



Prepared for:

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Account rep:

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Quote Date	Valid Until	Shipping	Terms
03/19/2008	04/21/2008	Truck	Net 30

Qty	Part #	Name	Unit Price	Amount
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24 Compute Node - Pinnacle 1X5002H

00-01-15307	1 x	1U Rackmount Chassis - 1x 5.25", 2x hotswap, 500W power supply with full fan bus and rails
00-60-13636	1 x	1U PCIe 8x riser card
05-56-14812	8 x	2GB 667MHz DDR2 FB-DIMM
30-16-13551	1 x	80GB SATA II Hard Drive 7200RPM w/ 8MB Cache
55-77-16130	2 x	Intel Xeon Quad Core 5410 2.33GHz 1333 FSB w/ 12MB Cache
60-63-16299	1 x	Dual Xeon 5000P LGA771 E-ATX w/ 8x FBDIMMS, 3x PCI-E x8, 1x PCI-E x4, 2x PCI-X, 6x SATAII, dual Gbe,
70-05-16119	1 x	Silver advance replacement warranty (24x7 coverage, 3 year)

1 Head Node - Pinnacle 2X5001H8

00-02-15305	1 x	2U rackmount chassis - 8x hotswap bays, 1x 3.5" bay, 1x slim floppy, 1x slim CD
00-11-13732	2 x	40 x 28mm Case Fan
00-51-15602	1 x	2U/3U 700W EPS Slim Power Supply
00-55-15899	1 x	SATA2/SAS Backplane with Mounting Bracket
00-70-14145	1 x	2U/4U Slide Rail
05-56-14812	8 x	2GB 667MHz DDR2 FB-DIMM
05-98-16373	2 x	Memory active cooling Module
25-03-15613	1 x	RAID Controller Battery Back-Up Module
25-03-15475	1 x	8-port Multi-Lane SATAII PCI-E RAID Controller
30-16-15925	2 x	250GB SATA II Hard Drive 7200RPM w/ 16MB Cache
30-17-15772	6 x	1TB SATAII Hard Drive 7200 RPM w/ 32MB Cache
30-40-15352	1 x	Slim Line DVD+/- RW Black



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55-77-16130	2 x	Intel Xeon Quad Core 5410 2.33GHz 1333 FSB w/ 12MB Cache		
56-11-15413	2 x	2U Active Cooler w/ PWM fan for Intel Xeon socket 771		
60-63-15841	1 x	Dual Xeon 5000P w/ 12x FB-DIMM, 2x PCI-X and 3x PCIe x8, dual Gbe, video		
70-05-16119	1 x	Silver advance replacement warranty (24x7 coverage, 3 year)		

1 Management system

10-00-15792	24 x	Red CAT6 500MHz UTP - 10 FT		
35-10-14701	1 x	2U LCD sliding rackmount stand - supports 15"-19" LCD monitors & standard keyboard		
35-20-15528	1 x	17" LCD monitor 1280x1024 w/ VGA		
50-00-16319	1 x	16" Keyboard with 104 Keys and Touchpad for 2U RM system		
50-30-16338	1 x	6FT USB 2.0 A to A Male/Female Extension Cable (Black)		
50-30-16360	1 x	6FT Super VGA M/F Monitor Cable		
50-40-16315	24 x	RJ45 To DB9 Serial Adapter		
50-40-14872	1 x	1U 48-Port Console Server, 10/100Base-T Ethernet port, w/ Single Power Supply		

1 Network System - Gigabit

10-00-15791	25 x	Black CAT6 500MHz UTP - 10 FT		
10-00-15795	1 x	Purple CAT6 500 MHz UTP - 10 FT		
10-03-14508	1 x	Netgear GSM7248NA - 48 port L2 gigabit managed switch		

1 Rack and Power Distribution

10-00-15790	4 x	Yellow CAT6 500MHz UTP - 7 FT		
15-13-15684	1 x	3U 3000VA Rackmount UPS w/ 120V Output (NEMA 5-15R and NEMA 5-20R) and 120V Input (NEMA L5-30P) Power back-up for head node and switch.		



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Qty	Part #	Name	Unit Price	Amount
	15-31-13405	1 x 0U 20A/120V Vertical Mount Masterswitch - 24 Receptacles		
	15-33-13296	2 x 0U 20A/208V 3phase Input Network Controlled Rackmount PDU - 24 120V Receptacles		
	20-10-15574	1 x 42U 600mm x 1070mm Enclosure with sides - Black		
	20-20-14086	2 x 4U Black Blanking Panels		

1 Software



45-00-16005	25 x	Red Hat Enterprise Linux for HPC Compute Nodes, Basic (Up to 2 Sockets) 1 years Basic support Web
45-05-15098	1 x	LAPACK Linear Algebra PACKage
45-05-15921	1 x	Intel Math Kernel Library 9.1 Cluster Edition - EDU
45-05-12847	1 x	Intel Fortran Compiler 9.1 for Linux - Educational Pricing
45-05-12846	1 x	Intel C++ Compiler - Educational Pricing
45-06-15991	1 x	MPICH - latest version, compiled with all available compilers
45-20-14132	1 x	Ganglia - Cluster Monitoring Software
45-20-13184	1 x	ACT Cloner - Replication Software
45-20-13974	1 x	ACT Beo Utils - Cluster Management Software
45-30-13754	1 x	TORQUE Resource Manager

1 System Setup



45-99-16007	1 x	Technical Contact
45-99-16009	1 x	Default Head Node Disk Partitioning - OS Defaults, RAID1,5,6 if Possible
45-99-16013	1 x	Default Node Disk Partitioning - OS Defaults
45-99-16020	1 x	Default Host Names - head. node0x
45-99-16011	1 x	External Network Settings



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Quote
#1923568.2

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	45-99-16012	1 x Internal Network Settings - IP range, Netmask. Default is 192.168.1.0/24		
	45-99-16018	1 x Default NFS Mounts - /export, /act, and /home		
	45-99-16022	1 x Node Communication - RSH		
	45-99-16024	1 x Default Software Location - /act		
	45-99-16026	1 x Head Node Desktop - No X On Boot		
	45-99-16033	1 x Compute Node Desktop - No X On Boot		
	45-99-16029	1 x Setup Notes End User Software: • PETSc (ANL) • PWSCf Package • NEMO 3-D (in house)		

