Abstract

The architectural advancements in desktop computing have made embedded devices in real time applications to adopt multi core architectures. The main challenge in multi core programming is the process of communication between the different executing cores. Effectiveness of parallel programming in multi core architectures lies in method used for communication. Communication using shared cache is one of the popular approaches. This paper discusses in detail one of the novel methods of inter core communication. Correctness of the algorithm has been based on results obtained on a hard real time system.

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Index Terms

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Keywords

Multi core, data bank, memory lock, functional split