Abstract

For variety of reasons comprising instruction level parallelism, power consumption and memory speed mismatch, many of the chip manufacturers are moving towards the development of multicore processors. Multiprocessors are considered as a powerful computing resource because of their reliability and high performance. Such Multiprocessor Real time system requires an efficient algorithm to determine when and on which processor a given task should execute. This paper presents a comparative study of different customized Multiprocessor scheduling algorithms which are for specific performance parameters and which maximizes the real time tasks that can be processed without violating timing constraints.

References


- Robart Devis, "FPZL Schedulability Analysis", IEEE Real time and embedded Technology and Application Symposium, 2011.
Index Terms

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Real Time Operating System  Multi-processor  Scheduling Algorithm