

19 Lecture - CS501

Important Mcqs

1. **What is Pipelined SRC used for?**

- A) Computing certain types of matrix operations
- B) Sorting data in a database
- C) Running simulations in virtual environments
- D) None of the above

Answer: A

What does SRC stand for in Pipelined SRC?

- A) Simple Reduction Complex
- B) Symbolic Reduction Complex
- C) Sequential Reduction Complex
- D) None of the above

Answer: B

What is the benefit of using Pipelined SRC for matrix computations?

- A) Faster computation times
- B) More accurate results
- C) Lower memory usage
- D) None of the above

Answer: A

What is the main drawback of Pipelined SRC?

- A) It is not suitable for large-scale matrix computations
- B) It is prone to errors
- C) It requires specialized hardware
- D) It can introduce additional overhead

Answer: C

How does Pipelined SRC work?

- A) By breaking down a matrix into smaller sub-matrices and computing them in parallel pipelines
- B) By converting a matrix into a graph and performing computations on the graph
- C) By using statistical methods to estimate matrix operations
- D) None of the above

Answer: A

What applications is Pipelined SRC commonly used for?

- A) Signal processing
- B) Machine learning
- C) Scientific computing
- D) All of the above

Answer: D

What is the significance of pipelining in Pipelined SRC?

- A) It allows for faster computation times by computing sub-matrices in parallel

- B) It reduces the memory usage of the algorithm
- C) It ensures more accurate results
- D) None of the above

Answer: A

Which of the following is a challenge in implementing Pipelined SRC?

- A) Pipeline hazards
- B) Instruction reordering
- C) Data forwarding
- D) None of the above

Answer: D

Which stage of the pipeline in Pipelined SRC computes the final result?

- A) Instruction fetch
- B) Instruction decode
- C) Execute
- D) Write-back

Answer: D

What is pipeline depth in Pipelined SRC?

- A) The number of pipeline stages used in the algorithm
- B) The number of sub-matrices into which the matrix is broken down
- C) The number of computational units used in parallel pipelines
- D) None of the above

Answer: A