

# Cross-Platform Solutions

## Unified Ease-of-Use Experience

Adaptive Computing enables organizations to unify the HPC user, admin and manager experience across multi-scheduler environments on a per-service basis with their cross-scheduler solutions.

## Avoid Fragmentation-based Waste

Organizations commonly encounter increased heterogeneity of their underlying HPC scheduler environment as hardware vendors bid differing solutions, peer departments set up different schedulers, and organizations pick up new systems through acquiring other entities.

This either leaves the overall organization in an unproductive disarray of technology requiring constant re-training or hinders collaboration and increases waste as departments continue to silo off their own resources and manage their own redundant administrative efforts.

## Best-in-Class Cross-Platform Solutions

Adaptive Computing's new Cross-Platform Products solve this problem by enabling best-in-class offerings to be purchased individually and to be applied across third-party schedulers.



## Cross-Platform Solutions Attributes

- **Licensing Modularity**
  - **Per Component Pricing:** Buy what you want, when you want it
- **Cross-Platform Support**
  - **Choice:** Moab Cloud for the HPC Suite, TORQUE, Slurm, SGE/UGE, LSF, PBS Pro,
  - **Viewpoint Portal**
  - **Nitro High Throughput**
  - **Remote Visualization**
  - **Reporting and Analytics**
  - **Accounting Manager**

**Moab VIEWPOINT** Welcome, moab-admin [Sign Out](#)

HOME WORKLOAD TEMPLATES NODES FILE MANAGER SESSIONS CONFIGURATION

Search

Refresh Interval 15s

Job ID	Job Name	Submitter ID	Start Date	Submit Date	Queue Status	Count	Nodes	Wall Clock
job-33200	None	mmills	N/A	2016-09-29 16:39:27	ELIGIBLE	1	0	00:11:06:40
job-33199	None	jfoote	N/A	2016-09-29 16:38:01	ELIGIBLE	1	0	00:00:15:00
job-33198	None	van13	N/A	2016-09-29 16:37:29	ELIGIBLE	1	0	00:02:00:00
job-33197	None	jburton	N/A	2016-09-29 16:36:25	ELIGIBLE	1	0	00:05:00:00
job-33196	None	tanaka	N/A	2016-09-29 16:34:17	ELIGIBLE	1	0	00:05:00:00
job-33195	None	evals	N/A	2016-09-29 16:32:33	ELIGIBLE	1	0	00:22:13:30
job-33194	None	evals	N/A	2016-09-29 16:29:08	ELIGIBLE	1	0	00:22:13:30
job-33193	None	paraview	N/A	2016-09-29 16:29:07	COMPLETED	4	1	00:12:00:00
job-33192	None	lgates	N/A	2016-09-29 16:28:11	ELIGIBLE	1	0	00:22:13:30
job-33191	None	anastasi	N/A	2016-09-29 16:25:50	ELIGIBLE	1	0	00:05:00:00
job-33190	None	awok	N/A	2016-09-29 16:25:48	ELIGIBLE	1	0	00:02:00:00
Moab-09	desktop	tpcutter	2016-09-29 16:25:08	2016-09-29 16:25:07	COMPLETED	2	1	00:12:00:00
job-33189	None	uflinton	2016-09-29 16:25:06	2016-09-29 16:23:07	ACTIVE	1	1	00:02:00:00
job-33188	None	efordyle	2016-09-29 16:23:29	2016-09-29 16:19:15	ACTIVE	1	1	00:00:15:00
job-33187	None	evals	2016-09-29 16:36:57	2016-09-29 16:18:43	ACTIVE	1	1	05:20:26:40
Moab-08	anays	tpcutter	2016-09-29 16:25:03	2016-09-29 16:17:05	COMPLETED	1	1	00:05:00:00
job-33186	None	evals	2016-09-29 16:34:29	2016-09-29 16:13:41	ACTIVE	1	1	00:22:13:30
job-33185	None	wallfort	2016-09-29 16:32:05	2016-09-29 16:12:49	ACTIVE	1	1	00:05:33:20
job-33184	None	jburton	2016-09-29 16:29:07	2016-09-29 16:05:04	ACTIVE	1	1	00:05:33:20

**Dedicated System Resources**

CPU MEMORY

24h...

**Node Summary**

22 NODES

View All Nodes

**Workload Summary**

180 JOBS

View All Workload

Viewpoint Job Submission Portal Dashboard

Adaptive Computing customers can standardize on Moab Cloud and TORQUE, Slurm or other schedulers of their choice. Then they can apply the above best-in-class solutions on these systems as well as systems with non-matching schedulers, thereby maintaining a unified ease-of-use experience regardless of scheduler platform.

This allows new clusters that ship with alternate schedulers, or that are acquired through M&A activities to quickly become part of a productive overall experience.

# Cross-Platform Solutions (cont'd)

## Manager Benefits

Adaptive Computing's Cross-Platform Solutions allow business managers to achieve a unified accounting of usage across heterogeneous scheduler environments as well as to gain deeper insight into utilization, capacity planning and efficiency through unified reporting and analytics. Additionally, it allows them to more rapidly ensure integration and productivity from consolidation projects or newly acquired business units.

## User Benefits

Users don't have to be retrained on each new cluster purchase and new users can achieve productivity quickly by using the Viewpoint Submission Portal. A unified Remote Visualization experience also helps users to become more personally productive and better able to collaborate from remote locations (home, remote offices, field, etc.).

## Administrator Benefits

Cross-Platform Solutions also enable administrators to deliver higher productivity to their organization, from raw submission speed improvements (up to 100X) using Nitro High Throughput, to more efficient system utilization and user productivity. They spend less time solving user issues as users are better able to help themselves with easy-to-use system feedback provided via Viewpoint, along with best practices application templates, script wizards and other important time saving capabilities.

## Summary

Adaptive Computing enables organizations to unify the HPC user, admin and manager experience across multi-scheduler environments on a per service basis with their Cross-Platform Solutions. This unified ease-of-use experience drives higher visibility and productivity and helps an organization accelerate the results that give them a competitive advantage.

## Cross-Platform Solutions Compatibility

	Moab	Torque	Slurm	PBS Pro	SGE/UGE	LSF
Nitro High Throughput	✓	✓	✓	✓	✓	✓
Viewpoint Portal	✓	✓	✓	✓	✓	✓
Remote Visualization	✓	✓	✓	✓	✓	✓
Reporting & Analytics	✓	✓	✓	✓	✓	✓
Accounting	✓	✓	✓	✓	✓	✓

## Cross-Platform Solutions

- **Viewpoint Job Submission Portal** - Easy-to-use job submission and management portal that includes best-practices application templates, script wizard, workload management, job details, integrated file management, and other ease-of-use capabilities.
- **Remote Visualization** - 2D/3D visualization solution which allows users to remotely view and interact with applications or entire desktops on a cluster via a common browser, saving money on expensive licenses or GPU's.
- **Reporting and Analytics** - Big data processing solution that correlates resource and workload information into customizable reports and dashboards.
- **Accounting Manager** - Generalized accounting solution which provides resource usage tracking, charging and enforcement for Moab Cloud and TORQUE, or tracking and charging for other resource managers / schedulers with simple script changes.
- **Nitro (High Throughput)** - High throughput job launcher able to launch single node jobs up to 100X faster than a traditional scheduler.

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or visit our web site today.

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