

## Chelsio Iwarp Installation And Setup Guide

This book constitutes the refereed proceedings of the 13th International Conference on High-Performance Computing, HiPC 2006, held in Bangalore, India in December 2006. The 52 revised full papers presented together with the abstracts of 7 invited talks were carefully reviewed and selected from 335 submissions. The papers are organized in topical sections on scheduling and load balancing, architectures, network and distributed algorithms, application software, network services, applications, ad-hoc networks, systems software, sensor networks and performance evaluation, as well as routing and data management algorithms.

These two volumes present the proceedings of the International Conference on Technology and Instrumentation in Particle Physics 2017 (TIPP2017), which was held in Beijing, China from 22 to 26 May 2017. Gathering selected articles on the basis of their quality and originality, it highlights the latest developments and research trends in detectors and instrumentation for all branches of particle physics, particle astrophysics and closely related fields. This is the first volume, and focuses on the main themes Gaseous detectors, Semiconductor detectors, Experimental detector systems, Calorimeters, Particle identification, Photon

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detectors, Dark Matter Detectors and Neutrino Detectors. The TIP2017 is the fourth in a series of international conferences on detectors and instrumentation, held under the auspices of the International Union of Pure and Applied Physics (IUPAP). The event brings together experts from the scientific and industrial communities to discuss their current efforts and plan for the future. The conference's aim is to provide a stimulating atmosphere for scientists and engineers from around the world.

at the distributed virtual Program Committee meeting. Each paper's review recommendations were carefully checked for consistency; in many instances, the Vice Chairs read the papers themselves when the reviews did not seem sufficient to make a decision. Throughout the reviewing process, I received a tremendous amount of help and advice from General Co-chair Manish Parashar, Steering Chair Viktor Prasanna, and last year's Program Chair Srinivas Aluru; I am very grateful to them. My thanks also go to the Publications Chair Sushil Prasad for his outstanding efforts in putting the proceedings together. Finally, I thank all the attendees a very enjoyable and informative meeting. December 2008 P.

Sadayappan Message from the General Co-chairs and the Vice General Co-chairs On behalf of the organizers of the 15th International Conference on High-

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Performance Computing(HiPC), it is our pleasure to present these proceedings and we hope you will find them exciting and rewarding.

The HiPC call for papers, once again, received an overwhelming response, attracting 317 submissions from 27 countries. P. Sadayappan, the Program Chair, and the Program Committee worked with remarkable dedication to put together an outstanding technical program consisting of the 46 papers that appear in these proceedings.

Linux Kernel Networking takes you on a guided in-depth tour of the current Linux networking implementation and the theory behind it. Linux kernel networking is a complex topic, so the book won't burden you with topics not directly related to networking. This book will also not overload you with cumbersome line-by-line code walkthroughs not directly related to what you're searching for; you'll find just what you need, with in-depth explanations in each chapter and a quick reference at the end of each chapter. Linux Kernel Networking is the only up-to-date reference guide to understanding how networking is implemented, and it will be indispensable in years to come since so many devices now use Linux or operating systems based on Linux, like Android, and since Linux is so prevalent in the data center arena, including Linux-based virtualization technologies like Xen and KVM.

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**ABSTRACT** As computation continues to move into the cloud, the computing platform of interest no longer resembles a pizza box or a refrigerator, but a warehouse full of computers. These new large datacenters are quite different from traditional hosting facilities of earlier times and cannot be viewed simply as a collection of co-located servers. Large portions of the hardware and software resources in these facilities must work in concert to efficiently deliver good levels of Internet service performance, something that can only be achieved by a holistic approach to their design and deployment. In other words, we must treat the datacenter itself as one massive warehouse-scale computer (WSC). We describe the architecture of WSCs, the main factors influencing their design, operation, and cost structure, and the characteristics of their software base. We hope it will be useful to architects and programmers of today's WSCs, as well as those of future many-core platforms which may one day implement the equivalent of today's WSCs on a single board. **NOTES FOR THE SECOND EDITION** After nearly four years of substantial academic and industrial developments in warehouse-scale computing, we are delighted to present our first major update to this lecture. The increased popularity of public clouds has made WSC software techniques relevant to a larger pool of programmers since our first edition. Therefore, we expanded Chapter 2 to reflect our better understanding of WSC

