



ALLIANCE BRIEF

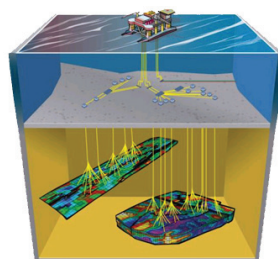
Landmark and QLogic

High Performance Computing

Overview

Oil and gas, mining, and other geoscience companies are faced with the challenge of identifying the best repositories of natural resources and extracting the most from these. Decisions about where to perform extraction, and for how long, are extremely important and can make the difference in optimizing costs and earnings or foregoing millions of additional revenue dollars. By analyzing greater amounts of data more quickly, geoscience companies can more accurately identify target sites for improved efficiency and reduced time to extraction.

QLogic's products help geoscience companies improve upstream exploration by accelerating applications in reservoir modeling, seismic processing, horizontal drilling, refinery modeling, and chemical/physical research.



Landmark

Solution Highlights

Expand Scope of Research and Analysis Increased detail in reservoir analysis produces more accurate findings that ultimately result in highly precise targeting, modeling, and extraction.

Speed Time to Extraction QLogic solutions allow geoscience companies to significantly reduce analysis and the time it takes to run modeling and processing applications—reducing the timeline for successful extraction and delivery to market.

Reduce or Eliminate Costs By better leveraging cluster compute and storage resources, geoscience companies utilizing QLogic high performance computing solutions can significantly reduce the costs and complexities associated with deploying and operating high performance computing exploration data centers.

More Efficient Operations QLogic solutions also enable the deployment of grid computing architectures which allows for the pooling of compute and storage resources across multiple research teams resulting in better overall IT infrastructure utilization and lower overall cost of product design.

Landmark

Landmark is a brand of Halliburton. Since 1919, Halliburton has continued to earn the trust of our customers around the world by leading the well-site services industry through the delivery of innovative technology, reservoir-specific expertise and outstanding service quality. No matter how challenging their technology or service issues may be, Landmark customers know that we will find a way to fulfill on Landmark's promise: The Reservoir—Delivered.

Landmark Nexus

A major advance in reservoir simulation, Landmark's Nexus software enables fully implicit, fully coupled surface-to-subsurface simulation for a comprehensive look at your asset. With Nexus technology, simulate everything from small fields to complex assets with multiple reservoirs and varying fluids at unprecedented speed.

Rapid Reservoir Simulation

Nexus Reservoir Simulation software provides solutions five times faster on average than other leading reservoir simulators.

More accurate, more robust, faster solutions

The Nexus package is optimized for the DecisionSpace environment to provide integrated reservoir and facility modeling - giving users one seamless solution.

Increased Accuracy in Production Forecasts

Nexus software solves both surface and subsurface equations together in a tightly coupled network model yielding more accurate results.

Multi Reservoir Models

Nexus software allows users to utilize several reservoirs from different earth model data sources into the model and to combine the reservoirs at one common surface network.

QLogic - High Performance Cluster Technology

QLogic is a leading supplier of high performance clustering and storage networking solutions, which include host adapters and InfiniBand switches that are used by major corporations and government facilities. QLogic offers a comprehensive end-to-end product portfolio that includes Multi-Protocol Fabric Directors, Edge Fabric Switches, InfiniBand Adapters, and a complete software suite to install, operate, and maintain your high performance interconnect fabric. QLogic offers the most comprehensive and flexible interconnect fabric solutions on the market. Application requirements from 12 to 864 InfiniBand ports can be supported in a single chassis. Multi-chassis fabrics that support thousands of host nodes can be constructed to meet the most demanding compute cluster requirements. This offering, combined with the industry's only Fabric Management tools that enable an administrator to install and boot a fabric in minutes, helps to satisfy the growing demand for high-performance computational clusters and grids.

High Capacity Multi-Protocol Directors

- 51.8Tb/s throughput in a single chassis
- InfiniBand DDR supported across full switching portfolio
- Support for 20-to-40Gb/s node-to-node
- Up to 60Gb/s switch-to-switch bandpass

Comprehensive Fabric Management

- Centralized configuration and fabric initialization
- Accelerated fabric deployment and verification
- Fabric health and performance monitoring
- Fabric-wide diagnostics and maintenance
- Centralized management of virtual fabric services

Compatible Plus Software Stacks

- OpenFabrics/OFED, Optional value-added capabilities, Accelerated standard MPI stacks

QLogic InfiniBand Benefits

1. Significantly improves application performance for faster time-to-solution
2. Provides fabric and application scaling to thousands of CPUs
3. Simplifies data center design and reduces operating costs

To Learn More

QLogic: www.qlogic.com

Landmark: www.halliburton.com



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