# On The Scalability Of Parallel Uct Springer

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## On The Scalability Of Parallel
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
We use this relationship to predict 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
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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 | Proceedings of the ...

7.7 Scalability. • Scalability is a measure of a parallel system's capacity to increase speedup in proportion to the number of processors. •Example Adding n numbers cost-optimally Well-known Amdahl's law dictates the achievable speedup and efficiency. n pp n p S E n p p np S p p n T. p 2log 2 log 2 log .

### Parallel Computing Chapter 7 Performance and Scalability

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 ...

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

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.

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

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

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

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

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

Scalability of Parallel GAs guidelines for simple GAs are directly applicable; (2) they are very easy to implement, which makes them popular with practitioners; and (3) in many cases master-slave GAs result in

## On the Scalability of Parallel Genetic Algorithms

It is found that the scalability of a parallel computation is essentially determined by the topology of a static network, i.e., the architecture of a parallel computer system.

## AVERAGE-CASE SCALABILITY ANALYSIS OF PARALLEL COMPUTATIONS ...

the scalability of parallel systems and develop a framework for studying the inter-play between applications and architectures. Using this framework, we study the scalability of five parallel scientific applications on shared memory platforms with three different network topologies. We illustrate the power of this

## Issues in Understanding the Scalability of Parallel Systems

As a consequence of Moore's law, the size of integrated circuits has grown extensively, resulting in simulation becoming the major bottleneck in the circuit design process. Consequently, parallel simulation has emerged as an approach which can be both fast and cost effective. In this paper, we examine the performance of a parallel Verilog simulator on four large, real designs.

## On the Scalability of Parallel Verilog Simulation

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.

## Scalability and Oracle Parallel Server

chemistry have shown that for special domain geometries, the one-level parallel Schwarz method can be scalable. This property is not true in general, and the issue of quantifying the lack of scalability remains an open problem. Even though heuristicexplanations are given in the literature, a rigorous and

## On the Scalability of the Parallel Schwarz Method in One ...

DOI: 10.1109/ICCSIT.2009.5234581 Corpus ID: 16420229. OSMark: A benchmark suite for understanding parallel scalability of operating systems on large scale multi-cores @article{Cui2009OSMarkAB, title={OSMark: A benchmark suite for understanding parallel scalability of operating systems on large scale multi-cores}, author={Y. Cui and Yu Chen and Y. Shi}, journal={2009 2nd IEEE International ...

## OSMark: A benchmark suite for understanding parallel ...

If the hardware supports cut-through routing, then this threshold can also be overcome by using an alternate less scalable parallel formulation. The scalability analysis for the mesh connected multicomputers reveals that FFT cannot make efficient use of large-scale mesh architectures unless the bandwidth of the communication channels is increased as a function of the number of processors.

## The Scalability of FFT on Parallel Computers — Experts ...

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 ...