

Platform™



The Platform Computing & The MathWorks Solution

Overview of Solution

MATLAB Distributed Computing Toolbox 3.0 includes a supported integration with Platform LSF. This integration greatly simplifies running MATLAB on Platform LSF clusters. For large computing requirements, complex scheduling or security requirements, this integration enables the execution of MATLAB applications distributed on a well supported, production hardened solution combining the MATLAB Distributed Computing Toolbox and Platform LSF.

Target Markets

Platform and The MathWorks customers will benefit from extensive application and heterogeneous infrastructure support utilizing a comprehensive set of intelligent scheduling policies. Customers with complex scheduling challenges from a broad spectrum of industries will benefit from this integration. The industries include: Aerospace and Defense, Automotive, Communications, Electronics, Financial Services, Pharmaceutical, Medical Device and Delivery, Biotech, Energy and Education.

Challenges

- Managing a distributed environment with multiple hosts
- Lack of central control to available resources
- Aligning resources for the right business results
- Manual operations managing multiple jobs
- Managing jobs in a mixed environment
- Managing MATLAB jobs in a large cluster

Benefits

- Optimizes utilization against service level policies
- Obtains greater productivity gains
- Achieves lowest cost of ownership
- Reduces risk and complexity
- Built on Platform Enterprise Grid Orchestrator™

Improve Application Utilization with Grid Computing

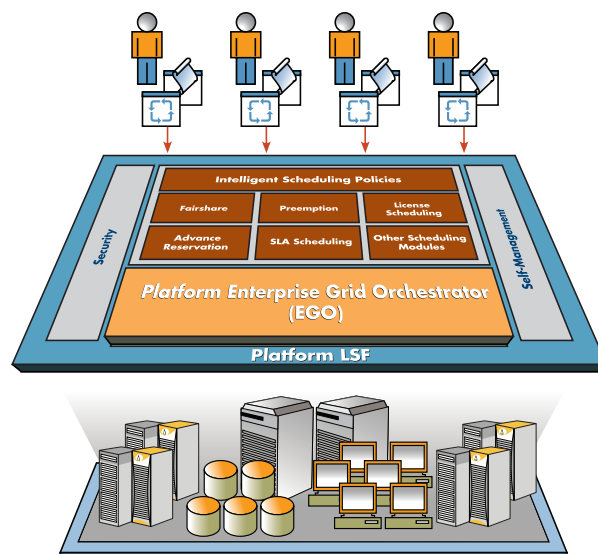
The MathWorks and Platform Computing solution enables intelligent, policy-driven scheduling of compute and data intensive applications to solve complex technical problems and perform model-based design. The solution provides simple, efficient, and documented access to running MATLAB jobs on existing Platform LSF clusters. Users can intelligently schedule and guarantee the completion of mixed MATLAB and non-MATLAB workloads across a distributed, virtualized IT environment, fully utilizing all IT resources. Extending to under utilized computers including servers, workstations and desktops of various operating systems, organizations can harness unused cycles available throughout their entire enterprise. For large computing requirements, complex scheduling or security requirements, this solution enables the distribution of MATLAB applications on a well supported, production hardened solution combining the MATLAB Distributed Computing Toolbox and Platform LSF.

Underpinning Platform LSF is the scalable application infrastructure software Platform Enterprise Grid Orchestrator™ (EGO). Platform EGO provides a flexible and modular way to orchestrate virtualization and business-critical applications into a single, cohesive, efficient system. By de-coupling resource management from workload management, Platform EGO can effectively allocate, prioritize and manage the supply of resources with business policies across all enterprise resources. This functionality provides organizations the ability to scale up on a scale out architecture while improving application performance and utilization, as well as better Service Level Agreement (SLA) management. Platform EGO leverages Platform leadership in grid computing to offer the strength and reliability of grid computing to an enterprise comprised of the many hundreds to tens of thousands of CPUs.

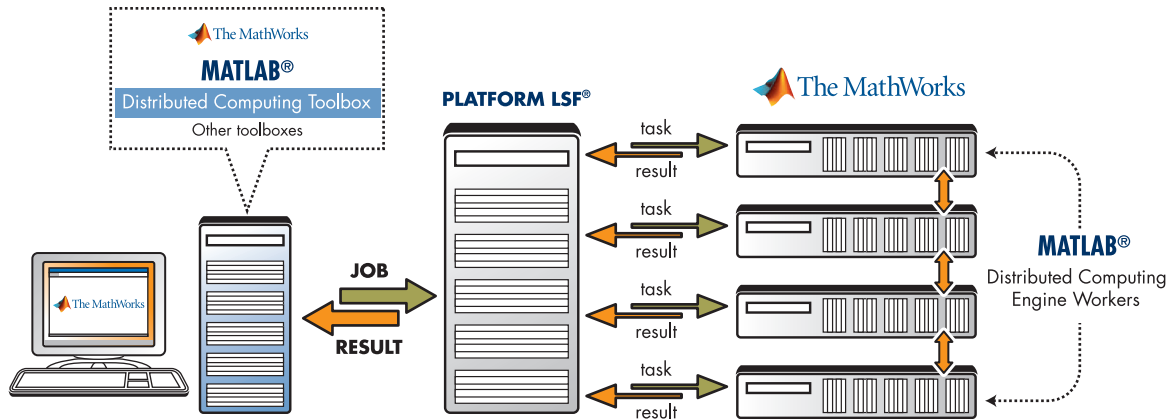
Platform Products

PLATFORM LSF®

Platform LSF and MATLAB distributed computing tools solves complex scheduling requirements to prioritize jobs among users or user groups.



MATLAB Distributed Computing Engine



Differences between deploying Distributed Computing tools + Platform LSF versus Distributed Computing tools + The MathWorks Job Manager

With Platform LSF	With MATLAB Distributed Computing Engine Job Manager
For clusters that require advanced monitoring and scheduling capabilities	For clusters that don't require advanced monitoring and scheduling capabilities
For customers with existing Platform LSF cluster	Requires less time to schedule job For customers that want to run a MATLAB cluster
For customers with complex security and scheduling requirements such as the need to prioritize jobs among users or user groups	For customers that need to run interactive jobs with simple scheduling and security requirements
For customers who desire to run other applications on their cluster along with MATLAB	For customers who want to run only MATLAB applications on their cluster

Platform Support

FEATURES	BENEFITS
24x7 Hotline Support	<ul style="list-style-type: none"> Provides access to continuous support for production critical issues Minimizes downtime, saving you time and money Ensures maximum performance and availability of your Platform Solutions
eSupport	<ul style="list-style-type: none"> Allows you to submit, monitor and update support tickets online Offers flexibility and gives you more control in the issue resolution process Coming Soon: Access to our extensive knowledge base of FAQ's and Technical Notes
Support Mailing List Subscription	<ul style="list-style-type: none"> Patch and Product updates emailed to you on a monthly basis Security Alerts sent when security issues arise Notification of major issues of concern to our customers
Software Upgrades	<ul style="list-style-type: none"> With new features and functions, you will always have access to cutting-edge technologies and industry-leading functionality Access to performance and reliability enhancements ensures that your investment in Platform products will be maintained