

Resource renting for periodical cloud workflow applications

Abstract:

Cloud computing is a novel market-oriented distributed computing model enabling convenient access to a pool of sharable computing resources (e.g., networks, servers, storage) potentially distributed and in a seamless and straightforward way. In the Cloud, resources are owned by Cloud Service Providers (CSP) and are encapsulated as services. Cloud computing makes it convenient for users to access resources from anywhere and anytime with significant enhanced convenience and greatly reduced costs.

Existing system:

In the existing system Xu et al. proposed an algorithm for scheduling multiple workflows with several QoS constraints in cloud. Resources were encapsulated as services and are not sharable between workflows. Bittencourt et al. Proposed four different strategies for scheduling multiple workflows on fixed resources of Grids and evaluated them in terms of make span and fairness. Each task of workflows was executed only on one resource (processor).

Disadvantages:

1. Resources were limited and cost minimization was not considered.
2. the problem of scheduling multiple periodical workflow application with different arrival times has not been considered yet in cloud where resources are regarded as unlimited and shareable

Proposed system:

In the proposed the periodical workflow applications scheduling problem with total renting cost minimization is considered. The novelty of this work relies precisely on this objective function, which is more realistic in practice than the more commonly considered make span minimization. An integer programming model is constructed for the problem under study. A Precedence Tree based Heuristic (PTH) is developed which considers three types of initial schedule construction methods. Based on the initial schedule, two improvement procedures are presented. The

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proposed methods are compared with existing algorithms for the related make span based multiple workflow scheduling problem.

Advantages:

1. It improves the application performance
2. It reduces the cost when compared to existing systems

SYSTEM REQUIREMENTS

H/W System Configuration:-

- Processor - Pentium –III
- RAM - 256 MB (min)
- Hard Disk - 20 GB
- Key Board - Standard Windows Keyboard
- Mouse - Two or Three Button Mouse
- Monitor - SVGA

S/W System Configuration:-

- Operating System : Windows95/98/2000/XP
- Application Server : Tomcat5.0/6.X
- Front End : HTML, Jsp
- Scripts : JavaScript.
- Server side Script : Java Server Pages.
- Database : MySQL 5.0
- Database Connectivity : JDBC