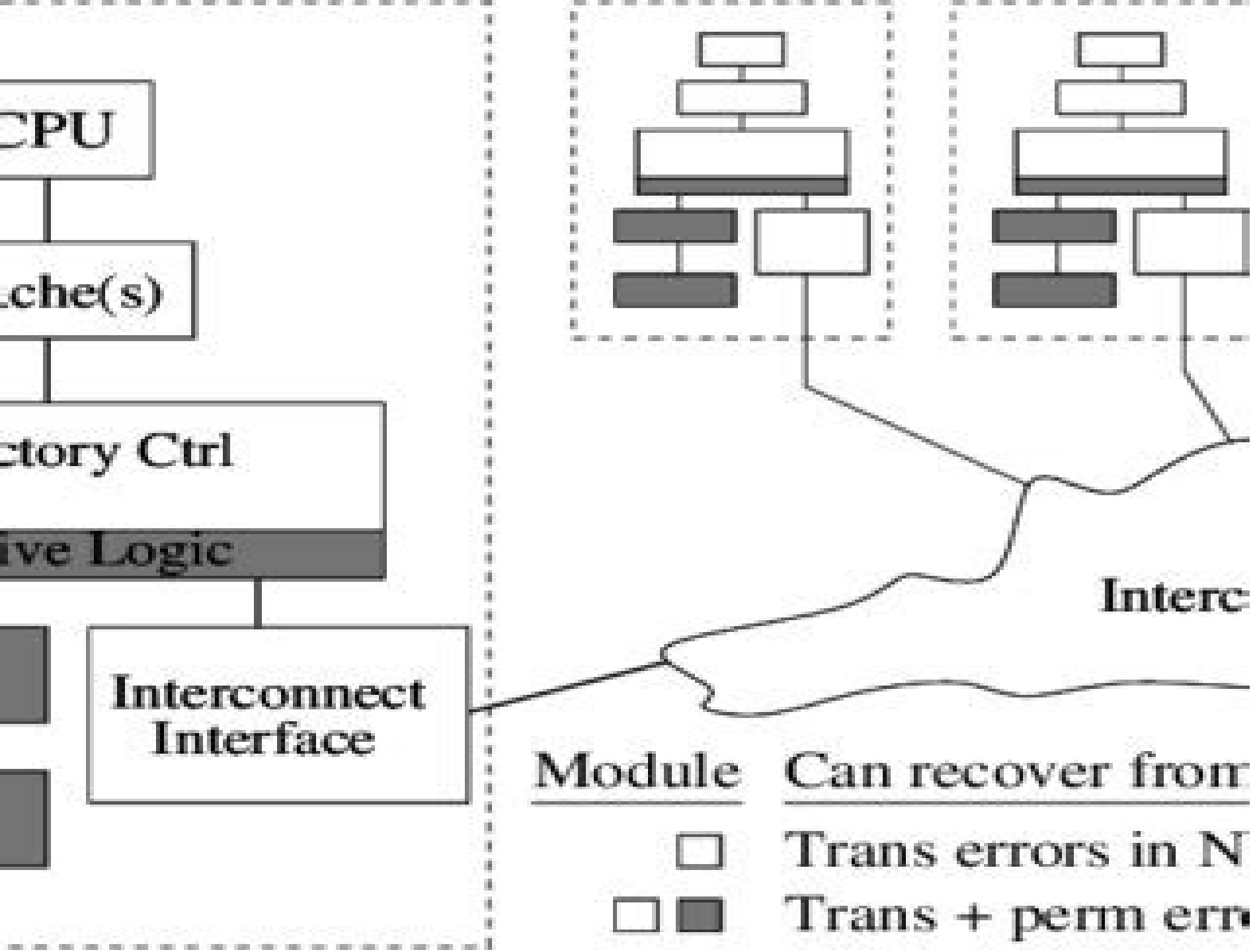
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Scalable Shared Memory Multiprocessors

