Abstract

Given paper contain proposed approached for task scheduling to achieve load balancing which is done on a group of computers. Consideration of process data part by dividing them into number of fixed part & merge into single set that as good as previous original data set. Parallelism an approach for doing jobs in amount of time i. e. very fast. The paper contains dynamic approach for process migration using thread level paradigm. Creating a thread of process into number of task, that leads to reduce total execution time of process. An algorithm is used to calculate PCB for decision purpose to achieve load balancing. We are taking CPU and MEMORY parameter in this approach. Fair share approach is considered to allocating task to every processor using preemption strategy. The MPI is used for process communication. This system has defined to reduce total execution time on onboard & between board times. Open knoppix & MOSIX platform (Middleware) are used to show the results. Prime number calculation code is used to show parallel architecture like SIMD computer. Cluster computing is way of resource managing & scheduling strategy.
References

An Approach for Load Balancing using Process Migration in Parallel System

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Index Terms

Computer Science

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Keywords

Cluster Computing  Mosix  Mpi  Load Balancing  Threads  Task Load  Onboard-time  Betweenbord Time