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Abstract

Grid computing is the form of distributed computing where the resources of various computers are shared to solve a particular problem. Grid can be used for a variety of purposes. Job scheduling is used to schedule the user jobs to appropriate resources in grid environment. The resources in the Grid are heterogeneous and geographically distributed with varying availability, and a variety of usage and cost policies for diverse users at different times vary with time. The management of resources and application scheduling in such a large and distributed environment is a complex task. In this paper, a survey of various job scheduling algorithms is made. The job scheduling algorithms are compared and contrasted based on the makes pan, flow time, resource utilization and completion time. They contribute to developing more efficient scheduling algorithms. This will help interested researchers carry out further work in this thrust area of research.

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Index Terms

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