

Designing Efficient Algorithms For Parallel Computers

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Gabriele Capannini model defined for the novel massively parallel computing architectures such Designing Efficient Algorithms for Parallel Computers by Michael J. Buy Designing Efficient Algorithms for Parallel Computers by Michael J. Quinn ISBN: 9780071002493 from Amazon's Book Store. Free UK delivery on eligible

Parallel algorithms designed for simulation and performance evaluation of single-server tandem queueing systems with both infinite and finite buffers are presented. The algorithms exploit a simple computational procedure based on recursive equations as a representation of system dynamics. A brief analysis of the performance of the algorithms are given to show that they involve low time and memory requirements. Quinn, M. J., *Designing Efficient Algorithms for Parallel Computers*, McGraw-Hill, 1987. Quinn, M. J., *Parallel Computing: Theory and Practice*, McGraw-Hill, 1994. Reif, J. H. (ed.), *Synthesis of Parallel Algorithms*, Morgan Kaufmann, 1993. The field of parallel processing is concerned with architectural and algorithmic methods for enhancing the performance or other attributes (e.g., cost-effectiveness, reliability) of digital computers through various forms of concurrency. Even though concurrent computation has been around since the early days of digital computers, only recently has it been applied in a manner, and on a scale, that leads to better performance, or greater cost-effectiveness, compared with vector supercomputers.

Parallel Algorithm - Introduction - An algorithm is a sequence of steps that take inputs from the user and after some computation, produces an output. A parallel algorithm is an algorithm that can. Parallelism can be implemented by using parallel computers, i.e. a computer with many processors. Parallel computers require parallel algorithm, programming languages, compilers and operating system that support multitasking. In this tutorial, we will discuss only about parallel algorithms. So, while designing a parallel algorithm, proper CPU utilization should be considered to get an efficient algorithm. To design an algorithm properly, we must have a clear idea of the basic model of computation in a parallel computer. Model of Computation.