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## **On The Scalability Of Parallel**

The scalability study of tree parallelization is suggesting that perfect strength-speedup beyond a certain number of cores may not be possible due to the scaling limits of single threaded search....

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We use this relationship to predict

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parallel scaling for time scales beyond what can be empirically evaluated due to the immense computation required. Our results show that MCTS can scale nearly perfectly to at least 64 threads when combined with virtual loss, but without virtual loss scaling is limited to just eight threads.

## **On the Scalability of Parallel UCT | SpringerLink**

Software is said to exhibit scalable parallelism if it can make use of additional processors to solve larger problems, i.e. this term refers to software for which Gustafson's law holds.

## **Scalable parallelism - Wikipedia**

The performance and scalability of parallel programs (MPI and OpenMP) are discussed. OpenMP quicksort spawns  $t$  threads each of them handle a partition of the array. Each thread uses the serial `qsort()` from the C libraries [6].

## **[PDF] On the Scalability of Parallel Quicksort : A Case ...**

The scalability of a parallel algorithm on a parallel architecture is a measure of its capacity to effectively utilize an increasing number of processors. Scalability analysis may be used to select the best algorithm-architecture combination for a problem under different constraints on the growth of the problem size and the number of processors. It may be used to predict the performance of a parallel algorithm and a parallel architecture for a large number of processors from the known ...

## **Analyzing Scalability of Parallel Algorithms and ...**

Abstract: Scalability has become an important consideration in parallel algorithm and machine designs. The word scalable, or scalability, has been widely and often used in the parallel processing community. However, there is no adequate, commonly accepted definition of scalability available.

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## **Scalability of parallel algorithm-machine combinations ...**

Scalability has become an important consideration in parallel algorithm and machine designs. The word scalable, or scalability, has been widely and often used in the parallel processing community....

## **(PDF) Scalability of parallel algorithm-machine combinations**

The isoefficiency function is one of many parallel performance metrics that measure It relates problem size to the number of processors required to maintain a system's efficiency, and it lets us determine scalability with respect to the number of processors, their speed, and the communication bandwidth of the interconnection network.

## **Isoefficiency Measuring the Scalability of Parallel ...**

The beta curve represents an application

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that is somewhat scalable, i.e., good speedups can be attained by increasing the workload but the efficiency deteriorates a little faster. The theta curve represents an application where very high efficiency can be achieved because there is so much data that can be processed in parallel.

## **Performance and scalability of applications in parallel ...**

**Parallel Scalability** A common task in HPC is measuring the scalability (also referred to as the scaling efficiency) of an application. This measurement indicates how efficient an application is when using increasing numbers of parallel processing elements (CPUs / cores / processes / threads / etc.).

## **Measuring Parallel Scaling Performance - Documentation**

Ideal parallel computer systems (architecture+class-of-algorithms) are linearly scalable. They allow to solve a series of increasingly larger problems by

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using more processors and maintain the machine efficiency and the execution time constant. Most of the practical parallel systems are nonlinearly scalable.

## **Scalability of Parallel Systems: Efficiency Versus ...**

Scalability is the property of a system to handle a growing amount of work by adding resources to the system.. In an economic context, a scalable business model implies that a company can increase sales given increased resources. For example, a package delivery system is scalable because more packages can be delivered by adding more delivery vehicles. However, if all packages had to first pass ...

## **Scalability - Wikipedia**

The performance of a parallel algorithm is determined by calculating its speedup. Speedup is defined as the ratio of the worst-case execution time of the fastest known sequential algorithm for a

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particular problem to the worst-case execution time of the parallel algorithm.

## **Parallel Algorithm - Analysis - Tutorialspoint**

Current Bottlenecks in the Scalability of OpenFOAM on Massively Parallel Clusters 9 diagonal matrix  $D$  is represented by a scalarevector of  $n_{cells}$  elements. The upper and lower triangular parts  $L$  and  $U$  are instead stored by means of 2 label vectors and 2 scalar vectors of  $n_{faces}$  elements.

## **Current Bottlenecks in the Scalability of OpenFOAM on ...**

This paper examines the scalability of several types of parallel genetic algorithms (GAs). The objective is to determine the optimal number of processors that can be used by each type to minimize t... This paper examines the scalability of several types of parallel genetic algorithms (GAs).

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## **Genetic Algorithms ...**

Scalability is a characteristic of a system, model or function that describes its capability to cope and perform under an increased or expanding workload. A system that scales well will be able to ...

## **Scalability Definition - Investopedia**

Oracle Parallel Execution. Oracle Database 19c builds on the industry-leading scalability of earlier releases. Oracle's extensive parallel processing is at the heart of its scalability. Not only is parallelism central to data warehousing and query processing, it plays a key role in Oracle's ability to process large volumes of data.

## **Parallel Execution - Oracle**

Evolutionary Computation Volume 7, Number 4 Scalability of Parallel GAS The execution time of the parallel program is the sum of communication and computation times: where  $g$  is the domain-dependent number of generations until convergence,  $n$  is the deme size,  $T$  is

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the time of one fitness evaluation, and  $T_c$  is the time required to communicate with one neighbor.

## **On the Scalability of Parallel Genetic Algorithms ...**

An important distinction in parallel server architectures is internal versus external parallelism; this has a strong effect on scalability. The key difference is whether the object-relational database management system (ORDBMS) parallelizes the query, or an external process parallelizes the query.

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