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software systems and the toolbox of software techniques for WSC programming. In Chapter 3, we added to our coverage of the evolving landscape of wimpy vs. brawny server trade-offs, and we now present an overview of WSC interconnects and storage systems that was promised but lacking in the original edition. Thanks largely to the help of our new co-author, Google Distinguished Engineer Jimmy Clidas, the material on facility mechanical and power distribution design has been updated and greatly extended (see Chapters 4 and 5). Chapters 6 and 7 have also been revamped significantly. We hope this revised edition continues to meet the needs of educators and professionals in this area.

Continuing its commitment to developing and delivering industry-leading storage technologies, IBM® introduces Data Reduction Pools (DRP) and Deduplication powered by IBM Spectrum™ Virtualize, which are innovative storage features that deliver essential storage efficiency technologies and exceptional ease of use and performance, all integrated into a proven design. This book discusses Data Reduction Pools (DRP) and Deduplication and is intended for experienced storage administrators who are fully familiar with IBM Spectrum Virtualize, SAN Volume Controller, and the Storwize family of products.

Network Storage: Tools and Technologies for Storing Your Company's Data explains the changes occurring in storage, what they mean, and how to negotiate

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the minefields of conflicting technologies that litter the storage arena, all in an effort to help IT managers create a solid foundation for coming decades. The book begins with an overview of the current state of storage and its evolution from the network perspective, looking closely at the different protocols and connection schemes and how they differentiate in use case and operational behavior. The book explores the software changes that are motivating this evolution, ranging from data management, to in-stream processing and storage in virtual systems, and changes in the decades-old OS stack. It explores Software-Defined Storage as a way to construct storage networks, the impact of Big Data, high-performance computing, and the cloud on storage networking. As networks and data integrity are intertwined, the book looks at how data is split up and moved to the various appliances holding that dataset and its impact. Because data security is often neglected, users will find a comprehensive discussion on security issues that offers remedies that can be applied. The book concludes with a look at technologies on the horizon that will impact storage and its networks, such as NVDIMMs, The Hybrid Memory Cube, VSANs, and NAND Killers. Puts all the new developments in storage networking in a clear perspective for near-term and long-term planning Offers a complete overview of storage networking, serving as a go-to resource for creating a coherent

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implementation plan Provides the details needed to understand the area, and clears a path through the confusion and hype that surrounds such a radical revolution of the industry

This scenario-focused title provides concise technical guidance and insights for troubleshooting and optimizing networking with Hyper-V. Written by experienced virtualization professionals, this little book packs a lot of value into a few pages, offering a lean read with lots of real-world insights and best practices for Hyper-V networking optimization in Windows Server 2012. Focused guide extends your knowledge and capabilities with Hyper-V networking in Windows Server 2012 Shares hands-on insights from a team of Microsoft virtualization experts Provides pragmatic troubleshooting and optimization guidance from the field

IBM® FlashSystem 9100 combines the performance of flash and Non-Volatile Memory Express (NVMe) with the reliability and innovation of IBM FlashCore® technology and the rich features of IBM Spectrum™ Virtualize — all in a powerful 2U storage system. Providing intensive data driven multi-cloud storage capacity, FlashSystem 9100 is deeply integrated with the software-defined capabilities of IBM Spectrum Storage™, which allows you to easily add the multi-cloud solutions that best support your business. In this IBM Redbooks® publication, we discuss the product's features and planning steps, architecture, installation, configuration, and hints and tips.

