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OPTIMIZING NFS PERFORMANCE

TUNING AND TROUBLESHOOTING NFS ON HP-UX SYSTEMS

Prentice Hall Professional **This book is targeted at administators who are familiar with the concepts of NFS and have an existing NFS environment that they are trying to tune for performance.**

CUSTOMER RELATIONSHIP MANAGEMENT

GETTING IT RIGHT!

Prentice Hall Professional **An ETHS graduate of 1962 provides a blueprint for customer relationship management in business and technical organizations.**

HALTING THE HACKER

A PRACTICAL GUIDE TO COMPUTER SECURITY

Prentice Hall Professional **Halting the Hacker: A Practical Guide to Computer Security, Second Edition combines unique insight into the mind of the hacker with practical, step-by-step countermeasures for protecting any HP-UX, Linux, or UNIX system. Fully updated for today's key threats, tools, and solutions, this book shows you how hackers work and the best ways to respond: not just what to do, but why. Through dozens of real-world examples, you'll master the skills and mindset to protect yourself against today's attacks -- and tomorrow's.**

MOBILIZE YOUR ENTERPRISE

ACHIEVING COMPETITIVE ADVANTAGE THROUGH WIRELESS TECHNOLOGY

Prentice Hall Professional **Discusses wireless technology and its deployment, methods to alter business processes to take advantage of mobility, and portable solutions for concerns such as application gateways and security.**

J2EE AND JAX

DEVELOPING WEB APPLICATIONS AND WEB SERVICES

Prentice Hall Professional **CD-ROM contains: Source code -- Tools for developing and deploying Web services.**

HP-UX 11I SYSTEMS ADMINISTRATION HANDBOOK AND TOOLKIT

Prentice Hall Professional **HP-UX 11i System Administration Handbook and Toolkit, second edition, is your singlesource for everything HP-UX administrators need to know! Now updated to cover new HP-UX 11i andpartitioning enhancements, plus every essential UNIX command. Covers installation, boot, kernel,devices, users, groups, SAM, Veritas VM, LVM, optimization, networking, GNOME, auditing, UNIXfile types and commands, vi, and shell programming. Includes extensive new disk partitioningcoverage: vPars, PRM, nPartitions, and MC/ServiceGuard. CD-ROM: new HP-UX performance managementtrialware, sysadmin "Cheat Sheets," and more.**

SYSTEM PERFORMANCE TUNING

HELP FOR UNIX ADMINISTRATORS

"O'Reilly Media, Inc." **System Performance Tuning answers one of the most fundamental questions you can ask about your computer: How can I get it to do more work without buying more hardware? In the current economic downturn, performance tuning takes on a new importance. It allows system administrators to make the best use of existing systems and minimize the purchase of new equipment. Well-tuned systems save money and time that would otherwise be wasted dealing with slowdowns and errors. Performance tuning always involves compromises; unless system administrators know what the compromises are, they can't make intelligent decisions.Tuning is an essential skill for system administrators who face the problem of adapting the speed of a computer system to the speed requirements imposed by the real world. It requires a detailed understanding of the inner workings of the computer and its architecture. System Performance Tuning covers two distinct areas: performance tuning, or the art of increasing performance for a specific application, and capacity planning, or deciding what hardware best fulfills a given role. Underpinning both subjects is the science of computer architecture. This book focuses on the operating system, the underlying hardware, and their interactions. Topics covered include: Real and perceived performance problems, introducing capacity planning and performance monitoring (highlighting their strengths and weaknesses). An integrated description of all the major tools at a system administrator's disposal for tracking down system performance problems. Background on modern memory handling techniques, including the memory-caching filesystem implementations in Solaris and AIX. Updated sections on memory conservation and computing memory requirements. In depth discussion of disk interfaces, bandwidth capacity considerations, and RAID systems. Comprehensive discussion of NFS and greatly expanded discussion of networking. Workload management and code tuning. Special topics such as tuning Web servers for various types of content delivery and developments in cross-machine parallel computing For system administrators who want a hands-on introduction to system performance, this is the book to recommend.**

