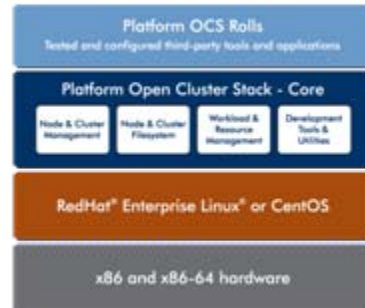


Platform Computing and QLogic High Performance Computing

Platform™

Overview

Platform Computing and QLogic have an alliance to bring you Platform OCS with QLogic InfiniBand support. Platform OCS simplifies the installation and management of High Performance Computing (HPC) clusters, which is especially important with InfiniBand's ability to support very large clusters. The combination of Platform OCS and QLogic InfiniBand make large scale cluster computing a reality.



Platform

Platform Computing is a pioneer and the global leader in High Performance Computing infrastructure 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 for workload, cluster, and grid management. 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.

Platform Open Cluster Stack (OCS)

Clusters, comprised of commodity server hardware and software, is disruptive technology gaining acceptance as the enterprise solution to an ever-increasing number of problems in the data center. Clusters are reshaping the HPC market driven primarily by price/performance and the rapid adoption of the Linux open source operating system.

However, the unsolved problem is lack of standardization. Readily available commodity components are decoupled and complex, making Linux clusters difficult to build and use.

To bring clusters to the mainstream and stimulate growth through the adoption of more applications for workgroups and departmental clusters, the process of building and managing Linux clusters needs to be simplified, minimizing the cost and time to get a cluster fully operational.

In order for this to happen there needs to be a comprehensive set of reference architectures, implementations, and technology standards that will enable interoperable components and a ubiquitous computing experience.

Solution Highlights

Provides Fabric and Application Scaling to 1000s of CPUs

QLogic high performance InfiniBand with its extremely low latency and substantial 20Gbit bandwidth offers support for very large clusters up to multi-thousands of nodes.

Reduce or Eliminate Costs

By better leveraging cluster compute and storage resources, customers utilizing QLogic's high performance switching and virtual cluster fabric solutions can reduce the costs and complexities of deploying and operating design and simulation 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 user groups. This results in better overall IT infrastructure utilization and lower overall cost of product deployment

QLogic Corporation

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. The company delivers a broad and diverse portfolio of products that includes InfiniBand switches and InfiniBand host channel adapters for the fast growing, high performance computing market. The company is also a leading supplier of Fibre Channel HBAs, blade server embedded Fibre Channel switches, Fibre Channel stackable switches, iSCSI HBAs, and iSCSI routers. QLogic products are delivered to small-to-medium businesses and large enterprises around the world via its channel partner community. QLogic products are also powering solutions from leading companies like Cisco, Dell, EMC, Hitachi Data Systems, HP, IBM, Network Appliance and Sun Microsystems. QLogic is a member of the S&P 500 Index.

QLogic – High Performance Cluster Technology

QLogic offers a comprehensive end-to-end product portfolio that includes Multi-Protocol Fabric Directors, Edge Fabric Switches, Host Channel Adapters (HCAs), 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 288 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

- 11.52Tb/s throughput in a single chassis
- InfiniBand DDR supported across full switching portfolio
- Support for 20Gb/s node-to-node
- Up to 60Gb/s switch-to-switch bandpass
- Single wire support for InfiniBand, Ethernet, and Fibre Channel

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

Multi-Protocol Gateways

- Virtual I/O Controller (VIC) functionality
- 10Gb Ethernet and 4Gb Fibre Channel
- Scale I/O and servers independently
- Pool and share I/O between servers

Widest Range of Host InfiniBand Adapters

- Widest choice of adapters
- SDR and DDR capable
- PCI-X and PCIe

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 1000s of CPUs
3. Simplifies data center design and reduce operating costs
4. Eliminates the need for separate physical server connections to storage and network resources
5. Scale servers and I/O independently pool and share I/O between servers

To Learn More:

QLogic: www.qlogic.com
Platform: www.platform.com