

ANALYSIS OF A DYNAMIC LOAD BALANCING IN MULTIPROCESSOR SYSTEM

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ABSTRACT

Dynamic load balancing is an important factor affecting the parallel computing performance in a multiprocessor system. On the basis of an introduction to the principle of dynamic load balancing algorithm, we will find the rated efficiency, throughput, speedup, performance of the multiprocessor systems , in case of load balancing we finds through analysis that the basic reason for overhead occurring in load balancing is the load migration, and then qualitatively gives the granularity formula of moving load each time, we proposes a new dynamic load balancing algorithm, defines the four possible states of the node, and discusses the implementation rule of the algorithm.

KEYWORDS: Multiprocessors System, Dynamic Load Balancing, Parallel Computing, Scheduling Algorithms