QxSmart HPC/DL Solution



An Optimized and Scalable High Performance Computing / Deep Learning Solution

Quanta Cloud Technology (QCT) offers cutting-edge High Performance Computing (HPC) / Deep Learning (DL) solution that integrates adaptive hardware with software stacks and vertical applications. This unique solution combines QCT's best-in-class infrastructure with high-bandwidth and low-latency interconnect. Furthermore, QCT's solution offers seamless connectivity with leading parallel file systems, to provide a scalable cluster architecture for supercomputing users. QCT delivers its starter kit with comprehensive software tools, which comply with OpenHPC conventions, to simplify deployment processes and to speed time-to-market. The QCT QxSmart HPC/DL solution is a fast and reliable way to build a HPC or deep learning environment across many industries, while reducing the time and effort to implement projects.

What QCT HPC/DL Solution Can Offer

The QxSmart HPC/DL Solution is composed of validated software tools and industrial applications powered by QCT's infrastructure platform. This architecture simplifies the deployment process and minimizes time-to-value, which brings huge benefits to end users, administrators, and developers.

End Users:

- √ Accelerate time-to-value through the QCT Starter Kit
- √ Speed up productivity with intelligent workload management

Administrators:

- √ Simplify complex IT environments
- √ Streamline cluster deployment, monitoring, and management

Developers:

- √ Compile on de facto standard application frameworks
- √ Maximize ROI on comprehensive software tools

HPC/DL Software Stack

HPC/DL Applications												
NIS	VIS Torque / SLURM / Moab / PBS Pro				Firewall Intel/GNU/PC Compilers & Libr				MPICH/MVAPICH2 OpenMPI / Intel MPI			e2 / TensorFlow eras / CUDA
User Authentication	Resource Management	Job Scheduling	Network Security	Compilers & Math Libraries			Application Frameworks					
DHCP/PXE	Cobbler / Ansible / Warewulf	Pacemakei Corosync	Gangl	ia Nagi	os	Collectl	QSM	ł	PDSH		Docke	r Singularity
System Deployment			Sy	System Monitoring S					ystem Operation		System Environment	
Network File System				Lustre File System					BeeGFS File System			
Network and Parallel Distributed File System												
Red Hat Enterprise Linux				CentOS Linux					Scientific Linux			
Operating System												
Server				Networking					Storage			
Adaptive Platform												

Solution Highlights



Starter kit and integrated system to speed time-to-market



Software installation, system and rack assembly to simplify deployment processes

Benefits



Power HPC systems with the latest technology



Reduce effort spent on system integration



Scale out on-demand with modularized architecture designs



Intel® Xeon® Scalable Processor
Intel Inside®. New Possibilities Outside.

Specifications



Found at: www.QCT.io/wheretobuy

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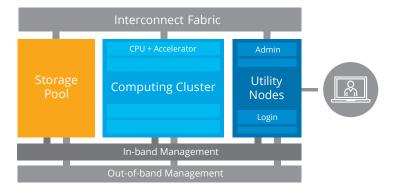
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OCT authorized partner

QxSmart HPC/DL System Architecture



QxSmart HPC/DL System Component



About Quanta Cloud Technology (QCT)

Quanta Cloud Technology (QCT) is a global data center solution provider. We combine the efficiency of hyperscale hardware with infrastructure software from a diversity of industry leaders to solve next-generation data center design and operation challenges. QCT serves cloud service providers, telecoms and enterprises running public, hybrid and private clouds.

Product lines include hyper-converged and software-defined data center solutions as well as servers, storage, switches, integrated racks with a diverse ecosystem of hardware component and software partners. QCT designs, manufactures, integrates and services cutting edge offerings via its own global network. The parent of QCT is Quanta Computer, Inc., a Fortune Global 500 corporation.

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