



PE & MMS

PRODUCT ENGINEERING & MOBILITY SOLUTION | HIGH PERFORMANCE COMPUTING



HIGH PERFORMANCE COMPUTING

When performance is non-negotiable

Some computational problems are simply too large for garden variety computers to handle. When enterprises require raw teraflops to tackle the task in hand, Wipro's High Performance Computing (HPC) can help. These tasks could relate to predicting weather patterns, computing market trends, fluid dynamics, or oil exploration.

With Wipro you can finally care about results, not how you get to them.

What we offer

The High Performance Computing Group enhances the performance of applications through parallelization, multi-threading, distributed computing on Multi-Core, GPGPU, Clusters, Grid and Cloud platforms.

The work of the High Performance Computing Group extends across several verticals that include Credit Risk, Medical Image processing, Drug Discovery, Seismic & Reservoir modeling, Pricing & Supply Chain Management, Crash analysis, Video editing & mixing, Genomic search, among others.

HPC and the problems that Wipro can mitigate

- Locating, isolating, and eliminating bottlenecks in your cluster
- Identifying areas where minimal investments can yield maximum results
- Running diverse hardware and operating systems
- Maximizing resource utilization without disproportionate user training and administrative overheads
- Avoiding upfront investments that are typically high with HPC infrastructure

High Performance. At every stage.

HPC Assessment and Consulting - Application Requirement Analysis, Business Case Analysis, Evaluation of multiple HPC architectures, Trade-off Analysis and HPC recommendations, Grid and cloud migration assessment.

HPC Application Re-engineering - Application Migration to HPC infrastructure (Grid, Cloud, Cluster), Application Optimization, Parallelization (MPI, Open-MP, CUDA), Development and execution of benchmarks, Benchmarking and system tuning, HPC workflow optimization.

HPC Product Engineering - Development and maintenance of HPC HW and SW components for HPC servers, Development and maintenance of HPC infrastructure components (Storage, HPC interconnects, network switches etc.).

HPC Assessment and Consulting - Application Requirement Analysis, Business Case Analysis, Evaluation of multiple HPC architectures, Trade-off Analysis and HPC recommendations, Grid and cloud migration assessment.

HPC Infrastructure Services - HPC infrastructure design (sizing, architecture), HPC infrastructure Setup and Administration, Administration of Cluster and Grid management tools, HPC Hosting and Managed Services, 24x7 support through Global Command Center.

Wipro's High Performance Computing Solutions:

The power to succeed

- We helped banks generate derivative price, model derivative risk portfolio, analyze investment portfolio by evaluating economic forecasts and millions of variables.
- We helped insurance companies to do scenario planning by aiding actuaries in modeling risk processing millions of scenarios and analyzing risk.
- HPC helped oil and gas industry to process seismic data in the upstream exploration by modeling and visualizing oil and gas wells and basins.
- We worked with manufacturing companies in designing, virtual prototyping, modeling and simulation of the product by accelerating complex computation like Computational Fluid Dynamics and Finite Element Analysis, Assembly line simulations, Supply chain modeling and logistics planning etc.

Dynamics and Finite Element Analysis, Assembly line simulations, Supply chain modeling and logistics planning etc.



About Wipro Technologies

Wipro Technologies, the global IT business of Wipro Limited (NYSE:WIT) is a leading Information Technology, Consulting and Outsourcing company, that delivers solutions to enable its clients do business better. Wipro Technologies delivers winning business outcomes through its deep industry experience and a 360° view of “Business through Technology” – helping clients create successful and adaptive businesses. A company recognised globally for its comprehensive portfolio of services, a practitioner’s approach to delivering innovation and an organization wide commitment to sustainability, Wipro Technologies has 130,000 employees and clients across 54 countries.

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