

Bioinformatics High Performance Parallel Computer Architectures Embedded Multi Core Systems

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Bioinformatics High Performance Parallel Computer

A compilation of recent approaches from prominent researchers, Bioinformatics: High Performance

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Parallel Computer Architectures discusses how to take advantage of bioinformatics applications and algorithms on a variety of modern parallel architectures. Two factors continue to drive the increasing use of modern parallel computer architectures to address problems in computational biology and bioinformatics: high-throughput techniques for DNA sequencing and gene expression analysis—which ...

Bioinformatics: High Performance Parallel Computer ...

Because the amount of publicly available sequence data is growing faster than single processor core performance speed, modern bioinformatics tools need to take advantage of parallel computer architectures. Now that the era of the many-core processor has begun, it is expected that future mainstream processors will be parallel systems.

Bioinformatics: High Performance Parallel Computer ...

Bioinformatics: High Performance Parallel Computer Architectures (Embedded Multi-Core Systems) Bertil Schmidt. New sequencing technologies have broken many experimental barriers to genome scale sequencing, leading to the extraction of huge quantities of sequence data. This expansion of biological databases established the need for new ways to harness and apply the astounding amount of available genomic information and convert it into substantive biological understanding.

Bioinformatics: High Performance Parallel Computer ...

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Bioinformatics High Performance Parallel Computer ...

Our group has completely developed from scratch a computer program for performing VS called BINDSURF, last publication reported in: Sánchez-Linares, I., Pérez-Sánchez, H., Cecilia, J. M. & García, J. M. High-Throughput parallel blind Virtual Screening using BINDSURF. BMC Bioinformatics

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13, S13 (2012).

BINDSURF | Bioinformatics and High Performance Computing ...

A compilation of recent approaches from prominent researchers, Bioinformatics: High Performance Parallel Computer Architectures discusses how to take advantage of bioinformatics applications and algorithms on a variety of modern parallel architectures. Two factors continue to drive the increasing use of modern parallel computer architectures to address problems in computational biology and bioinformatics: high-throughput techniques for DNA sequencing and gene expression analysis?which have ...

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The role of High Performance Computing in Bioinformatics Horacio Perez-Sanchez, Jose M. Cecilia, and Ivan Merelli Bioinformatics and High Performance Computing Research Group (BIO-HPC) Computer Science Department Universidad Católica San Antonio de Murcia (UCAM), Guadalupe E30107, Spain {hperez,jmcecilia}@ucam.edu Institute for Biomedical ...

The role of High Performance Computing in Bioinformatics

Readers are provided with a mixture of algorithms, experiments, and simulations that provide not only qualitative but also quantitative insights into the dynamic field of bioinformatics. Parallel Computing for Bioinformatics and Computational Biology is a contributed work that serves as a repository of case studies, collectively demonstrating how parallel computing streamlines difficult problems in bioinformatics and produces better results.

Parallel Computing for Bioinformatics and Computational ...

Abstract. In the last 10 years, we are witnessing one of the major revolutions in parallel systems. The consolidation of heterogeneous systems at different levels -from desktop computers to large-

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scale systems such as supercomputers, clusters or grids, through all kinds of low-power devices- is providing a computational power unimaginable just few years ago, trying to follow the wake of Moore ...

Applications of High Performance Computing in ...

Two factors continue to drive the increasing use of modern parallel computer architectures to address problems in computational biology and bioinformatics: high-throughput techniques for DNA sequencing and gene expression analysis-which have led to an exponential growth in the amount of digital biological data-and the multi- and many-core revolution within computer architecture.

Bioinformatics: High Performance Parallel Computer ...

Bioinformatics could greatly benefit from increased computational resources delivered by High Performance Computing. However, the decision-making about which is the best architecture to deliver good performance for a set of Bioinformatics applications is a hard task.

Leveraging High Performance Computing for Bioinformatics ...

High-Performance and Parallel Computing Today's computing systems, whether portable, desktop, cloud, or supercomputer, must deliver high performance, high confidence, good programmability, and a reasonable cost. Our work in this area focuses on designing the software and hardware for these systems, with a focus on parallel computing techniques that allow many processors to work together to ...

High-Performance and Parallel Computing

COPACOBANA is a massively-parallel reconfigurable computer. It can be utilized to perform a so-called Brute force attack to recover DES encrypted data. It consists of 120 commercially available, reconfigurable integrated circuits . These Xilinx Spartan3-1000 run in parallel, and create a

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massively parallel system. Since 2007, SciEngines GmbH has enhanced and developed successors of COPACOBANA.

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