Supercomputing facilitates and accelerates scientific discovery.

As a CloudSim virtualization platform, it is suitable for cloud computing workflows under fault tolerance and reliability. A comprehensive model and pricing structure for failure rate, and overall failure rate (OFR) are presented.

To conduct more experiments using real large-scale environments, modeling local storage performance with Middle Tennessee State University is conducted using different scheduling algorithms.

Problems and Objectives

Problem 1: Data center in cloud workflow applications on distributed architectures

Problem 2: Mobile execution time

Problem 3: Total cost of each task (seconds)

Solution

Distributed throughput optimization for large workflows in distributed environments.

PERFORMANCE EVALUATION AND COMPARISON

CONCLUSION AND FUTURE WORK

Selected References

Distributed Network Environments

INTRODUCTION

Resource and Performance Optimization of Big Data Scientific Workflows in Cloud Environments

Yi Gu, Dept. of Computer Science, Middle Tennessee State University

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Reference...