MANAGING NFS AND NIS

HELP FOR UNIX SYSTEM ADMINISTRATORS

"O'Reilly Media, Inc." **A modern computer system that's not part of a network is even more of an anomaly today than it was when we published the first edition of this book in 1991. But however widespread networks have become, managing a network and getting it to perform well can still be a problem.Managing NFS and NIS, in a new edition based on Solaris 8, is a guide to two tools that are absolutely essential to distributed computing environments: the Network Filesystem (NFS) and the Network Information System (formerly called the "yellow pages" or YP).The Network Filesystem, developed by Sun Microsystems, is fundamental to most Unix networks. It lets systems ranging from PCs and Unix workstations to large mainframes access each other's files transparently, and is the standard method for sharing files between different computer systems.As popular as NFS is, it's a "black box" for most users and administrators. Updated for NFS Version 3, Managing NFS and NIS offers detailed access to what's inside, including: How to plan, set up, and debug an NFS network Using the NFS automounter Diskless workstations PC/NFS A new transport protocol for NFS (TCP/IP) New security options (IPSec and Kerberos V5) Diagnostic tools and utilities NFS client and server tuning NFS isn't really complete without its companion, NIS, a distributed database service for managing the most important administrative files, such as the passwd file and the hosts file. NIS centralizes administration of commonly replicated files, allowing a single change to the database rather than requiring changes on every system on the network.If you are managing a network of Unix systems, or are thinking of setting up a Unix network, you can't afford to overlook this book.**

RED HAT LINUX NETWORKING AND SYSTEM ADMINISTRATION

John Wiley & Sons **Starts with the basics of Red Hat, the leading Linux distribution in the U.S., such as network planning and Red Hat installation and configuration Offers a close look at the new Red Hat Enterprise Linux 4 and Fedora Core 4 releases New chapters cover configuring a database server, creating a VNC server, monitoring performance, providing Web services, exploring SELinux security basics, and exploring desktops Demonstrates how to maximize the use of Red Hat Network, upgrade and customize the kernel, install and upgrade software packages, and back up and restore the file system The four CDs contain the full Fedora Core 4 distribution**

HP-UX 11I TUNING AND PERFORMANCE

Maximize the performance and value of any HP-UX 11i system HP-UX 11i Tuning and Performance takes the guesswork out of maximizing HP-UX 11i performance-so you can quickly maximize the value of any HP-UX system in any environment. Leading HP experts introduce a comprehensive, systematic performance management methodology that addresses every stage in the lifecycle of an HP-UX system. You'll find specific metrics, symptoms and solutions for every key element of an HP-UX 11i system, including hardware, the OS platform, and application development. From start to finish, the emphasis is on practical results-and on understanding the real-world cost/benefit tradeoffs that are central to every tuning project. Coverage includes: A comprehensive optimization methodology, direct from HP's performance labs New optimization opportunities and techniques made possible by HP-UX 11i All-new chapters on network performance and Java performance Rules of thumb for more cost-effective performance management Instrumenting HP-UX 11i systems to accurately reflect reality Choosing the right performance metrics, and using them correctly Key performance tradeoffs in both uniprocessor and SMP environments Practical techniques for resolving CPU, memory, and disk bottlenecks How to make the most of HP-UX specific and generic UNIX performance tools Performance enhancements available through compiler optimization and application profiling Extensive examples from actual HP performance consulting assignments Whether you're an HP-UX 11i sysadmin, netadmin, developer, capacity planner, or performance specialist, this is your complete guide to getting all the performance you paid for!

