## Parallel Computing - MCQ 1

Multiple Choice Questions on Parallel Computing

Электронная почта * galeev.tr@edu.spbstu.ru
<ul> <li>When is it most beneficial to use multithreading in parallel computing?*</li> <li>When the program requires a high degree of parallelism and independent tasks.</li> <li>When the program primarily involves sequential tasks.</li> <li>When the program is single-threaded and doesn't require parallelism.</li> <li>When the program needs to execute a single task as quickly as possible.</li> </ul>
Statement: In parallel computing systems, as the number of processors increases, with enough parallelism available in applications.  True False  Комментарий  Great

In computer programming, what does "serial execution" refer to? *
Running multiple tasks simultaneously on multiple processors.
Executing tasks one after another in a sequential manner on a single processor.
Running multiple threads concurrently in a parallel fashion.
Distributing tasks across a cluster of computers for improved performance.
Your Name *  Тимур Галеев
The time required to create a new thread in an existing process is*
greater than the time required to create a new process
less than the time required to create a new process
equal to the time required to create a new process
one of the mentioned

Parallel computing can be used in *
Science and engineering
O Database and data mining
Real time simulation of systems
Intensive calculations
All of the above
Комментарий Great
A process can be*
both single threaded and multithreaded
single threaded
one of the mentioned
multithreaded

A parallel computing system consists of multiple processor that communicate * with each other using a
Network
O Shared memory
None of the above
Allocated memory
Комментарий
The correct answer is shared memory
When deciding whether to use a CPU (Central Processing Unit) or GPU (Graphics * Processing Unit) for a computational task, which factor is typically the most important to consider?
The physical size of the CPU and GPU.
The power consumption of the CPU and GPU.
The specific algorithm and type of computation.
The manufacturer of the CPU and GPU.
In a multithreading context, what is the primary purpose of the threading start * function?
To initialize thread-local storage.
To terminate a thread's execution.
To begin the execution of a new thread.
To synchronize access to shared resources.

In a multithreaded program, how many threads are typically alive at any given * time?
Only one thread is alive.
Two threads are alive.
It can vary, and multiple threads can be alive simultaneously.
None of the above.
Комментарий
Multiple threads can be active simultaneously, each performing its own tasks concurrently. The number of threads can change dynamically as threads are created, executed, and terminated based on the program's requirements.

Компания Google не имеет никакого отношения к этому контенту. - <u>Условия использования</u> - <u>Политика конфиденциальности</u>

Google Формы