# Parallel Computing

Practice Exam

Difficulty: easy

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**Parallel Computing Practice Exam - Easy**

****Section 1: Multiple Choice (1 point each)****

****Instructions:** Choose the best answer for each multiple-choice question.**

**1. Which of the following is NOT a primary advantage of parallel computing?**

a) Increased processing speed for large tasks
b) Reduced memory usage per process
c) Ability to handle complex problems beyond the capacity of single processors
d) Faster completion of tasks that can be broken into smaller, independent subtasks

**Answer:** _____

****Section 2: Short Answer (2 points)****

****Instructions:** Briefly answer the following question.**

**2. Explain the concept of "embarrassingly parallel" problems in the context of parallel computing. Give a simple example.**

**Answer:** _____
_____
_____
_____

****Answer Key:****

**1. b) Reduced memory usage per process (While parallel computing can *sometimes* lead to better memory management through techniques like distributed memory, it's not a primary advantage.)**

**2. Embarrassingly parallel problems are tasks that can be easily divided into completely independent subproblems, with minimal need for communication or coordination between the subproblems. A simple example is rendering an image: each pixel can be processed independently by a different processor without any need for interaction with other pixels' processing.**

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