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CLOUD WORKFLOW SCHEDULING WITH DEADLINES AND TIME SLOT AVAILABILITY

ABSTRACT:

Allocating service capacities in cloud computing is based on the assumption that they are unlimited and can be used at any time. However, available service capacities change with workload and cannot satisfy users' requests at any time from the cloud provider's perspective because cloud services can be shared by multiple tasks. Cloud service providers provide available time slots for new user's requests based on available capacities. In this paper, we consider workflow scheduling with deadline and time slot availability in cloud computing. An iterated heuristic framework is presented for the problem under study which mainly consists of initial solution construction, improvement, and perturbation. Three initial solution construction strategies, two greedy- and fair-based improvement strategies and a perturbation strategy are proposed. Different strategies in the three phases result in several heuristics.

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EXISTINGSYSTEM

Resources are generally provided in the form of services, especially in cloud computing. There are two common ways for service delivery: An entire application as a service, which can be directly used with no change. Basic services are combined to build complex applications, e.g., Xignite and StrikeIron offer Web services hosted on a cloud on a pay-per-use basis . Among a large number of services in cloud computing, there are many services which have same functions and supplied by different cloud service providers (CSPs). However, these services have different non-functional properties. Basic services are rented by users for their complex applications with various resource requirements which are usually modeled as workflows. Better services imply higher costs. Services are consumed based on Service-Level Agreements, which define parameters of Quality of Service in terms of the pay-per-use policy.

DISADVANTAGES

- Available service capacities change with workload and cannot satisfy users' requests at any time from the cloud Provider's perspective because cloud services can be shared by multiple tasks.

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- Cloud service providers (CSPs) services are rented by users for their complex applications with various resource requirements which are usually modeled as workflows. Better services imply higher costs.

PROPOSED SYSTEM

workflow scheduling with deadline and time slots constraints in cloud computing to minimize total costs. The problem was modeled as the WSDT which is more practical than the DTCTP. We proved that the WSDT had different properties from the DTCTP. The ILAH (iterated local adjusting heuristic) framework was proposed for the NP-hard WSDT. Three initial solution construction strategies were developed among which the MCARF and the MACF showed more effective than the EFTF on initial solution construction. Two improvement strategies, the FIH and the GIH, were introduced which had similar influences on the solution improvement. The FIH was very effective for improving poor solutions. By integrating the worst and best initial solution construction strategies (EFTF and MCARF) with the two improvement strategies, four ILAH-based algorithms were developed.

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ADVANTAGES

- The EFTF was the worst initial solution construction strategy.
EFTF was strange that the EFIG showed the best performance.
- However, the EGIH obtained the worst performance.
The EFTF was not sensitive to instance parameters while the EGIH was affected by most of the parameters

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SYSTEM REQUIREMENTS:

HARDWARE REQUIREMENTS:

- System : Pentium IV 2.4 GHz.
- Hard Disk : 40 GB.
- Floppy Drive : 1.44 Mb.
- Monitor : 15 VGA Colour.
- Mouse : Logitech.
- Ram : 512 Mb.

SOFTWARE REQUIREMENTS:

- Operating system : Windows XP/7.
- Coding Language : ASP.net, C#.net
- Tool : Visual Studio 2010
- Database : SQL SERVER 2008

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