FOUNDATIONS OF SOFTWARE AND SYSTEM PERFORMANCE ENGINEERING

PROCESS, PERFORMANCE MODELING, REQUIREMENTS, TESTING, SCALABILITY, AND PRACTICE

Addison-Wesley Professional **"If this book had been available to Healthcare.gov's contractors, and they read and followed its life cycle performance processes, there would not have been the enormous problems apparent in that application. In my 40+ years of experience in building leading-edge products, poor performance is the single most frequent cause of the failure or cancellation of software-intensive projects. This book provides techniques and skills necessary to implement performance engineering at the beginning of a project and manage it throughout the product's life cycle. I cannot recommend it highly enough." – Don Shafer, CSDP, Technical Fellow, Athens Group, LLC Poor performance is a frequent cause of software project failure. Performance engineering can be extremely challenging. In Foundations of Software and System Performance Engineering, leading software performance expert Dr. André Bondi helps you create effective performance requirements up front, and then architect, develop, test, and deliver systems that meet them. Drawing on many years of experience at Siemens, AT&T Labs, Bell Laboratories, and two startups, Bondi offers practical guidance for every software stakeholder and development team participant. He shows you how to define and use metrics; plan for diverse workloads; evaluate scalability, capacity, and responsiveness; and test both individual components and entire systems. Throughout, Bondi helps you link performance engineering with everything else you do in the software life cycle, so you can achieve the right performance–now and in the future–at lower cost and with less pain. This guide will help you • Mitigate the business and engineering risk associated with poor system performance • Specify system performance requirements in business and engineering terms • Identify metrics for comparing performance requirements with actual performance • Verify the accuracy of measurements • Use simple mathematical models to make predictions, plan performance tests, and anticipate the impact of changes to the system or the load placed upon it • Avoid common performance and scalability mistakes • Clarify business and engineering needs to be satisfied by given levels of throughput and response time • Incorporate performance engineering into agile processes • Help stakeholders of a system make better performance-related decisions • Manage stakeholders' expectations about system performance throughout the software life cycle, and deliver a software product with quality performance André B. Bondi is a senior staff engineer at Siemens Corp., Corporate Technologies in Princeton, New Jersey. His specialties include performance requirements, performance analysis, modeling, simulation, and testing. Bondi has applied his industrial and academic experience to the solution of performance issues in many problem domains. In addition to holding a doctorate in computer science and a master's in statistics, he is a Certified Scrum Master.**

INTEL XEON PHI COPROCESSOR ARCHITECTURE AND TOOLS

THE GUIDE FOR APPLICATION DEVELOPERS

Apress **Intel® Xeon PhiTM Coprocessor Architecture and Tools: The Guide for Application Developers provides developers a comprehensive introduction and in-depth look at the Intel Xeon Phi coprocessor architecture and the corresponding parallel data structure tools and algorithms used in the various technical computing applications for which it is suitable. It also examines the source code-level optimizations that can be performed to exploit the powerful features of the processor. Xeon Phi is at the heart of world's fastest commercial supercomputer, which thanks to the massively parallel computing capabilities of Intel Xeon Phi processors coupled with Xeon Phi coprocessors attained 33.86 teraflops of benchmark performance in 2013. Extracting such stellar performance in real-world applications requires a sophisticated understanding of the complex interaction among hardware components, Xeon Phi cores, and the applications running on them. In this book, Rezaur Rahman, an Intel leader in the development of the Xeon Phi coprocessor and the optimization of its applications, presents and details all the features of Xeon Phi core design that are relevant to the practice of application developers, such as its vector units, hardware multithreading, cache hierarchy, and host-to-coprocessor communication channels. Building on this foundation, he shows developers how to solve real-world technical computing problems by selecting, deploying, and optimizing the available algorithms and data structure alternatives matching Xeon Phi's hardware characteristics. From Rahman's practical descriptions and extensive code examples, the reader will gain a working knowledge of the Xeon Phi vector instruction set and the Xeon Phi microarchitecture whereby cores execute 512-bit instruction streams in parallel.**

THE BRITISH NATIONAL BIBLIOGRAPHY

MAXIMIZING PERFORMANCE AND SCALABILITY WITH IBM WEBSPHERE

Apress *** Describes the IBM WebSphere versions 4.0 and 5.0 architecture from a nuts and bolts level, giving visibility to the technology and underlying WebSphere platform design * Describes how to proactively manage the performance of an IBM WebSphere v4 or v5 platform * Thorough descriptions of tuning WebSphere with performance and robustness in mind * Teaches the reader how to develop custom IBM WebSphere performance monitoring and management tools**

MANAGING NFS AND NIS

Oreilly & Associates Incorporated Demonstrates two fundamental components of distributed computing in a UNIX environment--the Network File System and the Network Information System--explaining how to plan, set up, protect, and debug UNIX networks.

