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A Cluster based Scheduling Algorithm (CBSA) for Multiprocessor Systems

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Abstract- The dynamic tasks scheduling of parallel tasks in multiprocessor systems is a challenging problem that is being experimented by the researchers. In this paper a Cluster based tasks scheduling model and a scheduling algorithm CBSA (Cluster based Scheduling algorithm) has been proposed with a lower time complexity. Furthermore, the simulation experiments show that, the scheduling model and scheduling algorithm are flexible a higher scheduling successful ratio may be obtained by this algorithm-for-parallel-jobs-with-large-number-of-tasks.

Key words-DAG, Dynamic Scheduling, Task, Multiprocessor, Schedule length, Homogeneous.

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