Up-to-the-Minute, Complete Guidance for Developing Embedded Solutions with Linux

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Linux has emerged as today's #1 operating system for embedded products. Christopher Hallinan's *Embedded Linux Primer* has proven itself as the definitive real-world guide to building efficient, high-value, embedded systems with Linux. Now, Hallinan has thoroughly updated this highly praised book for the newest Linux kernels, capabilities, tools, and hardware support, including advanced multicore processors. Drawing on more than a decade of embedded Linux experience, Hallinan helps you rapidly climb the learning curve, whether you're moving from legacy environments or you're new to embedded programming. Hallinan addresses today's most important development challenges and demonstrates how to solve the problems you're most likely to encounter. You'll learn how to build a modern, efficient embedded Linux development environment, and then utilize it as productively as possible. Hallinan offers up-to-date guidance on everything from kernel configuration and initialization to bootloaders, device drivers to file systems, and BusyBox utilities to real-time configuration and system analysis. This edition adds entirely new chapters on UDEV, USB, and open source build systems. Tour the typical embedded system and development environment and understand its concepts and components. Understand the Linux kernel and userspace initialization processes. Preview bootloaders, with specific emphasis on U-Boot. Configure the Memory Technology Devices (MTD) subsystem to interface with flash (and other) memory devices. Make the most of BusyBox and latest open source development tools. Learn from expanded and updated



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coverage of kernel debugging. Build and analyze real-time systems with Linux. Learn to configure device files and driver loading with UDEV. Walk through detailed coverage of the USB subsystem. Introduces the latest open source embedded Linux build systems. Reference appendices include U-Boot and BusyBox commands.

Continuing its commitment to developing and delivering industry-leading storage technologies, IBM® introduces the IBM FlashSystem® solution that is powered by IBM Spectrum® Virtualize V8.4. This innovative storage offering delivers essential storage efficiency technologies and exceptional ease of use and performance, all integrated into a compact, modular design that is offered at a competitive, midrange price. The solution incorporates some of the top IBM technologies that are typically found only in enterprise-class storage systems, which raises the standard for storage efficiency in midrange disk systems. This cutting-edge storage system extends the comprehensive storage portfolio from IBM and can help change the way organizations address the ongoing information explosion. This IBM Redbooks® publication introduces the features and functions of an IBM Spectrum Virtualize V8.4 system through several examples. This book is aimed at pre-sales and post-sales technical support and marketing and storage administrators. It helps you understand the architecture, how to implement it, and how to take advantage of its industry-leading functions and features.

A resilient storage network is an environment where data is always available for the needs of the business. This book explains the components, as well as how to design

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and implement a resilient storage network for workgroup, departmental, and enterprise environments. Storage networks are an enabling capability combining technology and best practices to provide the foundation to support information technology systems and applications. Storage networks can be of various sizes, shapes, and technologies. This book shows you how to implement a resilient storage network infrastructure using different technologies including ATM, DWDM, FCIP, Fibre Channel, FICON, iFCP, InfiniBand, IP, iSCSI, Life Cycle Management, NAS, Object Based Storage, RAID, RDMA, Remote Mirroring, Replication, SAN, SCSI, SMI-S, SONET/SDH, Storage Services, Tape, Virtualization, and Volume Managers. \*Important information is clarified and put into context to separate myths and realities \*Covers storage networking technologies (hardware, software, networks) and practices \*Numerous tips and recommendations allow the reader to quickly understand best practices \*Checklists, templates and examples show potential solutions

This introduction to networking on Linux now covers firewalls, including the use of ipchains and Netfilter, masquerading, and accounting. Other new topics in this second edition include Novell (NCP/IPX) support and INN (news administration).

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The Fiber Optic Reference Guide offers readers a solid understanding of the principles of fiber optic technology, especially as it relates to telecommunications, from its early days to developing future trends. Using a minimum of jargon and a wealth of illustrations, this book provides the underlying principles of fiber optics as well as essential practical applications. The third edition is updated to include expanded sections on light emitters, semiconductor optical amplifiers, Bragg gratings, and more systems design considerations. Fiber optics plays a key role in communications, as well as in broadcast and cable systems. Engineers working with fiber optics as well as newcomers to the industry will find the third edition of this reference guide invaluable. It will help the reader develop a solid understanding of the underlying principles of this rapidly changing technology as well as its essential practical applications. The text is thoroughly indexed and illustrated.

