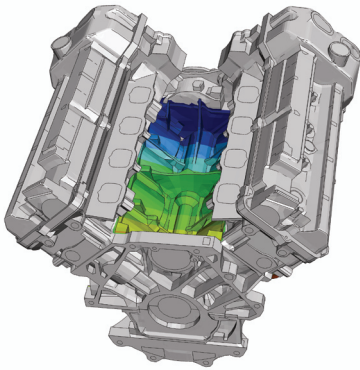


Platform™

Clusters Made Simple with Platform LSF® and Abaqus FEA from SIMULIA®



Raising the Bar in Product Development with Realistic Simulation

In today's competitive product development environment, engineers need to evaluate the detailed behavior of a complex assembly, understand the behavior of new materials from a variety of sources, or simulate a discrete manufacturing process. The Abaqus Unified FEA product suite from SIMULIA is routinely employed by leading companies in industries as diverse as automotive, aerospace, defense, biomedical and consumer products. Abaqus FEA is unmatched in its integration of implicit and explicit FEA capabilities that enables the use of results of one type of simulation directly in a subsequent analysis to capture the history effects, such as the impact of manufacturing processes on product performance.

Benefits

- HPC (High Performance Computing) enables large, more realistic simulations to be performed in less time
- Cluster servers can scale up with demand improving capacity and project planning
- Reduced IT cost can be achieved by using commodity based computing solutions
- Centralized computing resources enable collaboration with distributed teams
- Platform Open Cluster Stack (OCS)* coupled with Platform LSF is the first commercial software system used to create certified Intel® Cluster Ready systems that enable the consistent delivery of scale-out clusters.

Abaqus Unified FEA takes advantage of the latest high performance, parallel computing environments, allowing you to include details in your models previously excluded due to computing limitations. To utilize this computational functionality, Abaqus users are turning to cost effective cluster-servers as a reliable computing solution to handle increasingly demanding performance requirements. By distributing simulation solvers to dozens or hundreds of computing nodes, run-times are dramatically reduced. When your engineers can see results overnight, rather than having to wait for days, the whole design process changes – from one of lengthy delays to one of high productivity associated with a more interactive process. Reduced analysis turnaround time enables the examination of more detailed design scenarios and results in a higher quality product. However, as the simulation demands increase so does the need for high performance computing (HPC) resources.

Platform LSF can ensure that your costly IT assets are fully utilized while improving workload throughput and allowing for more simulations, better testing, and shorter development cycles. Using Platform LSF in conjunction with Abaqus software provides engineers with a dramatically improved compute facility while reducing development costs and improving product quality.

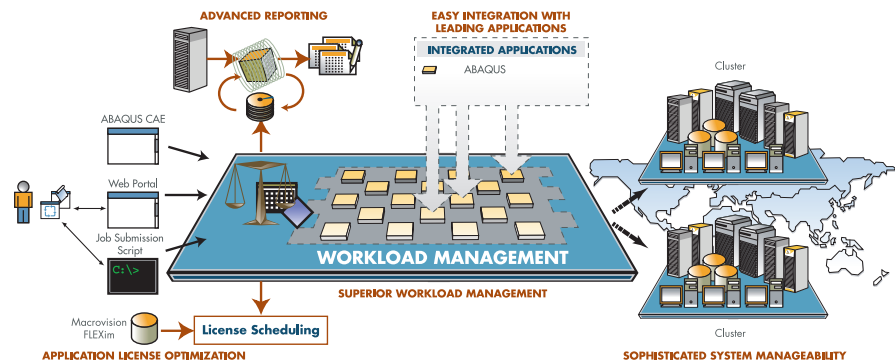
Who Needs this Solution

Any engineering organization using either Abaqus' implicit or explicit solvers that requires additional resources to run more computationally intensive simulations or increase the number of concurrent simulations of any size

Platform Computing's team of HPC systems engineers has worked with independent software vendors (ISVs) such as SIMULIA to ensure customer satisfaction. Platform Computing currently maintains close business relationships with over 20 ISVs and establishes single points of contact to promote understanding and deep code knowledge. Platform also has an established Partner Alliance Network to ensure that all software vendors developing CAE applications, as well as operating system and hardware vendors, receive the attention and continuous support they deserve for rapid deployment at customer sites.

Products in Solution

- Platform LSF for workload management
- Web portal for remote batch job submission and simulation management
- Platform Open Cluster Stack cluster management (optional)
- Integration with Abaqus Unified FEA



Note regarding Platform OCS 4.4.0: This product includes software developed by the Rocks Cluster Group at the San Diego Supercomputer Center at the University of California, San Diego and its contributors.

About SIMULIA

SIMULIA is the Dassault Systèmes brand that delivers a scalable portfolio of Realistic Simulation solutions including the Abaqus product suite for Unified Finite Element Analysis, multiphysics solutions for insight into challenging engineering problems, and lifecycle management solutions for managing simulation data, processes, and intellectual property. By building on established technology, respected quality, and superior customer service, SIMULIA makes realistic simulation an integral business practice that improves product performance, reduces physical prototypes, and drives innovation. www.simulia.com

Platform LSF

Platform LSF, is the industry leading workload management software used by Fortune 100 automotive and aerospace manufacturers globally. Platform LSF includes an easy to use web-based, user interface that simplifies job submission to your HPC environment. In addition, it is integrated with the most widely used CAE software solutions for crash, durability and fluid dynamics.

Platform Open Cluster Stack (OCS) is a pre-integrated, vendor certified, software stack that enables the consistent delivery of scale-out application clusters. Platform OCS is the first commercial software system used to create certified Intel Cluster Ready systems enabling a new class of users by simplifying Linux® cluster application, deployment and management. Backed by available, global 24x7 enterprise support, Platform OCS is a modular and hybrid stack that transparently integrates open source and commercial software into a single consistent cluster operating environment.

The Integrated Solution

The integration with Platform LSF and Platform OCS accelerates Abaqus simulations while providing users with transparent access to a heterogeneous distributed computing resource environment. With a deeper managed compute capacity users are able to run larger and more detailed simulations than was previously possible. Users will also have the ability to run more exhaustive sets of test cases in a finite time period. Platform LSF and Platform OCS allow your engineering team to deliver faster, more reliable designs by leveraging all existing resources. By allowing engineers and designers to focus on business-critical process design and execution rather than IT and resource availability, your product quality is able to improve dramatically within the bounds of time and budget restrictions.

Platform and Abaqus users are able to leverage an easy-to-use web-based, user interface that simplifies job submission to your HPC environment. Geographically distributed teams are able to collaborate via an engineering portal and security is improved by reducing the number of users with direct access to the cluster.

Today, developing products and processes that meet aggressive performance and cost targets requires unified simulation tools that not only produce realistic results but also enable collaboration throughout the enterprise. The combination of Abaqus Unified FEA software and Platform's workload management software enables businesses to improve product quality and reduce the time to market with lower costs for new products. This solution will also maximize the IT infrastructure asset utilization resulting in higher ROI, lower infrastructure costs, and opportunities for capital cost avoidance.



Platform™

Platform Computing is a pioneer and the global leader in High Performance Computing (HPC) management software. The company delivers integrated software solutions that enable organizations to improve time-to-results and reduce computing costs. Many of the world's largest companies rely on Platform to accelerate compute or data intensive applications and manage cluster and grid systems. Platform has over 2,000 global customers and strategic relationships with Dell™, HP, IBM®, Intel®, Microsoft®, Red Hat® and SAS®, along with the industry's broadest support for HPC applications. Building on 16 years of market leadership, Platform continues to define the HPC market. Visit www.platform.com.

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