



## Overview

Get more from your high-performance computing (HPC) environment with HP and QLogic. QLogic and HP have partnered to establish a joint testing, certification, and performance optimization environment at the QLogic NETrack Developer Center (NDC). The NDC is designed to provide partners and customers with an HPC infrastructure consisting of high core count clusters that utilize the industry's latest in server and processor technologies. This HPC infrastructure provides customers and partners with a rich environment for testing their applications' scaling and performance capabilities without having to make significant investments in their own computing and testing resources. See for yourself what a difference HP BladeSystem c-Class servers and the industry's highest performing quad data rate (40 Gbps) InfiniBand (IB) network can make.

## NDC program

NDC is located at the QLogic facility in Minnesota, and provides for either onsite or remote access to the center's resources. The NDC can be used for:

- Applications testing and certifications
- Performance testing and optimization
- Proof-of-concept program using customer models and simulations

The NDC contains an extensive array of HPC clusters, storage and networking resources, and infrastructure, featuring the following:

- HP Cluster Platform with HP BladeSystem c-Class
  - 16 HP ProLiant BL280c blades/128 cores of Intel® Xeon® 5570 Processors
  - 384 GB of memory
- QLogic TrueScale™ QDR InfiniBand—40 Gbps
- Storage—InfiniBand, SAN, and NAS storage
- Multiple OS support—Linux and Windows®

For more information on the NDC, please visit:

[www.qlogic.com/go/hp](http://www.qlogic.com/go/hp)

## Technology highlights

### HP Cluster Platforms—high-performance cluster technology

HP is the market leader in high performance computing, offering the broadest spectrum of high performance computing solutions, from workgroup and departmental servers to systems designed for the engineering enterprise and supercomputing centers. HP delivers innovative, industry-standard servers that are optimized for scalability, price/performance, and performance/watt to reduce your capital and operating expenses.

Clustering is simple and fast with HP Cluster Platforms, the foundation of the **Unified Cluster Portfolio**.

These systems combine the flexibility of a custom solution with the simplicity, reliability, and value of a preconfigured, factory-built product. Get started with **HP Cluster Platforms**.

- Broad choice of servers, cluster interconnects, and middleware
- Factory integrated and tested, with final onsite installation
- Choice of packaging styles—dense or expandable modular design up to 1024 nodes
- Backed by HP warranty and support, and built to uniform, worldwide specifications
- Comprehensive software selection, tested and verified by HP and/or its partners
- Rapid deployment services, including optional software installation, onsite training, and implementation support

## QLogic TrueScale InfiniBand

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 one of 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. The TrueScale offering, combined with comprehensive Fabric Management tools—enabling an administrator to install and boot a fabric in minutes, helps to satisfy the growing demand for high-performance computational clusters and grids.

QLogic high-performance InfiniBand delivers extremely low latency and substantial 40 Gbit bandwidth, which translates into support for very large clusters of up to thousands of nodes.

- Significantly improves application performance for faster time-to-solution
- Provides fabric and application scaling to 1000s of CPUs/cores
- Simplifies data center design and reduces operating costs
- Eliminates the need for separate physical server connections to storage and network resources
- Scale servers and I/O independently with shared I/O between servers

## Scheduling time at the NDC

1. Contact one of the following to discuss the use of the NDC.

**Americas sales:** Gary Benton  
813-240-5582  
gary.benton@qlogic.com

**EMEA sales:** George Biry  
+44 1276 804 796  
george.biry@qlogic.com

**APJ sales:** Mark Nickerson  
+65 6402 0227  
mark.nickerson@qlogic.com

2. Retrieve the NDC Registration Form from [www.qlogic.com/go/hp](http://www.qlogic.com/go/hp)
3. Accept the Terms and Conditions for use of the NDC
4. Complete the remainder of the NDC Request Form
5. Send your request to
  - Joe Yaworski (Joseph.Yaworski@QLogic.com)
  - John Melon (John.Melon@QLogic.com)
6. QLogic will then acknowledge receipt of the request, and after review and acceptance will provide the following:
  - Scheduled start and end dates
  - Usercode and password for accessing the assigned resources
  - Designated NDC Support Liaison person
  - Assistance in setting up and configuring the testing environment

To learn more, visit [www.hp.com/hpc](http://www.hp.com/hpc)  
[www.qlogic.com/go/hp](http://www.qlogic.com/go/hp)

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