, and around the globe manufacturing comes to a standstill. State-of-the-art passenger jets are grounded because of a malfunctioning part. A strike halts shipments through a major port. A new digital device decimates the sales of other brands and sends established firms to the brink of bankruptcy. The interconnectedness of the global economy today means that unexpected events in one corner of the globe can ripple through the world's supply chain and affect customers everywhere. In this book, Yossi Sheffi shows why modern vulnerabilities call for innovative processes and tools for creating and embedding corporate resilience and risk management. Sheffi offers fascinating case studies that illustrate how companies have prepared for, coped with, and come out stronger following disruption—from the actions of Intel after the 2011 Japanese tsunami to the disruption in the “money supply chain” caused by the 2008 financial crisis. Sheffi, author of the widely read *The Resilient Enterprise*, focuses here on deep tier risks as well as corporate responsibility, cybersecurity, long-term disruptions, business continuity planning, emergency operations centers, detection, and systemic disruptions. Supply chain risk management, Sheffi shows, is a balancing act between taking on the risks involved in new products, new markets, and new processes—all crucial for growth—and the resilience created by advanced risk management.

Applied Cryptography and Network Security Feng Bao,Pierangela Samarati,Jianying Zhou,2012-06-14 This book constitutes the refereed proceedings of the 10th International Conference on Applied Cryptography and Network Security, ACNS 2012, held in Singapore, in June 2012. The 33 revised full papers included in this volume were carefully reviewed and selected from 192 submissions. They are organized in topical sessions on authentication, key management, block ciphers, identity-based cryptography, cryptographic primitives, cryptanalysis, side channel attacks, network security, Web security, security and privacy in social networks, security and privacy in RFID systems, security and privacy in cloud systems, and security and privacy in smart grids.

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