This IBM® Redpaper™ publication is a comprehensive guide that covers the IBM Power Systems™ LC921 and LC922 (9006-12P and 9006-22P) servers that use the current IBM POWER9™ processor-based technology and supports Linux operating systems (OSes). The objective of this paper is to introduce the offerings and their capacities and available features. These new Linux scale-out systems provide differentiated performance, scalability, and low acquisition cost,

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and include the following features: Superior throughput and performance for high-value Linux workloads. Low acquisition cost through system optimization (industry-standard memory and industry-standard three-year warranty). Rich I/O options in the system unit. There are 12 large form factor (LFF)/small form factor (SFF) bays for 12 SAS/SATA hard disk drives (HDDs) or solid-state drives (SSDs), and four bays that are available for Non-Volatile Memory Express (NVMe) Gen3 adapters. Includes Trusted Platform Module (TPM) 2.0 Nuvoton NPCT650ABAWX through I2C (for secure boot and trusted boot). Integrated MicroSemi PM8069 SAS/SATA 16-port Internal Storage Controller Peripheral Component Interconnect Express (PCIe) 3.0 x8 with RAID 0, 1, 5, and 10 support (no write cache). Integrated Intel XL710 Quad Port 10 GBase-T PCIe 3.0 x8 UIO built-in local area network (LAN) (one shared management port). Dedicated 1 Gb Intelligent Platform Management Interface (IPMI) port. This publication is for professionals who want to acquire a better understanding of IBM Power Systems products. The intended audience includes: Clients Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors (ISVs) SYSTOR'17: International Systems and Storage Conference May 22, 2017-May 24, 2017 Haifa, Israel. You can view more information about this proceeding and

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all of ACMs other published conference proceedings from the ACM Digital Library: <http://www.acm.org/dl>.

Software-Defined Data Infrastructures Essentials provides fundamental coverage of physical, cloud, converged, and virtual server storage I/O networking technologies, trends, tools, techniques, and tradecraft skills. From webscale, software-defined, containers, database, key-value store, cloud, and enterprise to small or medium-size business, the book is filled with techniques, and tips to help develop or refine your server storage I/O hardware, software, and services skills. Whether you are new to data infrastructures or a seasoned pro, you will find this comprehensive reference indispensable for gaining as well as expanding experience with technologies, tools, techniques, and trends. We had a front row seat watching Greg present live in our education workshop seminar sessions for ITC professionals in the Netherlands material that is in this book. We recommend this amazing book to expand your converged and data infrastructure knowledge from beginners to industry veterans. —Gert and Frank Brouwer, Brouwer Storage Consultancy Software-Defined Data Infrastructures Essentials provides the foundational building blocks to improve your craft in several areas including applications, clouds, legacy, and more. IT professionals, as well as sales professionals and support personnel, stand to gain a great deal by reading this

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book.—Mark McSherry, Oracle Regional Sales Manager Looking to expand your data infrastructure IQ? From CIOS to operations, sales to engineering, this book is a comprehensive reference, a must read for IT infrastructure professionals, beginners to seasoned experts.—Tom Becchetti, Advisory Systems Engineer  
Greg Schulz has provided a complete 'toolkit' for storage management along with the background and framework for the storage or data infrastructure professional or those aspiring to become one.—Greg Brunton, Experienced Storage and Data Management Professional

A major revision of the classic TCP/IP bestseller that has sold more than 162,000 units! \* \*W. Richard Stevens' legendary TCP/IP guide, now updated by top network protocol developer and instructor Kevin Fall. \*Shows how each protocol actually operates, and explains why they work that way. \*New coverage includes RPC, access control, authentication, privacy, NFS, SMB/CIFS, DHCP, NAT, firewalls, email, Web, web services, wireless, wireless security, and much more  
More than 162,000 networking professionals have relied on W. Richard Stevens' classic TCP/IP Illustrated, Volume 1 to gain the detailed understanding of TCP/IP they need to be effective. Now, the world's leading TCP/IP bestseller has been thoroughly updated to reflect a new generation of TCP/IPbased networking technologies. TCP/IP Illustrated, Volume 1, Second Edition doesn't just describe

