

Resource management in computational grid

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In a grid environment, scheduling is substantially more complicated. Each cluster in the grid has the different local scheduling policies and an authentication issue. The main focus of the scheduling and resource management area is agreements and standards in Grid resource management; architecture, specifications for resources and requirements, queuing, scheduling and super-scheduling, starting and stopping jobs (task management), and accounting and logging. The set of resources with which the scheduler operates is dynamically changing as well as the work load. This situation calls for another level of scheduling to decide how the grid resources are allocated. This paper presents an algorithm for immediate reservations as advanced reservations with current time as the start time and a predefined length for the duration and the usage of resources as well as benefitable manner.

