

# Optimizing Nfs Performance Tuning And Troubleshooting Nfs On Hp Ux Systems

Managing NFS and NIS System Performance Tuning Windows NT Performance  
Tuning & Optimization Rapid J2EE Development Performance Tuning for Linux  
Servers Customer Relationship Management HP-UX 11i Version 2 System  
Administration High Performance MySQL Red Hat Linux Networking and System  
Administration Linux Performance Tuning and Capacity Planning Oracle8 and UNIX  
Performance Tuning Sysadmin System Performance Tuning Sys Admin Building  
Clustered Linux Systems Wide Area Network Performance and  
Optimization Optimizing UNIX for Performance Inside NetWare 3.12 UNIX  
Performance Tuning Windows NT Magazine Foundations of Software and System  
Performance Engineering Linux NFS-HOWTO Windows 2000 Performance Tuning &  
Optimization HP-UX CSA Optimizing NFS Performance Performance Tuning for IBM  
Security Directory Server Solaris 9 Administration: A Beginners Guide Java  
Transaction Processing AIX Performance Tuning Mobile Applications The British  
National Bibliography MySAP Toolbag for Performance Tuning and Stress  
Testing Internetworking with NetWare TCP/IP HP-UX 11i Tuning and Performance  
Red Hat Linux Security and Optimization Optimizing Bandwidth Web Performance  
Tuning System Performance Tuning HP-UX 11i Systems Administration Handbook  
and Toolkit Optimizing Linux Performance

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## **Managing NFS and NIS**

A guide for MySQL administrators covers such topics as benchmarking, server performance, indexing, queries, hardware optimization, replication, scaling, cloud hosting, and backup and recovery.

## **System Performance Tuning**

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

## **Windows NT Performance Tuning & Optimization**

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In this book, a leading expert on SAP performance walks through every facet of tuning and optimizing mySAP Solutions, and the technology layers underpinning these solutions, to maximize performance and value. George W. Anderson covers the entire testing and tuning process: planning, staffing, developing, testing, executing, validating, evaluating and acting on what you've learned. Anderson offers guidance with regard to predicting the impact of system changes - from new hardware to updated NetWeaver-enabled business processes. Along the way, he shows how to make the most of countless optimization and monitoring tools - from free and low-cost technology stack-based utilities to comprehensive, automated SAP testing suites.

### **Rapid J2EE Development**

Summary This classic howto was written in 2002, but it is still a must-read howto for any Linux professionals today. It will guide you how to set up NFS clients and servers. This is a book you should have on your bookshelf. Table of Contents 1. Preamble 1.1. Legal stuff 1.2. Disclaimer 1.3. Feedback 1.4. Translation 1.5. Dedication 2. Introduction 2.1. What is NFS? 2.2. What is this HOWTO and what is it not? 2.3. Knowledge Pre-Requisites 2.4. Software Pre-Requisites: Kernel Version and nfs-utils 2.5. Where to get help and further information 3. Setting Up an NFS Server 3.1. Introduction to the server setup 3.2. Setting up the Configuration Files 3.3. Getting the services started 3.4. Verifying that NFS is running 3.5. Making

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changes to /etc/exports later on 4. Setting up an NFS Client 4.1. Mounting remote directories 4.2. Getting NFS File Systems to Be Mounted at Boot Time 4.3. Mount options 5. Optimizing NFS Performance 5.1. Setting Block Size to Optimize Transfer Speeds 5.2. Packet Size and Network Drivers 5.3. Overflow of Fragmented Packets 5.4. NFS over TCP 5.5. Timeout and Retransmission Values 5.6. Number of Instances of the NFSD Server Daemon 5.7. Memory Limits on the Input Queue 5.8. Turning Off Autonegotiation of NICs and Hubs 5.9. Synchronous vs. Asynchronous Behavior in NFS 5.10. Non-NFS-Related Means of Enhancing Server Performance 6. Security and NFS 6.1. The portmapper 6.2. Server security: nfsd and mountd 6.3. Client Security 6.4. NFS and firewalls (ipchains and netfilter) 6.5. Tunneling NFS through SSH 6.6. Summary 7. Troubleshooting 7.1. Unable to See Files on a Mounted File System 7.2. File requests hang or timeout waiting for access to the file. 7.3. Unable to mount a file system 7.4. I do not have permission to access files on the mounted volume. 7.5. When I transfer really big files, NFS takes over all the CPU cycles on the server and it screeches to a halt. 7.6. Strange error or log messages 7.7. Real permissions don't match what's in /etc/exports. 7.8. Flaky and unreliable behavior 7.9. nfsd won't start 7.10. File Corruption When Using Multiple Clients 8. Using Linux NFS with Other Oses 8.1. AIX 8.2. BSD 8.3. Tru64 Unix 8.4. HP-UX 8.5. IRIX 8.6. Solaris 8.7. SunOS

## **Performance Tuning for Linux Servers**

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This handbook is for anyone responsible for a Web site, from the person running a personal site off a Linux PC at home up to large corporate site managers who wants to improve their performance right now.

