Abstract

The advancement in technology has brought immense amount of changes in the design and productivity of applications designed for being used in the personal computers. By implementing greater number of cores to the same chip also results in facing challenges. In this case the challenge that is being faced is the core to core communication as well as the memory in addition to cache coherence. This paper presents a detailed analysis on performance of FFT
a divide and conquer algorithm across with the Multi-core architecture with Internal and external
network. The architectures are being defined using memory configuration and context
configuration with help of Multi2Sim 3. 4 simulator. The performance of these architectures
have been simulated with Splash 2 Benchmark.

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Index Terms

Computer Science
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Keywords
Multi-core Technology  Multi-core Issues  Splash2 Benchmark  Performance  Multi2sim Simulator