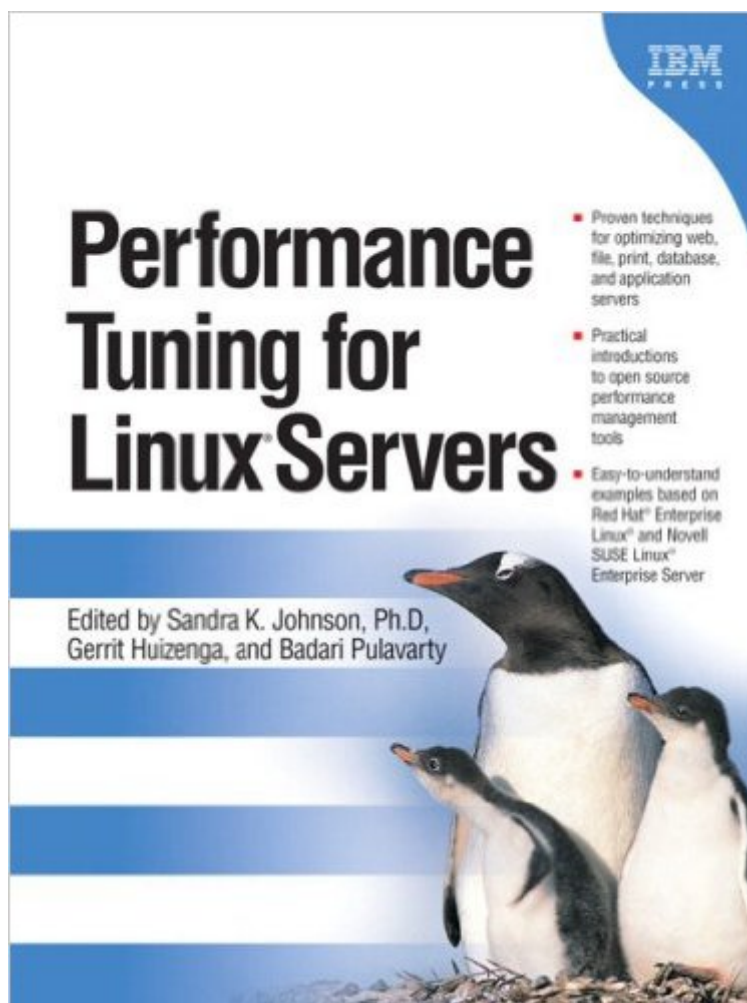


The book was found

# Performance Tuning For Linux(R) Servers



## Synopsis

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

## Book Information

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## Customer Reviews

I'll just echo some of the previous reviews: This book is incredibly hit or miss. It's not just how random each section is (you can almost tell who was responsible for writing each section/chapter, the differences are so stark). Here's a laundry list: 1) They rarely go into that much detail on any one topic. You don't get much discussion on what practical effect the tunables have, they just basically give you a short description of the tunable and suggest what you'd use it for. It would be helpful if

you describe WHY it's advisable to do what they're suggesting, instead of just saying it and letting us judge between that and what they said the tunable control's description.2) Some information in it is just plain wrong. For example: despite the previous section (understandably) describing the CFS scheduler (on page 189), The section about CPU scheduler tunables (on page 192) they give you a long list of tunables for the 2.4 kernel's scheduler and nothing for CFS. This is also an example of how much quality/tone variation there is in such a short space. Why they're even touching on 2.4's scheduler in a book that first came out in 2005 (two years after 2.6's first stable release) I don't really know.3) Terms are often used before they're defined and sometimes not even defined. This also goes for the graphs and tables, they'll put some sort of graphic out there without telling you what it's for and then you'll stumble on something a page and a half later that talks about it or you'll remember that they were talking about something similar a few pages back.4) Since there's no updated version the software being referenced is pretty old.

If you're responsible for Linux servers and you need to keep things running at peak efficiency, you \*need\* to get this book... Performance Tuning For Linux Servers, edited by Sandra K. Johnson, Ph. D., Gerrit Huizenga, and Badari Pulavarty. It's an excellent blend of theory and practicality. Chapter List: Part 1 - Linux Overview: Linux Installation Issues; Kernel Overview; Overview Of Server Architectures Part 2 - Performance Analysis Tools: System Performance Monitoring; System Trace Tools; Benchmarks As An Aid To Understanding Workload Performance Part 3 - System Tuning: System Performance Principles And Strategy - A Benchmarking Methodology Case Study; Scheduler Tuning; The Linux Virtual Memory-Performance Implications; I/O Subsystems-Performance Implications; File System Tuning; Network Tuning; Interprocess Communications; Code Tuning Part 4 - Performance Characterization Of Linux Server Applications: Web Servers; File And Print Servers; Database Servers; Application Servers Part 5 - Tuning Case Studies: Case Study - Tuning The I/O Schedulers In Linux 2.6; Case Study - File System Tuning; Case Study - Network Performance On Linux; Case Study - Commercial Workload Tuning; Tuning Kernel Parameters; Index This is one of those rare books that ranks high on many criteria... It's got a lot of theory, the "why" of different features as they relate to performance. It's also packed full of practical material. They tell you how to measure key components in the system and what parameters you can change to affect those areas. When you get done, you've covered every conceivable area that exists in the Linux environment.

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