



Platform LSF[®] Session Scheduler

Introducing breakthrough new session scheduling for Platform LSF[®]

Highlights:

- Ultra low-latency scheduling
- New short-duration task engine
- No code changes
- Existing job semantics are preserved
- Resource accounting for workload run through Platform Session Scheduler appears in normal Platform LSF[®] accounting files

Benefits:

- Significant improvement in overall cluster performance on clusters with a heavy short job load
- Produce results faster than ever
- Improve designs with more detailed simulations
- Improve productivity
- Reduce complexity in your HPC environment
- Extend your investment in Platform LSF

Ideal for customers who:

- Deal with increasing numbers of short-duration jobs
- Have latency-bound workloads
- Run large numbers of related simulation jobs

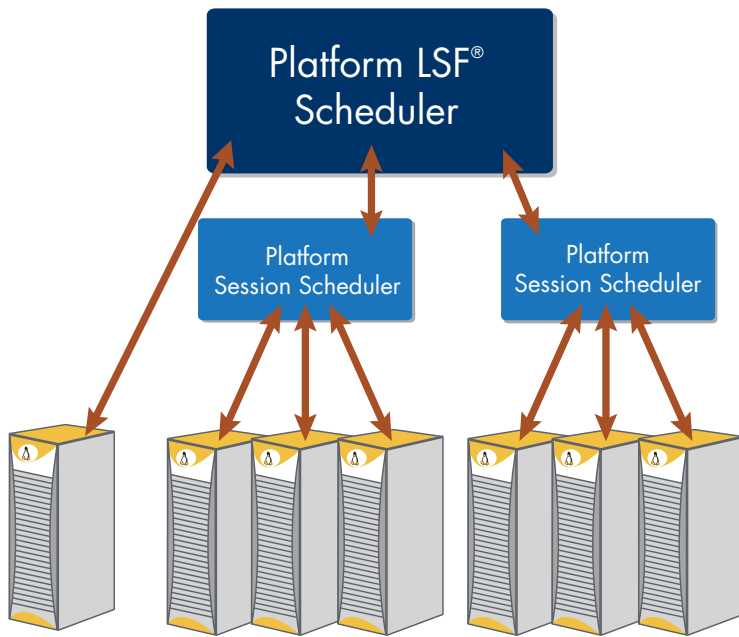
New scheduling flexibility

High Performance Computing (HPC) users are accepting tradeoffs – the huge productivity gains of state of the art, scalable workload, are balanced by the challenges of managing very large numbers of short duration simulation jobs that increasingly characterize applications in industries such as Electronics. HPC users have grown accustomed to the resulting long job dispatch times and inefficient clusters. They are forced to adjust their workloads to address the constraints of the workload scheduler, often at considerable cost and complexity. In many instances it takes much longer to set up short jobs than the actual time it takes to run them, resulting in inefficiencies in system performance.

No need to trade speed for volume

Platform LSF 7 Update 3 gives users the best of both worlds – speed and volume. Platform LSF is software for managing and accelerating workload processing for compute-and data-intensive applications. With Platform LSF, you can intelligently schedule and guarantee completion of workloads across a distributed, virtualized IT environment regardless of operating system, including desktops and servers.





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Platform's latest release introduces the concept of a session scheduler – a breakthrough innovation that brings a new low-latency, high-throughput scheduling paradigm to clustered computing environments. With the new session scheduler, customers can realize the benefits of high-throughput, low-latency task submission without needing to re-architect applications.

Extreme performance complements simplicity of workload scheduling

With this new add-on capability, Platform LSF allocates appropriate resources once, which are re-used for multiple related tasks. The millisecond-latency session scheduler then runs tens of thousands of related tasks using existing job submission and management semantics. Users benefit from extreme performance while preserving the simplicity of a batch scheduling paradigm – yet another reason why Platform LSF 7 is simply the best workload manage solution for your HPC datacenter.

Platform LSF Session Scheduler provides a new approach to scheduling large numbers of short duration jobs. Hundreds or even thousands of users can now process jobs individually comprised of over 50,000 tasks per user with exceptionally low-latency and minimal involvement of the Platform LSF workload scheduler. Customers employing this scheduling approach can continue to use familiar Platform LSF features including pre- and post-execution scripts, job starters and job arrays. By fully supporting Platform LSF job semantics, existing scripts can be easily modified to take advantage of this powerful new scheduling approach.

Whether your large-scale computing problem is in semiconductor design analysis, vehicle crash simulation or pharmaceutical research, experienced high-performance datacenter managers will appreciate the rich new capabilities in Platform LSF 7 Update 3.



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 and 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 15 years of market leadership, Platform continues to define the HPC market. Visit www.platform.com.

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