



Server Architectures

**Multiprocessors, Clusters,
Parallel Systems, Web Servers,
Storage Solutions**

René J. Chevance

Server Architectures Multiprocessors Clusters Parallel Systems Web Servers Storage Solutions

Jay D White



Server Architectures Multiprocessors Clusters Parallel Systems Web Servers Storage Solutions:

Server Architectures René J. Cheavance, 2004-12-31 The goal of this book is to present and compare various options one for systems architecture from two separate points of view One that of the information technology decision maker who must choose a solution matching company business requirements and secondly that of the systems architect who finds himself between the rock of changes in hardware and software technologies and the hard place of changing business needs Different aspects of server architecture are presented from databases designed for parallel architectures to high availability systems and touching en route on often neglected performance aspects The book provides IT managers decision makers and project leaders who want to acquire knowledge sufficient to understand the choices made in and capabilities of systems offered by various vendors Provides system design information to balance the characteristic applications against the capabilities and nature of various architectural choices In addition it offers an integrated view of the concepts in server architecture accompanied by discussion of effects on the evolution of the data processing industry

Strategies and Technologies for Developing Online Computer Labs for Technology-Based Courses Chao, Lee, 2007-10-31 For technology based online courses computer labs are necessary to support hands on practice for IT products The implementation of an online computer teaching lab is a challenging task Strategies Technologies for Developing Online Computer Labs for Technology Based Courses discusses design strategies implementation difficulties and the effectiveness of online labs This book provides scholars researchers and practitioners support for lab based e learning gives guidance on the selection of technologies for various projects and illustrates Web based teaching with case studies

Utilizing Open Source Tools for Online Teaching and Learning: Applying Linux Technologies Chao, Lee, 2009-05-31 This book covers strategies on using and evaluating open source products for online teaching and learning systems Provided by publisher

Managing Information in the Public Sector Jay D White, 2015-02-12 This first of its kind survey covers both the basics of information technology and the managerial and political issues surrounding the use of these technologies Unlike other works on information systems this book is written specifically for the public sector and addresses unique public sector issues and concerns The technical basics are explained in clear English with as little technical jargon as possible so that readers can move on to informed analysis of the public policy issues surrounding government s use of MIS This practical tool includes end of chapter summaries with bridges to upcoming chapters numerous boxed exhibits thorough end of chapter notes and a bibliography for further reading

Архитектура высоконагруженных систем Вадим Подольный, 2024-04-04
American Book Publishing Record ,2003 *Tecnologia da informação* Wagner Sanchez, 2020-08-28 A S rie Universit ria foi desenvolvida pelo Senac S o Paulo com o intuito de preparar profissionais para o mercado de trabalho Os t tulos abrangem diversas reas abordando desde conhecimentos te ricos e pr ticos adequados s exig ncias profissionais at a forma o tica e s lida Tecnologia da informa o explora a fus o de tecnologias emergentes que impulsiona a disrup o dos atuais modelos

de negócio experiências de clientes formatos de empresas e formas de ganhar competitividade para um mercado que clama por mudanças de paradigmas. A tecnologia da informação dentro das organizações deve ter um grande maestro condutor das transformações digitais que as empresas tanto buscam. Esse maestro o profissional de TI que precisa compreender como os atuais softwares e hardwares podem contribuir para que seus negócios ganhem relevância nesse mercado altamente volátil e competitivo. Este livro tem como objetivo imergir o gestor corporativo nesse amplo espectro de oportunidades e ameaças tecnológicas que podem ditar a prosperidade ou a eliminação organizacional dependendo de suas tomadas de decisões.

Thông báo sách mới ,2009 Performance Comparison of Uniprocessor and Multiprocessor Web Server

Architectures Ashif S. Harji, 2010. This thesis examines web server architectures for static workloads on both uniprocessor and multiprocessor systems to determine the key factors affecting their performance. The architectures examined are event-driven userver and pipeline WatPipe. As well as a thread per connection Knot architecture is examined for the uniprocessor system. Various workloads are tested to determine their effect on the performance of the servers. Significant effort is made to ensure a fair comparison among the servers. For example, all the servers are implemented in C or C++ and support sendfile and edge-triggered epoll. The existing servers Knot and userver are extended as necessary, and the new pipeline server WatPipe is implemented using userver as its initial code base. Each web server is also tuned to determine its best configuration for a specific workload, which is shown to be critical to achieving best server performance. Finally, the server experiments are verified to ensure each is performing within reasonable standards. The performance of the various architectures is examined on a uniprocessor system. Three workloads are examined: no disk I/O, moderate disk I/O, and heavy disk I/O. These three workloads highlight the differences among the architectures. As expected, the experiments show that the amount of disk I/O is the most significant factor in determining throughput, and once there is memory pressure, the memory footprint of the server is the crucial performance factor. The peak throughput differs by only 9-13% among the best servers of each architecture across the various workloads. Furthermore, the appropriate configuration parameters for best performance varied based on workload, and no single server performed the best for all workloads. The results show that the event-driven and pipeline servers have equivalent throughput when there is moderate or no disk I/O. The only difference is during the heavy disk I/O experiments, where WatPipe's smaller memory footprint for its blocking server gave it a performance advantage. The Knot server has 9% lower throughput for no disk I/O and moderate disk I/O, and 13% lower for heavy disk I/O, showing the extra overheads incurred by thread-per-connection servers but still having performance close to the other server architectures. An unexpected result is that blocking sockets with sendfile outperforms non-blocking sockets with sendfile when there is heavy disk I/O because of more efficient disk access. Next, the performance of the various architectures is examined on a multiprocessor system. Knot is excluded from the experiments as its underlying thread library Capriccio only supports uniprocessor execution. For these experiments, it is shown that partitioning the system so that server processes subnets and requests are

handled by the same CPU is necessary to achieve high throughput Both N copy and new hybrid versions of the uniprocessor servers extended to support partitioning are tested While the N copy servers performed the best new hybrid versions of the servers also performed well These hybrid servers have throughput within 2% of the N copy servers but offer benefits over N copy such as a smaller memory footprint and a shared address space For multiprocessor systems it is shown that once the system becomes disk bound the throughput of the servers is drastically reduced To maximize performance on a multiprocessor high disk throughput and lots of memory are essential

The HAS Architecture Ibrāhīm Ḥaddād, 2006 This dissertation proposes a novel architecture called the HAS architecture for highly available and scalable web server clusters The proof of concept of the HAS architecture was validated for performance and scalability tested for its failover mechanisms and externally modeled and simulated to study the failure and repair behavior and to calculate the availability of the cluster The HAS architecture is able to maintain the base line performance per cluster processor for up to 16 traffic processors in the cluster achieving close to linear scalability The architecture supports dynamic traffic distribution supports heterogeneous cluster nodes provides a mechanism to keep track of available cluster nodes and offers connection synchronization to ensure that web connections survive software or hardware failures Furthermore the architecture supports different redundancy models and high availability capabilities such as Ethernet and NFS redundancy and node level redundancy that contribute in increasing the availability of the service and in eliminating single points of failure This dissertation presents current methods for scaling web servers discusses their limitations and investigates how clustering technologies can help overcome some of these challenges and enable the design of scalable web servers based on a cluster of workstations It examines various ongoing research projects in the academia and the industry that are investigating scalable and highly available architectures for web servers It discusses their scope architecture provides a critical analysis of their work and presents their contributions to this dissertation This dissertation contributes the HAS architecture a highly available and scalable architecture for web servers and offers contributions in areas of scalability maintaining baseline performance and availability

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