AW Rasmussen

Scalable Shared Memory Multiprocessors:

Scalable Shared Memory Multiprocessors Michel Dubois,S. S. Thakkar,1992 Mathematics of Computing Parallelism

Revision to "Memory Consistency and Event Ordering in Scalable Shared-Memory Multiprocessors". Stanford University. Computer Systems Laboratory,Kourosh Gharachorloo,Anoop Gupta,John L. Hennessy,1993 In addition our previous work on the implementation and performance of various memory models is unaffected by this change Scalable Shared-Memory Multiprocessing Daniel E. Lenoski,Wolf-Dietrich Weber,2014-06-28 Dr Lenoski and Dr Weber have experience with leading edge research and practical issues involved in implementing large scale parallel systems They were key contributors to the architecture and design of the DASH multiprocessor Currently they are involved with commercializing scalable shared memory technology *Memory Consistency and Event Ordering in Scalable Shared-memory Multiprocessors* Kourosh Gharachorloo,Stanford University. Computer Systems Laboratory,D. Lenoski,J. Laudon,P. Gibbons,A. Gupta,J. Hennessy,1990 **9th. Workshop on Scalable Shared Memory Multiprocessors** Jeff Kuskin,Ashwini Nanda,Joseph Torrellas,2000 *Multi-bus, Scalable, Shared-memory Multiprocessors* Michael James Carlton,1995 *Distributed Shared Memory* Jelica Protic,Milo Tomasevic,Veljko Milutinović,1997-08-10 The papers present in this text survey both distributed shared memory DSM efforts and commercial DSM systems The book discusses relevant issues that make the concept of DSM one of the most attractive approaches for building large scale high performance multiprocessor systems The authors provide a general introduction to the DSM field as well as a broad survey of the basic DSM concepts mechanisms design issues and systems The book concentrates on basic DSM algorithms their enhancements and their performance evaluation In addition it details implementations that employ DSM solutions at the software and the hardware level This guide is a research and development reference that provides state of the art information that will be useful to architects designers and programmers of DSM systems Cache Coherence for Scalable Shared Memory Multiprocessors Manu Thapar,Stanford University. Computer Systems Laboratory,1991 Architectural Features for Scalable Shared Memory Multiprocessors Joonwon Lee,Georgia Institute of Technology. College of Computing,1991

End-to-end Fault Containment in Scalable Shared-memory Multiprocessors Dan Teodosiu,2000 **Parallel Computing on Distributed Memory Multiprocessors** Füsun Özgüner,Fikret Ercal,2012-12-06 Advances in microelectronic technology have made massively parallel computing a reality and triggered an outburst of research activity in parallel processing architectures and algorithms Distributed memory multiprocessors parallel computers that consist of microprocessors connected in a regular topology are increasingly being used to solve large problems in many application areas In order to use these computers for a specific application existing algorithms need to be restructured for the architecture and new algorithms developed The performance of a computation on a distributed memory multiprocessor is affected by the node and communication architecture the interconnection network topology the I O subsystem and the parallel algorithm and