### **Customer Relationship Management**

From tuning for maximum performance using the Windows NT Registry, to domain and capacity planning, to defining and minimizing bottlenecks, an exhaustive guide provides concise recommendations for getting the most from Windows NT. Original. (Advanced).

### **HP-UX 11i Version 2 System Administration**

Aimed at NetWare LAN administrators, this edition covers client and internetworking technologies including OS/2 Warp, Windows NT Workstation 3.5, and Novell's new Network Link State Protocol (NLSP). -- Teaches the basics of networking concepts as well as fundamental NetWare commands to help new users successfully administer a network -- Provides experienced users with detailed descriptions of advanced capabilities, such as security, application management, and internetworking -- Includes a reference that covers all of the essential NetWare commands -- CD-ROM includes a large selection of utilities and applications

## High Performance MySQL

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,

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netadmin, developer, capacity planner, or performance specialist, this is your complete guide to getting all the performance you paid for!

### **Red Hat Linux Networking and System Administration**

### **Linux Performance Tuning and Capacity Planning**

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

### **Oracle8 and UNIX Performance Tuning**

This is the definitive guide to installing and administering HP-UX 11i Version 2 in any environment, on both HP 9000 and HP Integrity server families. Drawing on 18 years of on-site HP-UX consulting experience, Marty Poniatowski offers unparalleled practical insight into running HP-UX 11i efficiently and reliably, illuminating features even experienced HP-UX sysadmins find confusing. Poniatowski organizes this book around your day-to-day needs and your system's lifecycle. He begins with in-depth coverage of installation and bootup, then walks

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through everything from LVM and kernel configuration through networking. He especially focuses on the capabilities and tools that make HP-UX unique-and how you can use them to save time and money. Coverage includes Partitioning from start to finish-including vPars and nPartitions installation, creation, and modification Booting HP Integrity systems with EFI, and HP 9000 systems with PDC, ISL, or hpux Mastering the Management Processor (MP): console, virtual front panel, and command menu Using HP-UX's new kernel-building commands: kccconfig, kcusage, kctune, kcmodule, and more Working with HP-UX's new web-based tools: pd (devices), parmgr (partitions), and kcweb (kernel) Mapping LBA to slot numbers: clear explanations of a non-intuitive technique Using Ignite-UX to boot and recover systems across the network Managing disks, devices, backup, users/groups, and much more © Copyright Pearson Education. All rights reserved.

### **Sysadmin**

Covering Releases 3.2.5 and 4.1, this book provides information on the concepts, tools, and techniques for assessing and tuning the performance of AIX on IBM's RISC System/6000. Focuses on efficient system and application design and implementation; as well as post-implementation tuning of CPU use, memory use, disk I/O, and communications I/O. For programmers, system managers, and end users concerned with performance tuning of AIX systems.

## **System Performance Tuning**

Introduction to system performance; Monitoring system activity; Managing the workload; Memory performance; Disk performance issues; Network performance; Terminal performance; Kernel configuration.

## **Sys Admin**

Internetworking with NetWare TCP/IP enables you to effectively implement and manage TCP/IP on your network while avoiding the difficulties and problems associated with NetWare TCP/IP. This book provides you with a thorough background on TCP/IP technology and a complete understanding of the NetWare services that operate in the TCP/IP environment.

## **Building Clustered Linux Systems**

Transaction processing is at the heart of modern enterprise systems. This book explains in depth transaction processing technology and how it can be leveraged in the Java platform. It provides a comprehensive explanation of the underlying concepts in transactions that are needed to understand and exploit the technology correctly. All technical information delivered in the book corresponds directly to the

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latest revision of Java. The authors cover how transactional aspects of all the major J2EE components work and the practical consequences of implementation choices. In addition, this text looks beyond Java at standards and implementations that provide for broad interoperability across heterogeneous application environments. Finally, the book provides a look at how emerging web services standards will address the next generation of reliable information systems.

### **Wide Area Network Performance and Optimization**

Linux Server Performance Tuning provides the knowledge and skills needed to understand and improve the performance of Linux servers. It describes the collective practical experience of IBM Linux Technology Center experts in Linux performance monitoring, evaluation and measurement, analysis, and tuning of Linux servers. It discusses methodologies for improving and maximizing the performance of business server applications running on an Intel-based hardware platform and the Linux operating system. Readers will obtain valuable insight into the tuning techniques needed to improve the performance of their software running on Linux. This includes an overview of the Linux kernel (including installation), a synopsis of the various Linux performance tools that can be used to isolate performance issues, and how to use them, and tuning principles, strategies and techniques for various Linux components such as the scheduler, memory and I/O subsystems. In addition, case studies for tuning these subsystems are also

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included, as well as the performance characterization of several Linux server applications, including web servers, database servers, application servers, and print and file servers.