DRIVING THE POWER OF AIX

PERFORMANCE TUNING ON IBM POWER

Mc PressLlc "Maximize your efforts toward effective performance tuning on AIX on IBM's Power Systems (IBM i, AS/400, iSeries, System i, AIX, and Linux). With detailed information on optimizing your CPU, memory, disk, and network I/O subsystems, along with data on both AIX 5.3 and AIX 6.1, the author gives detailed instructions on how to tune your system effectively, delivering the performance boost you desire. In addition to these topics, chapters on the new AIX 6.1, Linux, and Oracle running on IBM Power Systems are included. Packed with real-world know-how from author Ken Milberg--a 20-year systems administration veteran--this book is intended for systems professionals who need to understand, monitor, and control the factors that affect AIX performance on their servers. It covers systems monitoring and performance tuning on all subsystems as well as time-tested tuning and analysis methodology. The monitoring sections discuss tools that will allow you to immediately gain a quick and dirty view of the health of your system"--Resource description page.

SUN PERFORMANCE AND TUNING

JAVA AND THE INTERNET

Prentice Hall Professional This book is an indispensable reference for developers and administrators who want to maximize the performance of their Sun systems. Revised and updated to cover the latest SPARC and software release (including Solaris 2.6). This book presents a collaboration of configuration and performance information not available anywhere else.

STOCHASTIC RECURSIVE ALGORITHMS FOR OPTIMIZATION

SIMULTANEOUS PERTURBATION METHODS

Springer Stochastic Recursive Algorithms for Optimization presents algorithms for constrained and unconstrained optimization and for reinforcement learning. Efficient perturbation approaches form a thread unifying all the algorithms considered. Simultaneous perturbation stochastic approximation and smooth fractional estimators for gradient- and Hessian-based methods are presented. These algorithms: • are easily implemented; • do not require an explicit system model; and • work with real or simulated data. Chapters on their application in service systems, vehicular traffic control and communications networks illustrate this point. The book is self-contained with necessary mathematical results placed in an appendix. The text provides easy-to-use, off-the-shelf algorithms that are given detailed mathematical treatment so the material presented will be of significant interest to practitioners, academic researchers and graduate students alike. The breadth of applications makes the book appropriate for reader from similarly diverse backgrounds: workers in relevant areas of computer science, control engineering, management science, applied mathematics, industrial engineering and operations research will find the content of value.

SUN USER GROUP TECHNICAL CONFERENCE

PROCEEDINGS : ATLANTA HILTON AND TOWERS, ATLANTA, GEORGIA, JUNE 17-19, 1991

DATA NETWORKS

ROUTING, SECURITY, AND PERFORMANCE OPTIMIZATION

Elsevier Data Networks builds on the foundation laid in Kenyon's first book, High-Performance Data Network Design, with expanded coverage of routing, security, multicasting, and advanced design topics such as performance optimization and fault tolerance. Kenyon provides strategies for overcoming some of the most challenging problems in network design and management. He provides clear, specific solutions for day-to-day problems facing network designers and IT managers. In this book, you will find optimization advice from an experienced practitioner that you can put to work in your own system. As security and network performance become more and more critical to a company's success, the system administrator's job becomes even more difficult. Use the principles, tips, and techniques Kenyon offers here to enhance and protect the flow of data within your enterprise. · Covers Addressing, Routing, Multicasting, and Quality of Service (QoS) design for enterprise network design. · Extensive coverage on relevant Security Technologies and Virtual Private Network (VPN) implementation · Provides advanced coverage on Risk Assessment, Availability Analysis, Fault Tolerance, Disaster Recovery, and Network Optimization.

SOLARIS 9 ADMINISTRATION: A BEGINNERS GUIDE

Mcgraw-hill Ideal for Windows or Linux administrators looking to learn Solaris, this easy-to-use introductory guide covers the basics of Solaris 9 single host administration and explains how to manage Internet and intranet services.

ORACLE8 AND UNIX PERFORMANCE TUNING

Prentice Hall Ptr Oracle Senior Performance Engineer Ahmed Alomari covers virtually every relevant optimization technique in Oracle8, Oracle7, and three leading versions of UNIX: Solaris 2.6, HP-UX 11, and Sequent Dynix-ptx 4.4. He presents in-depth coverage of both OLTP and DSS applications, covering optimization of the UNIX kernel, memory, processors and I/O, and all these major Oracle8 performance enhancements.