communication protocols Each of these parametersis a complex problem and solutions require an understanding of the interactions among them This book is based on the papers presented at the NATO Advanced Study Institute held at Bilkent University Turkey in July 1991 The book is organized in five parts Parallel computing structures and communication Parallel numerical algorithms Parallel programming Fault tolerance and Applications and algorithms Shared Memory Multiprocessing Norihisa Suzuki,1992 Shared memory multiprocessors are becoming the dominant architecture for small scale parallel computation This book is the first to provide a coherent review of current research in shared memory multiprocessing in the United States and Japan It focuses particularly on scalable architecture that will be able to support hundreds of microprocessors as well as on efficient and economical ways of connecting these fast microprocessors The 20 contributions are divided into sections covering the experience to date with multiprocessors cache coherency software systems and examples of scalable shared memory multiprocessors *Identification and Optimization of Sharing Patterns for Scalable Shared-memory Multiprocessors* Stefanos Kaxiras,1998 The Cache Coherence Problem in Shared-Memory Multiprocessors Igor Tartalja,Veljko Milutinović,1996-02-13 Almost all software solutions are developed through academic research and implemented only in prototype machines leaving the field of software techniques for maintaining the cache coherence widely open for future research and development This book is a collection of all the representative approaches to software coherence maintenance including a number of related efforts in the performance evaluation field The book presents a selection of 27 papers dealing with state of the art software solutions for cache coherence maintenance in shared memory multiprocessors It begins with a set of four introductory readings that provides a brief overview of the cache coherence problem and introduces software solutions to the problem The text defines and illustrates static and dynamic software schemes techniques for modeling performance evaluation mechanisms and performance evaluation studies The book is intended for the experienced reader in computer engineering but possibly a novice in the topic of cache coherence It also provides an in depth understanding of the problem as well as a comprehensive overview for multicomputer designers computer architects and compiler writers In addition it is a software coherence reference handbook for advanced undergraduate and typical graduate students in multiprocessing and multiprogramming areas Parallel Computer Organization and Design Michel Dubois,Murali Annavaram,Per Stenström,2012-08-30 A design oriented text for advanced computer architecture courses covering parallelism complexity power reliability and performance **Proceedings of the 1993 International Conference on Parallel Processing** C.Y. Roger Chen,P. Bruce Berra,1993-08-16 This three volume work presents a compendium of current and seminal papers on parallel distributed processing offered at the 22nd International Conference on Parallel Processing held August 16 20 1993 in Chicago Illinois Topics include processor architectures mapping algorithms to parallel systems performance evaluations fault diagnosis recovery and tolerance cube networks portable software synchronization compilers hypercube computing and image processing and graphics Computer

professionals in parallel processing distributed systems and software engineering will find this book essential to their complete computer reference library **Advanced Parallel Processing Technologies** Yong Dou,Ralf Gruber,Josef Joller,2009-08-06 This book constitutes the refereed proceedings of the 8th International Workshop on Advanced Parallel Processing Technologies APPT 2009 held in Rapperswil Switzerland in August 2009 The 36 revised full papers presented were carefully reviewed and selected from 76 submissions All current aspects in parallel and distributed computing are addressed ranging from hardware and software issues to algorithmic aspects and advanced applications The papers are organized in topical sections on architecture graphical processing unit grid grid scheduling mobile application parallel application parallel libraries and performance *Hardware and Software Architectures for Fault Tolerance* Michel Banatre,1994-02-28 Fault tolerance has been an active research area for many years This volume presents papers from a workshop held in 1993 where a small number of key researchers and practitioners in the area met to discuss the experiences of industrial practitioners to provide a perspective on the state of the art of fault tolerance research to determine whether the subject is becoming mature and to learn from the experiences so far in order to identify what might be important research topics for the coming years The workshop provided a more intimate environment for discussions and presentations than usual at conferences The papers in the volume were presented at the workshop then updated and revised to reflect what was learned at the workshop **EURO-PAR '95: Parallel Processing** Seif Haridi,Khayri Ali,Peter Magnusson,1995 This book presents the proceedings of the First International EURO PAR Conference on Parallel Processing held in Stockholm Sweden in August 1995 EURO PAR is the merger of the former PARLE and CONPAR VAPP conference series the aim of this merger is to create the premier annual scientific conference on parallel processing in Europe The book presents 50 full revised research papers and 11 posters selected from a total of 196 submissions on the basis of 582 reviews The scope of the contributions spans the full spectrum of parallel processing ranging from theory over design to application thus the volume is a must for anybody interested in the scientific aspects of parallel processing or its advanced applications Proceedings of the Conference on Experimental Research in Computer Systems Lawrence Snyder,1997

The Enigmatic Realm of **Scalable Shared Memory Multiprocessors**: Unleashing the Language is Inner Magic

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