A Reliability Efficient Task Allocation Algorithm In A Distributed Computing System To Balance The Load On Processor For Achieving Maximum Throughput By Pankaj Saxena

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Abstract

The task allocation problem to balance the load on processors equally in a distributed computing system is the need to allocate a number of tasks to different processors systematically for execution. It is desired to maximize the processor utilization in order to achieve various objectives, such as to make the system more reliable and throughput maximization. In the present problem the number of tasks are more then the number of processors. In this paper, a new task allocation algorithm for the distributed computing environment is proposed. A Distributed Computing System (DCS) provides the users to access the shared resources. The achieved results show significant achievement in maximizing system reliability. Present algorithm describes the allocation of m tasks in distributed environment with n processors where (m>n).The presented algorithm neither overburdened the processor nor remain idle the processor for achieving the better results to balance the load on processor.

Keywords: Task allocation, Distributed environment, Processor, Distributed Computing System, load.

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