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## **High Performance Computing Hpc Fusion**

The computing power of HPC-FF, for High Performance Computer For Fusion, is a valuable new tool for plasma physicists. Modelling requires extensive computer resources; increasingly realistic simulations that are able to take into account the full ITER plasma—and not just a part—will accelerate fusion research, and pave the way for optimum operation of ITER.

## **High performance computing for fusion - ITER**

High performance computing (HPC) is one of the most essential tools fueling the advancement of science. By leveraging GPU-

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powered parallel processing across multiple compute nodes, it can run advanced, large-scale application programs efficiently, reliably, and quickly.

## **High Performance Computing Products and Solutions | NVIDIA**

The new European HPC facility for Fusion is in operation since July 2016. It replaces, for European fusion researchers, the Helios supercomputer installed in Japan in the context of the Broader Approach agreement. The supercomputer is hosted at CINECA and it is a fraction of the MARCONI system.

## **MARCONI-FUSION: The new high performance computing**

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Special provisions for High Performance Computing (HPC) are being recommended in the fusion roadmap as essential facilities to support basic research and the modelling effort for the various

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objectives.

## **MARCONI-FUSION: The new high performance computing**

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HyperWorks is the most comprehensive open-architecture simulation platform in the PLM market, offering technologies to design and optimize high performance, efficient and innovative products. solidThinking delivers innovative technology with a streamlined user experience. Its tools empower users to design, engineer, manufacture, and deliver products to market faster than ever before.

## **High Performance Computing Solutions | HPC Experts - Altair**

High-performance computing (HPC) is the use of super computers and parallel processing techniques for solving complex computational problems. HPC technology focuses on

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developing parallel processing algorithms and systems by incorporating both administration and parallel computational techniques.

## **What is High-Performance Computing (HPC)? - Definition**

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The Department of Defense (DoD) High Performance Computing Modernization Program (HPCMP) is pleased to announce its newest supercomputing capability in support of the DoD Test and Evaluation (T&E), Acquisition Engineering (AE), and Science and Technology (S&T) communities.

## **High Performance Computing ... - Home - HPCpublic**

The NVIDIA ® CUDA ® programming model is the platform of choice for high-performance application developers, with support for more than 550 GPU-accelerated applications—including the top 15 high performance computing (HPC) applications. From

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weather prediction and materials science to wind tunnel simulation and genomics, NVIDIA GPU-accelerated computing is at the heart of HPC's most promising areas of discovery.

## **High Performance Computing Solutions | NVIDIA Data Center**

HPE and our global partners have created a high performance computing (HPC) ecosystem to help solve the world's most complex problems. We continuously collaborate, build, validate and deliver secure, innovative, production-level HPC solutions with leading-edge technologies and services.

## **High Performance Computing Solutions - Reliable, Available ...**

We have helped a wide range of customers around the world of High-Performance Computing (HPC) and related areas such as cloud computing and machine learning by providing training and

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tutorials, multi-year professional services contracts, benchmarking services, focused consulting projects, impartial procurement expertise, strategic and technical ...

### **HPC - High Performance Computing, Supercomputing & Cloud**

Cineca's aim is to accelerate the scientific discovery by providing high performance computing resources, data management, as well as HPC services and expertise. Moreover, Cineca provides technical and scientific services related to high-performance computing to the Italian and European research community.

### **High performance computing | Cineca**

Latest field-deployable parallel computing subsystems optimize big data workloads for mission-critical platforms. Mercury Systems, Inc. unveiled the EnterpriseSeries™ RES AI rugged rackmount server line, bringing High Performance Computing

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(HPC) capabilities to aerospace, defense and other mission-critical applications at the edge.

### **New Rugged Supercomputing Servers Enable AI, HPC and**

...

Today, IBM, in collaboration with the DOE, launched the COVID-19 High Performance Computing Consortium. The Consortium will help aggregate computing capabilities from some of the most powerful and advanced computers in the world to help researchers everywhere better understand COVID-19, its treatments and potential cures.

### **IBM & DOE Launch COVID-19 High Performance Computing ...**

This 3-year Research Experience for Undergraduate (REU) site will be focused on High Performance Computing (HPC), a field critical to national security, scientific discovery, and



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technological innovation. The goal of this project is to encourage 30 talented undergraduate students to pursue graduate study and careers in HPC by engaging them in ...

## **NSF REU Site**

Electronic Design Automation involves 3D modeling, fluid dynamics, and other compute-intensive processes that require high-performance computing (HPC) data center solutions. These applications use highly-coupled parallel algorithms that can be very sensitive to communication fabric and framework latencies.

## **High Performance Computing Solutions | Mellanox Technologies**

eXtremeDB for High Performance Computing (HPC) is rich in features DBMS with the power and speed to do what you want, when you want, with the flexibility to create, alter and scale your high performance project on demand. With in-memory and

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persistent storage capabilities Clustering, High Availability, and Sharding, it scales efficiently and easily.

## **AWS Marketplace: eXtremeDB for HPC**

wahab.hpc.odu.edu Funded through a grant from the National Science Foundation's Major Research Instrumentation Program, the Wahab cluster offers substantial computational power to critical research projects in disciplines including cybersecurity, resilience and data-intensive science and engineering.

## **HPC Compute Resources - Old Dominion University**

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## **High Performance Computing (HPC) Research Papers ...**

SDSC is committed to remaining at the forefront of not only high-performance computing (HPC), but in innovating new processes

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to make scientific research more efficient and robust in what has become an ever-increasing collaborative community.

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