Abstract

This paper describes how a matrix operation (vector and transpose) can be performed in queueing parallel model by using multithreading software. Multithreading is useful in reducing the latency by switching among a set of threads in order to improve the processor utilization. Closed queueing network model is suitable for large number of job arrivals. The model is validated by comparison of analytical parallel and simulation result.

References

Computing a Matrix Transpose of Multithreading for Queuing Parallel in Matlab Programming

- Ricardo Bianchini, Beng-hong Lim, "Evaluating the Performance of Multithreading and Prefetching in Multiprocessors"; IBM, 1996.

Index Terms

Computer Science Algorithms

Keywords

Closed Queueing Network parallel programming simulation and computing