

UNIVA

## HOW ONE COMPANY LEVERAGED UNIVA GRID ENGINE TO IMPROVE SCALABILITY

### CUSTOMER'S GOAL

The customer was dealing with scalability and performance issues in several production clusters. The team knew the situation would only get worse as they refreshed servers with high core counts. They sought better and quicker results in mission critical systems such as computational reservoir simulation, prediction of reservoir quality or the modeling of gas recovery processes through increased utilization within the HPC environment.

### THE SOLUTION

The current open source job scheduler was showing signs of stress and lacked the robust feature set required to ensure improved results within their HPC environment. After a competitive bake-off the customer selected Univa® Grid Engine™ based on features and cost-benefit analysis. Univa Grid Engine enabled the team to meet their scalability objectives and contain their costs



### IMPLEMENTATION HIGHLIGHTS

Univa Grid Engine was deployed as part of the transition from Torque and Maui. In addition, the customer integrated previously disparate clusters broadening compute availability. Specific features were added to ensure that systems such as filers would be put under balanced load.

### BENEFITS

The switch to Univa Grid Engine significantly reduced the downtime and improved the performance of mission critical applications.

#### WHAT THE CUSTOMER GAINED

- **Ability to consolidate multiple clusters into a single workload environment**
- **Significant improvement in utilization and throughput**
- **Predictable performance while scaling the cluster**

Univa Corporation provides the evolution of Grid Engine, the most widely deployed and distributed resource management software platform used by enterprises and research organizations across the globe.