



Server Architectures

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

René J. Chevance

Server Architectures Multiprocessors Clusters Parallel Systems Web Servers Storage Solutions

J Dewey



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Server Architectures René J. Chevance, 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

Aeronautics Zain Anwar Ali, Dragan Cvetković, 2022-12-21 This book provides a comprehensive overview of aeronautics It discusses both small and large aircraft and their control strategies path planning formation guidance and navigation It also examines applications of drones and other modern aircraft for inspection exploration and optimal pathfinding in uncharted territory The book includes six sections on agriculture surveillance and obstacle avoidance systems using unmanned aerial vehicles UAVs motion planning of UAV swarms assemblage and control of drones aircraft flight control for military purposes the modeling and simulation of aircraft and the environmental application of UAVs and the prevention of accidents

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 neg cio experi ncias de clientes formatos de empresas e formas de ganhar competitividade para um mercado que clama por mudan as de paradigmas A tecnologia da informa o dentro das organiza es deve ter um grande maestro condutor das transforma es 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 neg cios ganhem relev ncia nesse mercado altamente vol til e competitivo Este livro tem como objetivo imergir o gestor corporativo nesse amplo espectro de oportunidades e amea as tecnol gicas que podem ditar a prosperidade ou a elimina o organizacional dependendo de suas tomadas de decis es

Thông báo sách mới ,2009 **Proceedings** ,2004 **Proceedings of the Third International Conference on Massively Parallel Processing Using Optical Interconnections** Allan Gottlieb, Yao Li, Eugen Schenfeld, 1996 Contains papers from the October 1996 conference focusing on the potentials and impacts that optical interconnections can have on massively parallel processing Offers sections on comparative studies for optical interconnects interconnection networks and system architectures WDM in MPP systems tradeoffs in intra system optical interconnects scalable interconnection networks architecture issues guided wave components for optical interconnects and multiprocessor networks and systems Includes discussion of the roles of university and industry in developing systems For researchers in computer science engineering and optics No index Annotation copyrighted by Book News Inc Portland OR [Datapro Reports on UNIX Systems & Software](#) ,1998 **Dissertation Abstracts International** ,2004 *American Doctoral Dissertations* ,1998 *Index to IEEE Publications* Institute of Electrical and Electronics Engineers, 1997 *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 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 achieve 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 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 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

In Search of Clusters Gregory F. Pfister,1995 This book covers the underlying hardware and software technologies and shows how clusters of small computers can match the performance of the most powerful supercomputers It provides the background needed to understand the real issues involved in implementing parallel and distributing systems plus an analysis of the various forms of clusters

Distributed and Parallel Systems Péter Kacsuk,2002-09-30 The papers in this volume from a workshop titled Distributed and Parallel Systems DAPSYS 2002 cover a broad range of research topics presented in four groups The first one introduces cluster tools and techniques especially the issues of load balancing and migration Another six papers deal with grid and global computing including grid infrastructure tools applications and mobile computing The next nine papers present general questions of distributed development and applications The last four papers address a crucial issue in distributed computing fault tolerance and dependable systems Page ix

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.

The HAS Architecture Ibrahim Haddad, 2006

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