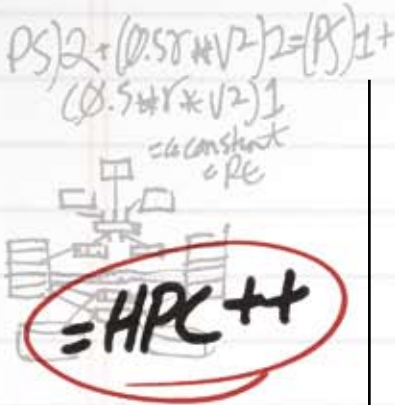


LY PRODUCTIVE HIGH PERFORMANCE COMPUTING



PARTNER PROFILE

ANSYS, Inc. is the designer of engineering simulation solutions that are used in a broad spectrum of global industries. ANSYS, Inc., founded in 1970, develops and globally markets engineering simulation software and technologies that are widely used by engineers and designers in turbo machinery, aerospace, automotive and electronics, among other industries. The company focuses on the development of open and flexible solutions that enable users to analyze designs directly on the desktop, providing a common platform for fast, efficient and cost-conscious product development, from design concept to final-stage testing and validation. ANSYS and its global network of channel partners provide sales, support and training for customers in over 40 countries throughout the world.

Mechanical Modeling made Faster, Cheaper, Easier

ANSYS® Mechanical™ combined with ANSYS Mechanical HPC and Windows® HPC Server 2008 enable engineers to perform highly realistic structural simulations quickly and easily, with minimal administrative overhead, and the added security and manageability benefits that working with Microsoft Active Directory directory services brings.

CHALLENGE

To accurately simulate the real-world performance of product designs and engineering processes requires the use of complex mathematical algorithms. These algorithms involve long computation times unless a high-performance computing (HPC) solution is used. HPC increases solution speeds and reduces the turnaround time of complex computations. However, until recently HPC solutions have been expensive and difficult to administer and manage, making them unattainable for all but the most well-funded design teams.

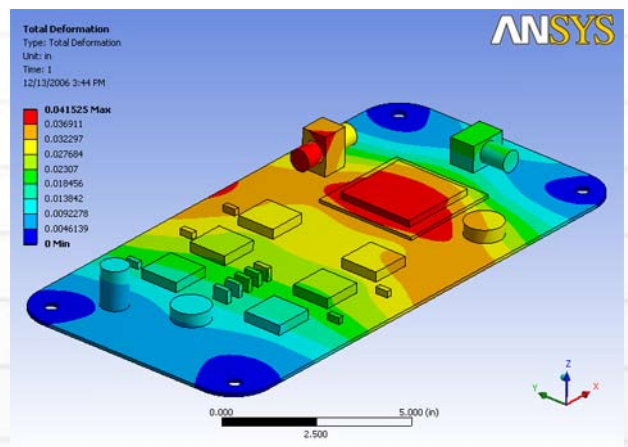
SOLUTION

ANSYS structural mechanics products now support Windows Server 2008. This Windows-based HPC platform is easy to set up, use, and provides the processing speed necessary to run complex simulations on clusters of affordable, industry-standard 64-bit hardware. The combination of Windows HPC Server 2008, ANSYS Mechanical and ANSYS Mechanical HPC can increase your productivity and help you deliver better and more innovative products in less time.

ANSYS MECHANICAL

The ANSYS Mechanical family of products offers full depth of analysis, from concept simulation to advanced analysis, and a breadth of simulation capabilities from linear to nonlinear coupled physics analysis. ANSYS Mechanical provides simulation tools with a complement of nonlinear and linear elements, and material laws ranging from metal to rubber. ANSYS Mechanical also contains the most comprehensive set of solvers available, including parallel solvers when combined with ANSYS Mechanical HPC. These products are built upon years of proven and reliable technology and are widely used across industries from automobile, aerospace, biomedical, electronics and consumer products.

ANSYS Workbench™ is an integrated environment from which you can access CAD, meshing tools, model parameters, and ANSYS Mechanical, all from one intuitive user interface. When combined with ANSYS Mechanical HPC, you can also access HPC cluster resources.