LINUX ADMINISTRATION: A BEGINNERS GUIDE, SIXTH EDITION

McGraw Hill Professional Essential Linux Management Skills Made Easy Effectively deploy and maintain Linux and other Free and Open Source Software (FOSS) on your servers or entire network using this practical resource. Linux Administration: A Beginner's Guide, Sixth Edition provides up-to-date details on the latest Linux distributions, including Fedora, Red Hat Enterprise Linux, CentOS, Debian, and Ubuntu. Learn how to install and customize Linux, work from the GUI or command line, configure Internet and intranet services, interoperate with Windows systems, and create reliable backups. Performance tuning, security, and virtualization are also covered and real-world examples help you put the techniques presented into practice. Install and configure popular Linux distributions, including the latest versions of Fedora, CentOS, openSUSE, Debian, and Ubuntu Administer Linux servers from the GUI or from the command line (shell) Manage users, permissions, folders, and native FOSS applications Compile, tune, upgrade, and customize the latest Linux kernel 3.x series Work with proc, SysFS, and cgroup file systems Understand and manage the Linux TCP/IP networking stack and services for both IPv4 and IPv6 Build robust firewalls, and routers using Netfilter and Linux Create and maintain print, e-mail, FTP, and web servers Use LDAP or NIS for identity management Set up and administer DNS, POP3, IMAP3, and DHCP servers Use GlusterFS, NFS, and Samba for sharing and distributing file system resources Explore and implement Linux virtualization technologies using KVM

NAFIPS/IFIS/NASA '94

PROCEEDINGS OF THE FIRST INTERNATIONAL JOINT CONFERENCE OF THE NORTH AMERICAN FUZZY INFORMATION PROCESSING SOCIETY BIANNUAL CONFERENCE, THE INDUSTRIAL FUZZY CONTROL AND INTELLIGENT SYSTEMS CONFERENCE, AND THE NASA JOINT TECHNOLOGY WORKSHOP ON NEURAL NETWORKS AND FUZZY LOGIC : DECEMBER 18-21, 1994, SAN ANTONIO, TEXAS

Institute of Electrical & Electronics Engineers(IEEE)

UNIX REVIEW'S PERFORMANCE COMPUTING

INFOWORLD

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

OPTIMIZING BANDWIDTH

Computing McGraw-Hill **Shows users how to expand and optimize various types of bandwidth using all platforms (including UNIX, Linux, Windows NT, Windows 95, and Netware), hundreds of "tweaks" that network managers can use immediately, and easy-to-use tables. Original. (Intermediate).**

WEB PERFORMANCE TUNING

SPEEDING UP THE WEB

"O'Reilly Media, Inc." **As long as there's been a Web, people have been trying to make it faster. The maturation of the Web has meant more users, more data, more features, and consequently longer waits on the Web. Improved performance has become a critical factor in determining the usability of the Web in general and of individual sites in particular.Web Performance Tuning, 2nd Edition is about getting the best possible performance from the Web. This book isn't just about tuning web server software; it's also about streamlining web content, getting optimal performance from a browser, tuning both client and server hardware, and maximizing the capacity of the network itself.Web Performance Tuning hits the ground running, giving concrete advice for quick results -- the "blunt instruments" for improving crippled performance right away. The book then shifts gears to give a conceptual background of the principles of computing performance. The latter half of the book examines each element of a web transaction -- from client to network to server -- to find the weak links in the chain and show how to strengthen them.In this second edition, the book has been significantly expanded to include: New chapters on Web site architecture, security, reliability, and their impact on performance Detailed discussion of scalability of Java on multi-processor servers Perl scripts for writing web performance spiders that handle logins, cookies, SSL, and more Detailed instructions on how to use Perl DBI and the open source program gnuplot to generate performance graphs on the fly Coverage of rstat, a Unix-based open source utility for gathering performance statistics remotely In addition, the book includes many more examples and graphs of real-world performance problems and their solutions, and has been updated for Java 2.This book is for anyone who has waited too long for a web page to display, or watched the servers they manage slow to a crawl. It's about making the Web more usable for everyone.**

