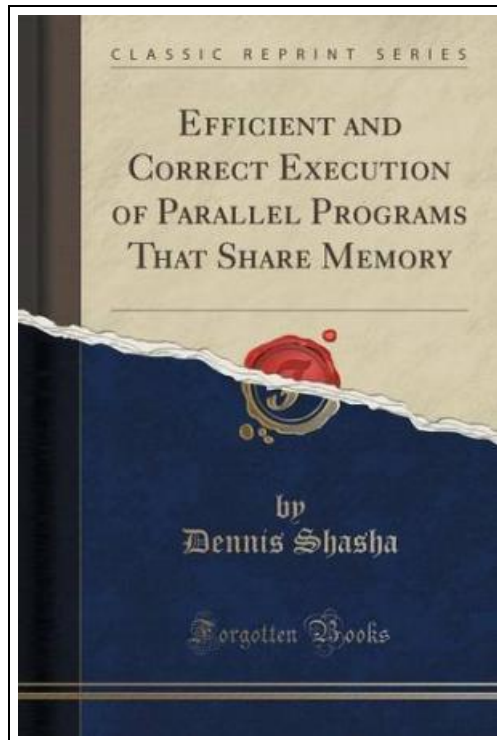


Efficient and Correct Execution of Parallel Programs That Share Memory (Classic Reprint)



Filesize: 3.39 MB

Reviews

*I just started reading this article pdf. it was actually writtern very properly and useful. You wont really feel monotony at whenever you want of your respective time (that's what catalogs are for relating to in the event you question me).
(Brandt Koss III)*

EFFICIENT AND CORRECT EXECUTION OF PARALLEL PROGRAMS THAT SHARE MEMORY (CLASSIC REPRINT)



Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Efficient and Correct Execution of Parallel Programs That Share Memory In this paper, we consider an optimization problem that arises in the execution of parallel programs on shared memory multiple-instruction stream multiple-data stream (MIMD) computers. A program on such a machine consists of many program segments each executed sequentially by a single processor. The processors have access to shared memory, and can execute standard memory access operations on this shared memory. This memory is distributed among many separate memory modules. A network connects processors to memory modules. Delays on this network are stochastic. Thus, operations issued by a processor to distinct memory modules may not be executed as memory requests on those modules in the order they were issued. For performance reasons, we want to allow one operation to begin before a previous one in the same instruction. Our analysis gives a method for determining which operations in a stream may be issued concurrently without changing the semantics of the execution. We also consider code where blocks of operations have to be executed atomically. This introduces the necessity of locks. We use a conflict graph similar to that used to schedule transactions in distributed databases. Our graph incorporates the order on operations given by the program text, enabling us to do without locks even when database conflict graphs would suggest that locks are necessary. 1. Introduction Programs on shared memory MIMD computers, e.g. the NYU Ultracomputer GKG or the IBM RP3 machine (PBG), consist of many program segments each executed sequentially by a single processor. The memory locations accessed by these programs are either locations in shared memory modules, or local memory locations, which we...



[Read Efficient and Correct Execution of Parallel Programs That Share Memory \(Classic Reprint\) Online](#)



[Download PDF Efficient and Correct Execution of Parallel Programs That Share Memory \(Classic Reprint\)](#)

Other eBooks



Some of My Best Friends Are Books : Guiding Gifted Readers from Preschool to High School

Book Condition: Brand New. Book Condition: Brand New.

[Save ePub »](#)



TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (3-5 years) Intermediate (3)(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the...

[Save ePub »](#)



TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the...

[Save ePub »](#)



After Such Knowledge: Memory, History, and the Legacy of the Holocaust

PublicAffairs. PAPERBACK. Book Condition: New. 1586483048 12+ Year Old paperback book-Never Read-may have light shelf or handling wear-has a price sticker or price written inside front or back cover-publishers mark-Good Copy- I ship FAST with...

[Save ePub »](#)



Weebies Family Halloween Night English Language: English Language British Full Colour

Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Children s Weebies Family Halloween Night Book 20 starts to teach Pre-School and...

[Save ePub »](#)



Book Finds: How to Find, Buy, and Sell Used and Rare Books (Revised)

Perigee. PAPERBACK. Book Condition: New. 0399526544 Never Read-12+ year old Paperback book with dust jacket-may have light shelf or handling wear-has a price sticker or price written inside front or back cover-publishers mark-Good Copy- I

[Save eBook »](#)



The Voyagers Series - Europe: A New Multi-Media Adventure Book 1

Strength Through Communications, United States, 2011. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.The Voyagers Series is a new multi-media, multi-disciplinary approach to teaching

[Save eBook »](#)



Games with Books : Twenty-Eight of the Best Childrens Books and How to Use Them to Help Your Child Learn - from Preschool to Third Grade

Book Condition: Brand New. Book Condition: Brand New.

[Save eBook »](#)



New KS2 English SAT Buster 10-Minute Tests: 2016 SATs & Beyond

Paperback. Book Condition: New. Not Signed; This is Book 2 of CGP's SAT Buster 10-Minute Tests for KS2 Grammar, Punctuation & Spelling - it's a brilliant way to introduce English SATS preparation in bite-sized chunks.

[Save eBook »](#)



Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade

Book Condition: Brand New. Book Condition: Brand New.

[Save eBook »](#)