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.

References

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Index Terms

Computer Science

Information Sciences

Keywords

Multi core, data bank, memory lock, functional split