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protocols: it enables readers to observe how these protocols operate under different conditions, using publicly available tools, and explains why key design decisions were made. The result: readers gain a deep understanding of how TCP/IP protocols function, and why they function that way. Now thoroughly updated by long-time networking expert Kevin Fall, this brand-new second edition's extensive new coverage includes: \* Remote procedure call. \* Identity management (access control / authentication). \* Network and transport layer security (authentication / privacy). \* File access protocols, including NFS and SMB/CIFS. \* Host initialization and DHCP. \* NAT and firewalls. \* E-mail. \* Web and web services. \* Wireless and wireless security. \* New tools, including Ethereal, nmap and netcat

The amount of data being generated, processed, and stored has reached unprecedented levels. Even during the recent economic crisis, there has been no slow down or information recession. Instead, the need to process, move, and store data has only increased. Consequently, IT organizations are looking to do more with what they have while supporting gr

The FreeBSD Handbook is a comprehensive FreeBSD tutorial and reference. It covers installation, day-to-day use of FreeBSD, and much more, such as the Ports collection, creating a custom kernel, security topics, the X Window System,

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how to use FreeBSD's Linux binary compatibility, and how to upgrade your system from source using the 'make world' command, to name a few.

This IBM® Redbooks® publication is a detailed technical guide to the IBM System Storage™ SAN Volume Controller, which is powered by IBM Spectrum® Virtualize V8.3.1. IBM SAN Volume Controller is a virtualization appliance solution that maps virtualized volumes that are visible to hosts and applications to physical volumes on storage devices. Each server within the storage area network (SAN) has its own set of virtual storage addresses that are mapped to physical addresses. If the physical addresses change, the server continues running by using the same virtual addresses that it had before. Therefore, volumes or storage can be added or moved while the server is still running. The IBM virtualization technology improves the management of information at the block level in a network, which enables applications and servers to share storage devices on a network.

This IBM® Redbooks® publication provides advice and technical information about optimizing and tuning application code to run on systems that are based on the IBM POWER7® and POWER7+™ processors. This advice is drawn from application optimization efforts across many different types of code that runs under the IBM AIX® and Linux operating systems, focusing on the more



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pervasive performance opportunities that are identified, and how to capitalize on them. The technical information was developed by a set of domain experts at IBM. The focus of this book is to gather the right technical information, and lay out simple guidance for optimizing code performance on the IBM POWER7 and POWER7+ systems that run the AIX or Linux operating systems. This book contains a large amount of straightforward performance optimization that can be performed with minimal effort and without previous experience or in-depth knowledge. This optimization work can:

- Improve the performance of the application that is being optimized for the POWER7 system
- Carry over improvements to systems that are based on related processor chips
- Improve performance on other platforms

The audience of this book is those personnel who are responsible for performing migration and implementation activities on IBM POWER7-based servers, which includes system administrators, system architects, network administrators, information architects, and database administrators (DBAs).

Since its release in summer 1994, the Message Passing Interface (MPI) specification has become a standard for message-passing libraries for parallel computations. These volumes present a complete specification of both the MPI-1 and MPI-2 Standards.

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This book describes the complete iWarp system, from instruction-level parallelism to final parallel applications. The authors present a range of issues that must be considered to get a real system into practice. foreword by Gordon Bell and afterword by H.T. Kung Although researchers have proposed many mechanisms and theories for parallel systems, only a few have actually resulted in working computing platforms. The iWarp is an experimental parallel system that was designed and built jointly by Carnegie Mellon University and Intel Corporation. The system is based on the idea of integrating a VLIW processor and a sophisticated fine-grained communication system on a single chip. This book describes the complete iWarp system, from instruction-level parallelism to final parallel applications. The authors present a range of issues that must be considered to get a real system into practice. They also provide a start-to-finish history of the project, including what was done right and what was done wrong, that will be of interest to anyone who studies or builds computer systems. An In-Depth View of Hardware Issues, Programming Practices, and Implementation of Key Methods Exploring the challenges of parallel programming from the perspective of quantum chemists, Parallel Computing in Quantum Chemistry thoroughly covers topics relevant to designing and implementing parallel quantum chemistry programs. Focusing on good parallel program design