### **Optimizing UNIX for Performance**

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.

### **Inside NetWare 3.12**

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,

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you'll find UNIX Performance Tuning an invaluable tool for making your system run efficiently, 24 hours a day! ;

### **UNIX Performance Tuning**

### **Windows NT Magazine**

Accompanied by a CD-ROM containing security tools, a comprehensive reference for power users and administrators explores a range of security issues for Linux systems, covering such topics as firewalls, file systems security, root accounts, and security enhancement techniques. Original. (Intermediate)

### **Foundations of Software and System Performance Engineering**

Profiler for Linux systems.

### **Linux NFS-HOWTO**

Spending on worldwide wireless and mobile network infrastructure will rise by \$10.7 billion between 2002 and 2007. In this new resource, the authors provide

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technology-independent principles and practices that no mobile application developer should be without. This book illustrates specific details of mobile technologies and includes mobile application case studies.

### **Windows 2000 Performance Tuning & Optimization**

#### **HP-UX CSA**

Introduction to system performance; Monitoring system activity; Managing the workload; Memory performance; Disk performance issues; Network performance; Terminal performance; Kernel configuration.

#### **Optimizing NFS Performance**

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

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partitioning coverage: vPars, PRM, nPartitions, and MC/ServiceGuard. CD-ROM: new HP-UX performance management trialware, sysadmin "Cheat Sheets," and more.

### **Performance Tuning for IBM Security Directory Server**

Until now, building and managing Linux clusters has required more intimate and specialized knowledge than most IT organizations possess. This book dramatically lowers the learning curve, bringing together all the hands-on knowledge and step-by-step techniques needed to get the job done.

### **Solaris 9 Administration: A Beginners Guide**

The J2EE developer's practical introduction and cookbook to cost saving software engineering solutions.

### **Java Transaction Processing**

For system administrators who need to set up or manage a network file system installation. This is the only practical book devoted entirely to NFS (Network Filesystem) and NIS (Network Information System)--a must-have for anyone interested in UNIX networking.

## **AIX Performance Tuning**

## **Mobile Applications**

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.

## **The British National Bibliography**

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

## **MySAP Toolbag for Performance Tuning and Stress Testing**

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.

## **Internetworking with NetWare TCP/IP**

In today's highly connected world, directory servers are the IT cornerstone of many businesses. These components of the corporate infrastructure are the foundation of authentication systems for internal and, more commonly, external user populations. Managing a directory server with several hundred internal users is not all that difficult. However, managing a directory server with several million external users in all 24 time zones throughout the world is a much more daunting task. IBM® Security Directory Server software can handle millions of entries, given the right architecture, configuration, and performance tuning. However, that tuning can differ greatly from tuning for a smaller server with only a few hundred thousand entries. Managing and tuning a directory server of this size requires a

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change in mindset. Tuning and performance must be a focus even before the hardware is ordered. A proactive approach must be taken after installation also, including the pretuning steps to better interface with other products to make installations and migrations successful, and then regular maintenance to keep the directory running smoothly. This IBM Redbooks® publication is the accumulation of lessons learned in many different real-world environments, including a 24-server fault tolerant configuration with more than 300 million entries. The authors pooled their knowledge and resources to provide the most comprehensive performance view possible, from hardware to software, sort heaps to buffer pools, and table cardinalities. In large directory server deployments, use this document as a guide for how to get the right fit for your environment.

### **HP-UX 11i Tuning and Performance**

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.

### **Red Hat Linux Security and Optimization**

Get peak performance from your Windows 2000 enterprise network--and run

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Windows faster, more reliably, and more efficiently with help from this hands-on resource. You'll get an in-depth analysis of optimizing Windows 2000 subsystems, replication, hardware--and much more. Plus, learn to master IIS, Terminal Services, Active Directory and performance-tuning tools.

### **Optimizing Bandwidth**

This book offers comprehensive preparation for HP's tough new HP-UX CSA exam - and an expert reference for working system/network administrators. You'll find thorough, HP-reviewed coverage of every exam objective, including installation, configuration, control, maintenance, kernel tuning, and network administration. Already administering HP-UX systems? Planning to? Migrating from other UNIX platforms? Whatever your background, this book will prepare you for the realities of HP-UX administration - and for the CSA exam that will recognize your skills.

### **Web Performance Tuning**

This book overviews performance tuning and capacity planning for the experience professional. It also covers traditional UNIX tools that have been ported to Linux. Coverage includes: theoretical overview of performance tuning; a discussion of the risks involved and plans for prevention; examination of popular UNIX tools;

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examination of native Linux performance tuning tools; concepts of capacity planning; and esigning and managing a capacity plan.

### **System Performance Tuning**

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).

### **HP-UX 11i Systems Administration Handbook and Toolkit**

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

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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.

### **Optimizing Linux Performance**

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“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

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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.

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