LINUX: POWERFUL SERVER ADMINISTRATION

Packt Publishing Ltd **Get hands-on recipes to make the most of Ubuntu Server, CentOS 7 Linux Server and RHEL 7 Server About This Book Get Linux servers up and running in seconds, In-depth guide to explore new features and solutions in server administration Maintain performance and security of your server solution by deploying expert configuration advice Who This Book Is For This Learning Path is intended for system administrators with a basic understanding of Linux operating systems and written with the novice-to-intermediate Linux user in mind. To get the most of this Learning Path, you should have a working knowledge of basic system administration and management tools. What You Will Learn Set up high performance, scalable, and fault-tolerant back ends with web and database servers Facilitate team communication with a real-time chat service and collaboration tools Monitor, manage and develop your server's file system to maintain a stable performance Gain best practice methods on sharing files and resources through a network Install and configure common standard services such as web, mail, FTP, database and domain name server technologies Create kickstart scripts to automatically deploy RHEL 7 systems Use Orchestration and configuration management tools to manage your environment In Detail Linux servers are frequently selected over other server operating systems for their stability, security and flexibility advantages.This Learning Path will teach you how to get up and running with three of the most popular Linux server distros: Ubuntu Server, CentOS 7 Server, and RHEL 7 Server. We will begin with the Ubuntu Server and show you how to make the most of Ubuntu's advanced functionalities. Moving on, we will provide you with all the knowledge that will give you access to the inner workings of the latest CentOS version 7. Finally, touching RHEL 7, we will provide you with solutions to common RHEL 7 Server challenges.This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: 1) Ubuntu Server Cookbook 2) CentOS 7 Linux Server Cookbook, Second Edition 3) Red Hat Enterprise Linux Server Cookbook Style and approach This easy-to-follow practical guide contains hands on examples and solutions to real word administration problems and problems faced when building your RHEL 7 system from scratch using orchestration tools.**

ORACLE AND UNIX PERFORMANCE TUNING

Prentice Hall Ptr **Alomari makes in-depth recommendations for tuning both decision support and transaction applications - each of which impact the Oracle kernel in significantly different ways. No other tuning book covers specific OLAP and OLTP issues in comparable detail.**

UNIX PERFORMANCE TUNING

CRC Press **Make your UNIX system lean, fast, and reliable with UNIX Performance Tuning, the complete guide to system and network performance! The experts from Sys Admin magazine take you deep into the world of UNIX systems monitoring and performance. Here's a small sample of what you'll learn: - kernel tuning for system input/output - X Window tuning - process and load monitoring - checking input/output processes - tracking memory allocation - monitoring & managing print queuing - optimizing NFS performance No matter what flavor of UNIX you use, you'll find UNIX Performance Tuning an invaluable tool for making your system run efficiently, 24 hours a day! ;**

SYSTEM PERFORMANCE TUNING

O'Reilly Media **Introduction to system performance; Monitoring system activity; Managing the workload; Memory performance; Disk performance issues; Network performance; Terminal performance; Kernel configuration.**

SYS ADMIN

THE JOURNAL FOR UNIX SYSTEM ADMINISTRATORS

COMPUTER TECHNOLOGY REVIEW

WIDE AREA NETWORK PERFORMANCE AND OPTIMIZATION

PRACTICAL STRATEGIES FOR SUCCESS

Addison-Wesley Professional Requirements analysis; analog links; digital circuit switch networks; X.25 networks; other packet switch networks; LAN/WAN interworking; networked applications; cell relay networks; emerging technologies; network management and analysis; public network issues; conclusions; mathematical appendix; list of abbreviations; glossary of terms.

OPTIMIZING UNIX FOR PERFORMANCE

Prentice Hall This is the most complete book available on performance optimization--featuring coverage of UNIX, networking (TCP/IP), hardware architecture, and program optimization--all in one volume. Covers performance basics; understanding UNIX; BSD instrumentation; System V instrumentation; system tuning; optimizing user programs written in high-level languages; and making accurate measurements. Explains in detail the output from each command--along with "real-life" rules of thumb on what value is "good" and what is not. For System Administrators, application programmers, MIS managers, and general users of UNIX systems who are interested in learning about and/or optimizing the performance of their UNIX system and networks.