Deflection results of a Thermal Stress analysis of a PCB



WINDOWS HPC SERVER 2008

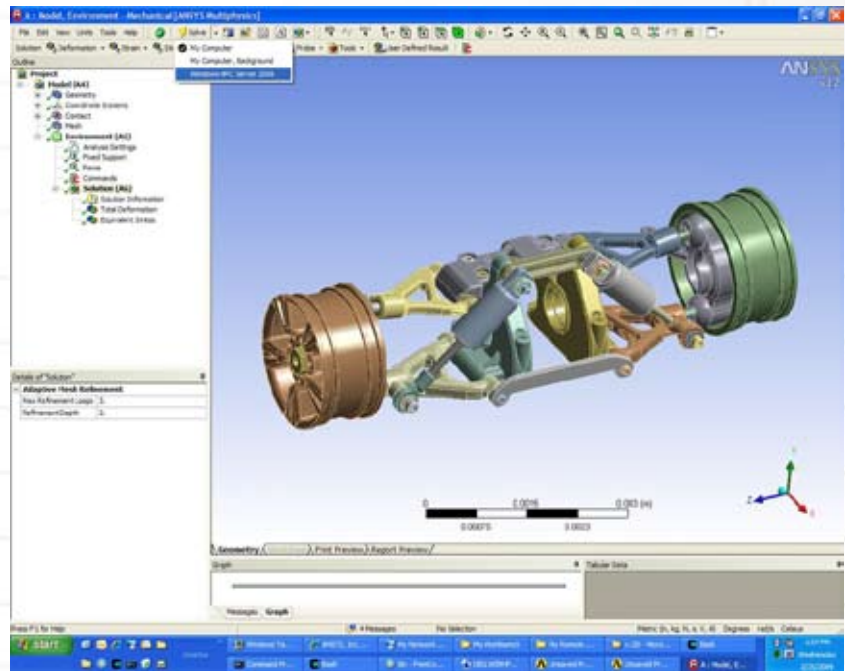
Windows HPC Server 2008 brings the value of an integrated HPC solution and a productive development environment to customers for whom HPC has been out of reach in the past. Windows HPC Server 2008 enables organizations to:

- Improve productivity of systems administration and cluster interoperability by dramatically simplifying the overall deployment, administration, and management over the entire system lifetime, while ensuring interoperability with existing systems infrastructure.
- Rapidly develop HPC applications using Visual Studio® 2008, which provides a comprehensive parallel programming environment. In addition to supporting standard interfaces such as OpenMP, Message Passing Interface (MPI) and Web services, Windows HPC Server 2008 also supports third-party numerical library providers, performance optimizers, compilers, and debugging toolkits.

- Seamlessly scale from workstation to cluster by allowing end users to harness the power of distributed computing through a familiar Windows-based desktop environment without requiring specialized skills or training.

WORKING TOGETHER

Running ANSYS Mechanical with ANSYS Mechanical HPC on Windows HPC Server 2008 increases the performance of this dynamic simulation software, enabling you to achieve realistic simulation of product performance faster, cheaper, and easier than with HPC platforms of the past.



ANSYS Workbench user interface

ARCHITECTURE

Windows HPC Server 2008 Server head node:

- Controls and mediates all access to the cluster resources.
- Acts as the single point of management, deployment, and job scheduling for the compute cluster.

Windows HPC Server 2008 uses the existing corporate infrastructure and Active Directory for:

- Security
- Account management
- Operations management

BENEFITS

Together, ANSYS Mechanical and Windows HPC Server 2008 offer many benefits to organizations:

- Higher-fidelity simulations
- Throughput for more simultaneous simulations
- Faster turn-around time
- Ease of deployment
- Increased return on investment (ROI) on simulation

FURTHER INFORMATION

For more information about Windows HPC Server 2008 and HPC, please visit <http://www.microsoft.com/hpc>

For more information about ANSYS, Inc., please visit <http://www.ansys.com>

For more information about ANSYS products on Windows HPC Server 2008, please visit <http://www.ansys.com/corporate/partners/company/microsoft.asp>

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