The paper shows the effect of parallelism in multicore architecture. Performance was evaluated based on the execution time of matrix multiplication between a sequential algorithm and a parallel algorithm in multicore processors. To implement matrix multiplication algorithms, the C programming language with OpenMP libraries was used under a Linux environment.

**Abstract**

This paper shows the effect of parallelism in multicore architecture. Performance was evaluated on the basis of the execution time of matrix multiplication between sequential algorithm and parallel algorithm in multicore processors. To implement matrix multiplication algorithms, the C programming language with OpenMP libraries was used under a Linux environment.

**References**

2. Cameron, H., Tracy, H., Professional Multicore programming, Wiley publication, 2008.
4. Rose M. P., “A Parallel Approach for Matrix Multiplication on the TMS320C4x DSP”,...
11. Jaeyoung C., A New Parallel Matrix Multiplication Algorithm on Distributed-Memory Concurrent Computers

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