CSE 449

Design of Distributed Network Mass Data processing system based on cloud computing Technology.

Research Paper review
by

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Introduction

Welcome to the presentation on *Optimizing Mass Data Processing: Designing a Distributed Network System with Cloud Computing*. In this session, we will explore the key concepts and strategies for efficient data processing at scale. We will also discuss the benefits of leveraging cloud computing technologies for building distributed network systems.

Abstractions Levels can be divided up to three parts.

1. MapReduce by Google

2. Functional Data Parallel Model by Microsoft's Dryadlinq

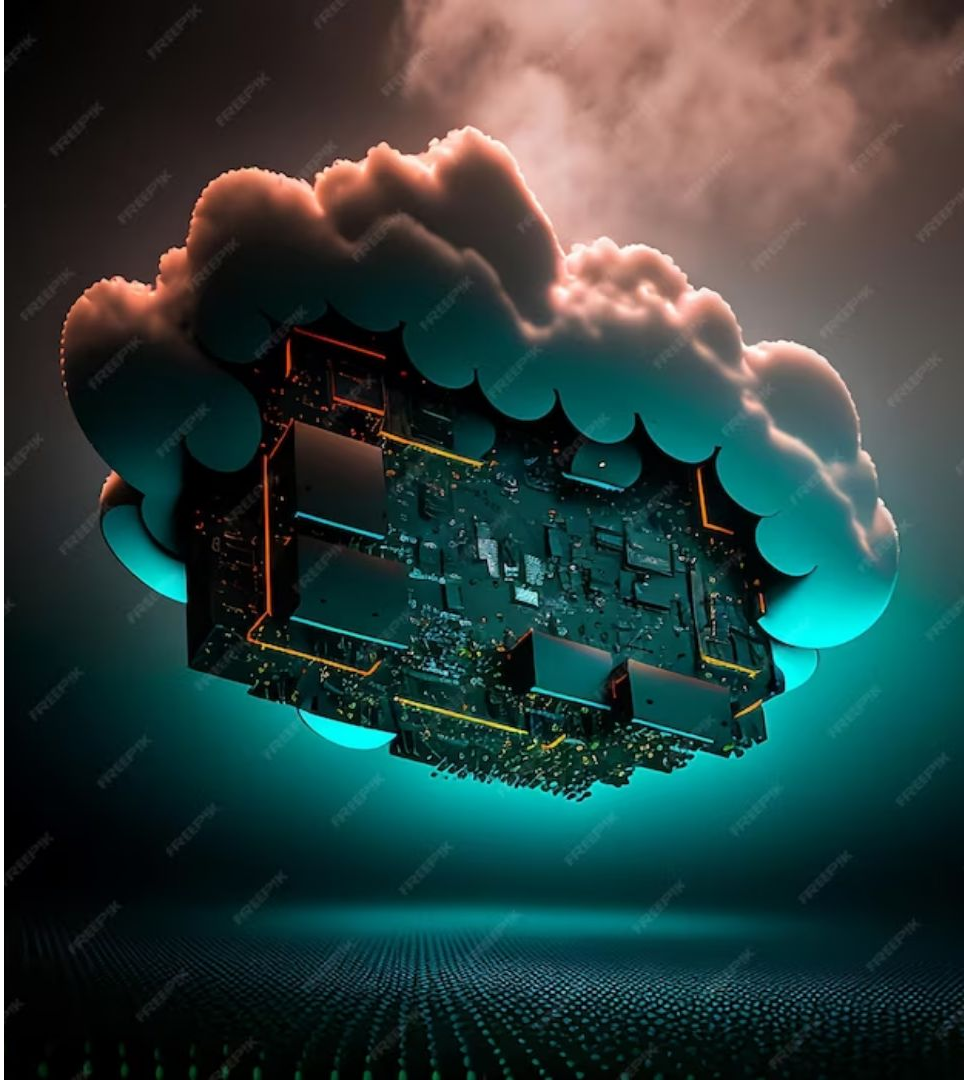
3. Domain Specific Data Parallel Model

Proposed Methodology

A. Map reduce for iterative Computing

B. Design of Distributed Task Scheduling System

C. Distributed Collaborative Computing Mechanism



Experiment

A Comparative test on performance optimization effect of DECA program optimization.

Five typical Spark Benchmark applications were tested Which Included Word Counting, Web Sorting, Connected Sub Graph Computation etc.

Conclusion

The author has combined the existing MapReduce programming model with a custom cloud computing security model for distributed computing to get privacy protection in cloud computing. According to the authors tests and experiment it is highly efficient and has high security.

Thanks!

J. Gong, "Design of Distributed Network Mass Data Processing System based on Cloud Computing Technology," 2021 5th International Conference on Trends in Electronics and Informatics (ICOEI), Tirunelveli, India, 2021, pp. 1317-1320, doi: 10.1109/ICOEI51242.2021.9452963.