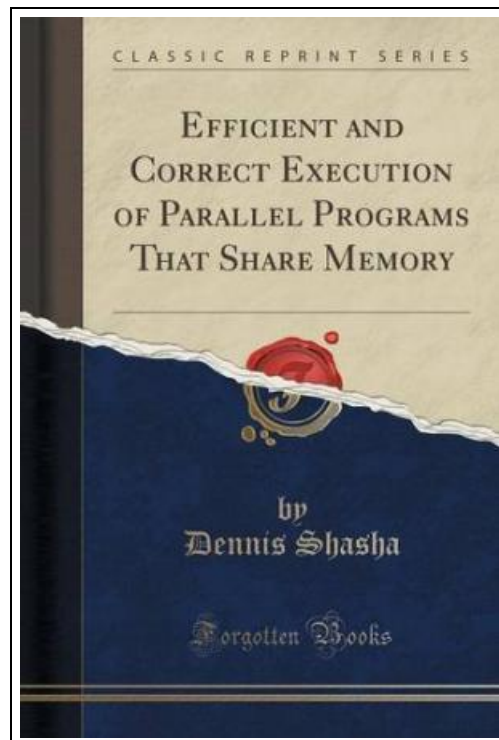


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EFFICIENT AND CORRECT EXECUTION OF PARALLEL PROGRAMS THAT SHARE MEMORY (CLASSIC REPRINT)

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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...

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