

Cache memory



The Cache Memory

James E. Brink, Richard J. Spillman



The Cache Memory:

The Cache Memory Book Jim Handy, 1998-01-13 The Second Edition of The Cache Memory Book introduces systems designers to the concepts behind cache design The book teaches the basic cache concepts and more exotic techniques It leads readers through some of the most intricate protocols used in complex multiprocessor caches Written in an accessible informal style this text demystifies cache memory design by translating cache concepts and jargon into practical methodologies and real life examples It also provides adequate detail to serve as a reference book for ongoing work in cache memory design The Second Edition includes an updated and expanded glossary of cache memory terms and buzzwords The book provides new real world applications of cache memory design and a new chapter on cachetricks Illustrates detailed example designs of caches Provides numerous examples in the form of block diagrams timing waveforms state tables and code traces Defines and discusses more than 240 cache specific buzzwords comparing in detail the relative merits of different design methodologies Includes an extensive glossary complete with clear definitions synonyms and references to the appropriate text discussions

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Key Features Illustrates detailed example designs of caches Provides numerous examples in the form of block diagrams timing waveforms state tables and code traces Defines and discusses more than 240 cache specific buzzwords comparing in detail the relative merits of different design methodologies Includes an extensive glossary complete with clear definitions synonyms and references to the appropriate text discussions

Cache and Memory Hierarchy Design Steven A. Przybylski, 1990 A widely read and authoritative book for hardware and software designers This innovative book exposes the characteristics of performance optimal single and multi level cache hierarchies by approaching the cache design process through the novel perspective of minimizing execution time

Official Gazette of the United States Patent and Trademark Office, 2002

[The Cache-coherence Problem in Shared-memory Multiprocessors](#) Milo Tomašević, Veljko Milutinović, 1993 A tutorial on the nature of the cache coherence problem and the wide variety of proposed hardware solutions currently available A number of the most important papers in this field are included within seven sections

introductory issues memory reference characteristics of parallel programs directo

Cache-memory Interfaces in Compressed Memory Systems International Business Machines Corporation. Research Division. (IBMRD), Caroline D.

Benveniste, Peter A. Franaszek, John T. Robinson, 2000 Abstract We consider a number of cache memory hierarchy design issues in systems with compressed random access memories C RAMs in which compression and decompression occur automatically to and from main memory Using a C RAM as main memory segments of main memory are stored in a compressed format and dynamically decompressed to handle cache misses at the next higher level of memory Design of main memory directory structures and storage allocation methods in such systems are described elsewhere here we focus on issues related to cache memory interfaces In particular if the cache line size of the cache or caches to which main memory data is transferred is different than the size of the unit of compression in main memory bandwidth and latency problems can occur Another issue is that of guaranteed forward progress that is ensuring that modified lines can be written to the compressed main memory so that the system can continue operation even if overall compression deteriorates We study several approaches for solving these problems using trace driven analysis to evaluate alternatives **Parallel and**

Distributed Simulation Systems Richard M. Fujimoto, 2000-01-03 From the preface page xv My goal in writing **Parallel and Distributed Simulation Systems** is to give an in depth treatment of technical issues concerning the execution of discrete event simulation programs on computing platforms composed of many processors interconnected through a network **SPARC**

RISC User's Guide Ross Technology, 1990 *Implementing Persistent Object Bases* Alan Dearle, Gail M. Shaw, Stanley Benjamin Zdonik, 1991 Computer Design, 1987 *Microprocessor System Design Techniques* Richard Barnett, 1991

Computer Architecture and VAX Assembly Language Programming James E. Brink, Richard J. Spillman, 1987 Detailed coverage of architecture hardware topics such as CPU microprocessors large computer architecture and fault tolerance architecture makes this a valuable reference For computer science and electrical engineering professionals as well as VAX assembly language programmers **Organization and Analysis of Interleaved Memory Systems** Ki-Fung Calvin Cheung, 1987 Operating Systems William Stallings, 1998 Blending up to date theory with modern applications this book offers a comprehensive treatment of operating systems with an emphasis on internals and design issues The title provides a

solid understanding of the key mechanisms of operating systems and types of design tradeoffs and decisions *The New A+ Certification Training Guide* Charles J. Brooks, 1998 Electronic Design, 1983 **Peter Norton's Inside the PC** Peter Norton, John Goodman, 1997 With advice from the experts a user friendly hands on approach and a 16 page full colour insert this book helps users better understand their PC realise its potential foresee possible problems and make the right decisions

A+ Certification Theory and Study Guide Charles J. Brooks, 1998 The A Certification is a testing program that certifies the competency of service technicians in the computer industry Earning A Certification means that you possess the knowledge skills and customer relations skills essential to be a successful computer service technician Candidates for this certification can use this guide to study from hundreds of test questions and take simulated tests on the CD ROM

Proceedings Tencon, 1987 **Proceedings of the Trends in Electronics Conference**, 1987

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