System Performance Tuning, 2nd Edition (O'Reilly System Administration)

By Gian-Paolo D. Musumeci, Mike Loukides

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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.
- Comprehensi

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Editorial Review

Amazon.com Review
The easy way to solve a performance problem--and the one to which hardware manufacturers love to call attention--is to apply more horsepower to the application in question. It's safe to bet that a server upgrade will speed things up. True information technology professionals, however, won't take the easy way out when dealing with an increased workload for older systems. They'll do their best to wring top performance (with required reliability) from existing hardware, thus improving their organizations' return on capital investment and demonstrating their own engineering skills. The second edition of *System Performance Tuning* offers advice on where to look for bottlenecks in applications--both local and networked--that run under Unix. It also offers advice on provisioning new systems, which is to say it offers advice on deciding how much computing power is enough for a new system to be implemented.

Emphasizing Solaris 8 and, to a lesser extent, Linux, the new version of this book represents a significant revision (the first came out in 1990 and was pretty badly obsolete). There's coverage of advances in hardware--multiple processors, RAID storage, faster and cheaper memory, and networked devices--as well as consideration of changes in the demands placed on machines (after all, few people were concerned about Web server performance in 1990). Administrators will get plenty of value from the authors' discussion of what goes on during, for example, a series of large store-to-disk operations, and be better able to optimize their systems. *--David Wall*

Topics covered: How to get top performance from computer systems (those running Linux and especially Sun Solaris 8) without adding processor capacity, memory, and other resources at potentially great expense. The authors explain the ways in which operating systems and applications use processors, memory, persistent storage, and networks, and point out potential bottlenecks. They also show how to use tools--such as execution timers--that you can use to benchmark performance changes.

From the Publisher
System Performance Tuning answers one of the most fundamental questions you can ask about your UNIX-based computer: How can I get it to do more work without buying more hardware? Anyone who has ever used a computer has wished that the system was faster, particularly at times when it was under heavy load. If your system gets sluggish when you start a big job, if it feels as if you spend hours waiting for remote file access to complete, if your system stops dead when several users are active at the same time, you need to read this book. Some performance problems do require you to buy a bigger or faster computer, but many can be solved simply by making better use of the resources you already have. Contents include: Real and perceived performance problems. Simple tricks to improve keyboard response. Locating your problem; finding out what your system is doing. Using tools such as at and batch to manage system load. Surviving without a lot of memory. Configuring your I/O system for the best throughput. Detecting an overworked or malfunctioning network. Building a kernel that uses your system more efficiently.

About the Author

Mike Loukides is an editor for O'Reilly & Associates. He is the author of System Performance Tuning and UNIX for FORTRAN Programmers. Mike's interests are system administration, networking, programming languages, and computer architecture. His academic background includes degrees in electrical engineering

(B.S.) and English literature (Ph.D.).

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