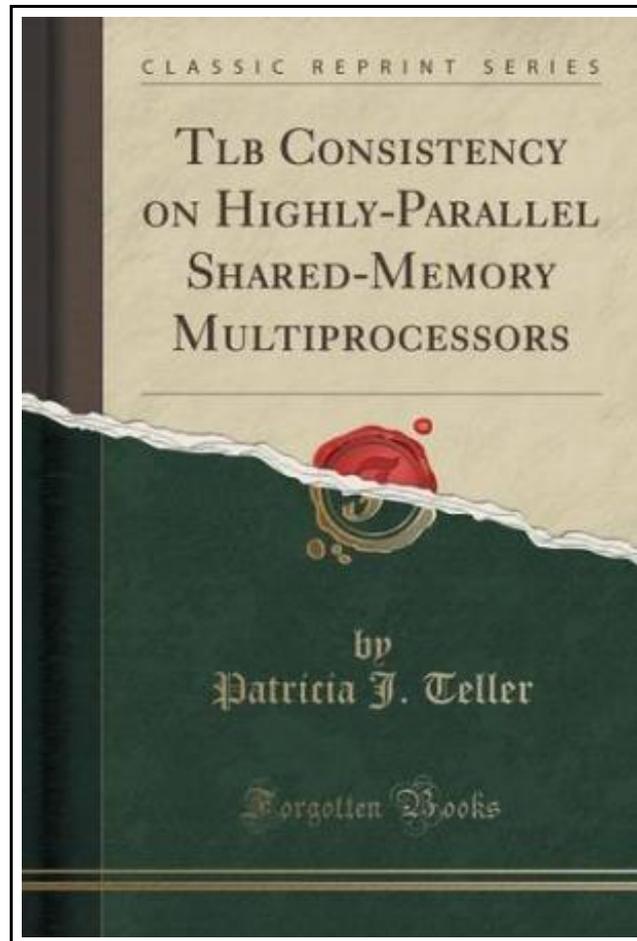# TLB Consistency on Highly-Parallel Shared-Memory Multiprocessors (Classic Reprint) (Paperback)

Filesize: 5.39 MB

Reviews

The book is straightforward in go through better to understand. it had been written quite flawlessly and valuable. You can expect to like the way the author publish this book.
(Reyes Murphy)

TLB CONSISTENCY ON HIGHLY-PARALLEL SHARED-MEMORY MULTIPROCESSORS (CLASSIC REPRINT) (PAPERBACK)

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Tlb Consistency on Highly-Parallel Shared-Memory Multiprocessors Multiprocessors that store the same shared data in different private caches must ensure these caches have consistent copies. Almost all known solutions to this cache consistency problem are only suitable for architectures with a few tens of processors (PEs). Efficient solutions to the TLB (translation lookaside buffer) consistency problem, a special case of the cache consistency problem, can be found for highly-parallel, shared-memory multiprocessors (HPSMMs) with many hundreds of PEs for the following reasons: the number of references to address translation information per modification is very large; the cache for storing translation information can be present anywhere on the path from the PEs to memory; when the memory mapping needs to be modified, one can often select which translation information to change; and obsolete mapping information can be used until permanent changes must be made. We present three general methods that exploit these features and can be used on HPSMMs to maintain TLB consistency. Tradeoffs are discussed and are related to overall system performance. Some interesting issues inherent to the TLB consistency problem and the support of a demand-paged virtual memory system on a HPSMM are also presented. Our methods demonstrate the use of alternative implementations of the classical readers-writers algorithm. 1. Introduction To match the relatively high speed of the CPU with the relatively low speed of a large, modest-cost memory, most computer systems use a hierarchical memory, where higher levels are faster but smaller. By exploiting the principle of locality (4), the average delay for memory access is little more than that of the fastest level. Most parallel programs exhibit locality of reference to shared code and...

📄 **Read TLB Consistency on Highly-Parallel Shared-Memory Multiprocessors (Classic Reprint) (Paperback) Online**

📄 **Download PDF TLB Consistency on Highly-Parallel Shared-Memory Multiprocessors (Classic Reprint) (Paperback)**

Related Kindle Books

Talking Digital: A Parent s Guide for Teaching Kids to Share Smart and Stay Safe Online (Paperback)

Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book. It is time for the digital talk. Today, kids are growing up in a wired world. Their...

[Read PDF »](#)

The Sunday Kindergarten Game Gift and Story: A Manual for Use in the Sunday, Schools and in the Home (Classic Reprint) (Paperback)

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from The Sunday Kindergarten Game Gift and Story: A Manual for...

[Read PDF »](#)

No Friends?: How to Make Friends Fast and Keep Them (Paperback)

Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Do You Have NO Friends ? Are you tired of not having any...

[Read PDF »](#)

History of the Town of Sutton Massachusetts from 1704 to 1876 (Paperback)

Createspace, United States, 2015. Paperback. Book Condition: New. annotated edition. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.This version of the History of the Town of Sutton Massachusetts...

[Read PDF »](#)

Crochet: Learn How to Make Money with Crochet and Create 10 Most Popular Crochet Patterns for Sale: (Learn to Read Crochet Patterns, Charts, and Graphs, Beginner s Crochet Guide with Pictures) (Paperback)

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Getting Your FREE Bonus Download this book, read it to the end and...

[Read PDF »](#)