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and performance analysis, the first part of the book deals with parallel computer architectures and parallel computing concepts and terminology. The authors discuss trends in hardware, methods, and algorithms; parallel computer architectures and the overall system view of a parallel computer; message-passing; parallelization via multi-threading; measures for predicting and assessing the performance of parallel algorithms; and fundamental issues of designing and implementing parallel programs. The second part contains detailed discussions and performance analyses of parallel algorithms for a number of important and widely used quantum chemistry procedures and methods. The book presents schemes for the parallel computation of two-electron integrals, details the Hartree–Fock procedure, considers the parallel computation of second-order Møller–Plesset energies, and examines the difficulties of parallelizing local correlation methods. Through a solid assessment of parallel computing hardware issues, parallel programming practices, and implementation of key methods, this invaluable book enables readers to develop efficient quantum chemistry software capable of utilizing large-scale parallel computers.

This book introduces the reader to the basic concepts of the generation and manipulation of synchrotron light, its interaction with matter, and the application of synchrotron light in the “classical” techniques, while including some of the most

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modern technological developments. As much as possible, complicated mathematical derivations and formulas are avoided. A more heuristic approach is adopted, whereby the general physical reasoning behind the equations is highlighted. Key features: A general introduction to synchrotron radiation and experimental techniques using synchrotron radiation Contains many detailed “worked examples” from the literature Of interest for a broad audience - synchrotrons are possibly one of the best examples of multidisciplinary research Four-colour presentation throughout

Mathematics of Computing -- Parallelism.

IBM® has announced native Internet Protocol (IP) replication using Bridgeworks SANSlide technology with its IBM System Storage® SAN Volume Controller (SVC), IBM Storwize® V7000, IBM Storwize V5000 and Storwize V3700 virtualized storage systems. This combination of SANSlide and the SVC/Storwize family provides a powerful solution for clients who require efficient, IP-based replication over long distances. This certification gives SVC/Storwize clients a fully supported, transparent technology that includes unmatched levels of performance and reliability. With the SANSlide protocol acceleration technology, it is now possible to replicate data across continents in a cost-efficient way, with little or no loss in performance. At the same time, bandwidth usage can improve

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to over 95%, rather than the 1% - 5% normally achieved in long-distance IP networks. This IBM Redpaper™ publication shows the steps required to implement this solution efficiently and speedily.

"The book that Microsoft should have written, but didn't." --Jeremy Allison, Samba Team "Your detailed explanations are clear and backed-up with source code--and the numerous bits of humor make a dry subject very enjoyable to read." --J.D. Lindemann, network engineer, Adaptec, Inc. The first developer's guide to Microsoft(R)'s Internet/Intranet file sharing standard For years, developers and administrators have struggled to understand CIFS, Microsoft's poorly documented standard for Internet file sharing. Finally, there is an authoritative, cross-platform guide to CIFS capabilities and behavior. Implementing CIFS not only delivers the priceless knowledge of a Samba Team member dedicated to investigating the inner workings of CIFS, it also identifies and describes crucial specifications and supporting documents. Provides essential information for designing and debugging large Windows(R) and/or Samba networks Offers clear, in-depth introductions to Server Message Block (SMB), NetBIOS over TCP/IP (NBT), browser services, and authentication Drills down into the internals of CIFS, exposing its behavior on the wire and at the desktop--and its strange quirks Presents illustrative code examples throughout

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Reflects years of work reviewing obscure documentation, packet traces, and sourcecode Includes the SNIA CIFS Technical Reference Implementing CIFS will be indispensable to every developer who wants to provide CIFS compatibility--and every administrator or security specialist who needs an in-depth understanding of how it really works.

Proceedings of International Conference on Technology and Instrumentation in Particle Physics 2017Volume 1Springer

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