ENTERPRISE DATA WAREHOUSE OPTIMIZATION WITH HADOOP ON IBM POWER SYSTEMS SERVERS

IBM Redbooks Data warehouses were developed for many good reasons, such as providing quick query and reporting for business operations, and business performance. However, over the years, due to the explosion of applications and data volume, many existing data warehouses have become difficult to manage. Extract, Transform, and Load (ETL) processes are taking longer, missing their allocated batch windows. In addition, data types that are required for business analysis have expanded from structured data to unstructured data. The Apache open source Hadoop platform provides a great alternative for solving these problems. IBM® has committed to open source since the early years of open Linux. IBM and Hortonworks together are committed to Apache open source software more than any other company. IBM Power SystemsTM servers are built with open technologies and are designed for mission-critical data applications. Power Systems servers use technology from the OpenPOWER Foundation, an open technology infrastructure that uses the IBM POWER® architecture to help meet the evolving needs of big data applications. The combination of Power Systems with Hortonworks Data Platform (HDP) provides users with a highly efficient platform that provides leadership performance for big data workloads such as Hadoop and Spark. This IBM RedpaperTM publication provides details about Enterprise Data Warehouse (EDW) optimization with Hadoop on Power Systems. Many people know Power Systems from the IBM AIX® platform, but might not be familiar with IBM PowerLinuxTM, so part of this paper provides a Power Systems overview. A quick introduction to Hadoop is provided for those not familiar with the topic. Details of HDP on Power Reference architecture are included that will help both software architects and infrastructure architects understand the design. In the optimization chapter, we describe various topics: traditional EDW offload, sizing guidelines, performance tuning, IBM Elastic StorageTM Server (ESS) for data-intensive workload, IBM Big SQL as the common structured query language (SQL) engine for Hadoop platform, and tools that are available on Power Systems that are related to EDW optimization. We also dedicate some pages to the analytics components (IBM Data Science Experience (IBM DSX) and IBM SpectrumTM Conductor for Spark workload) for the Hadoop infrastructure.

SYSTEM ADMINISTRATION

FOR INTEL PROCESSORS SVR4.2MP

Prentice Hall When you're the one who has to get it going, fix it, or shut it down, you need UNIX system administration guides you can depend on.

DEVELOPING ENTERPRISE WEB SERVICES

AN ARCHITECT'S GUIDE

Prentice Hall Professional & Includes a detailed case study - with complete source code - of building Web Services with Java AND .Net. & & Covers key emerging standards in transactioning, conversations, workflow, security and authentication, mobile and wireless, QoS, portlets, and management. & & Presents best practices based on authors' experiences building real world Web Services-based applications.

ITANIUM ARCHITECTURE FOR PROGRAMMERS

UNDERSTANDING 64-BIT PROCESSORS AND EPIC PRINCIPLES

Prentice Hall Professional Step-by-step guide to assembly language for the 64-bit Itanium processors, with extensive examples Details of Explicitly Parallel Instruction Computing (EPIC): Instruction set, addressing, register stack engine, predication, I/O, procedure calls, floating-point operations, and more Learn how to comprehend and optimize open source, Intel, and HP-UX compiler output Understand the full power of 64-bit Itanium EPIC processors Itanium(R) Architecture for Programmers is a comprehensive introduction to the breakthrough capabilities of the new 64-bit Itanium architecture. Using standard command-line tools and extensive examples, the authors illuminate the Itanium design within the broader context of contemporary computer architecture via a step-by-step investigation of Itanium assembly language. Coverage includes: The potential of Explicitly Parallel Instruction Computing (EPIC) Itanium instruction formats and addressing modes Innovations such as the register stack engine (RSE) and extensive predication Procedure calls and procedure-calling mechanisms Floating-point operations I/O techniques, from simple debugging to the use of files Optimization of output from open source, Intel, and HP-UX compilers An essential resource for both computing professionals and students of architecture or assembly language, Itanium Architecture for Programmers includes extensive printed and Web-based references, plus many numeric, essay, and programming exercises for each chapter.