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Quote #: 76012-3
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ETA :
Terms : Net 30
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QUOTE

Billing Information		Shipping Information	
Company:	Florida State University -- Department of Physics and Institute of Molecular Biophysics	Company:	Florida State University -- Department of Physics and Institute of Molecular Biophysics
Attention:		Attention:	
Street Address:		Street Address:	
City, State, Zip:		City, State, Zip:	
Contact:		Contact:	
Phone Number:		Phone Number:	
Email:		Email:	

Description	Quantity	Unit Price	Extended Amount
Quantum-07192017-02-EDU - 8x 42U Racks w/ GBE Cabling, Rackmounting - 2U 12x 3.5" Bay Storage Headnode w/ 12x 8TB HDD (RAID5) 159 Nodes Total: - 139x Quantum TXR231-1000R 2U E5-2620 v4 Based Quad GTX 1080 Ti GPU Nodes (636 GPUs Total) - 20x Quantum TXR231-1000R 2U E5-2650 v4 Based Quad GTX 1080 Ti GPU Nodes (636 GPUs Total) - Bright Cluster Manager w/ AMBER MD Installation, Validation and Clustering (SLURM Workload Scheduler) w/ GPU Validation/Test/Burn-In	1	\$1,437,258.82	\$1,437,258.82
----- Racks, Crating, Power Distribution, Power Cabling -----			
AFC Netshelter SX 42U 600MMx 1070MM Cabinet	8		
Zero U Vertical PDU, 12.5Kw, 3PH, CS8365, 30x C13, 6x C19 Outlets	32		
Reusable Heavy-Duty Wooden Crating with Roll-In and Roll-Out Ramp	8		
Full Turn-Key Cluster Power Cabling	8		
----- Networking, Network Cabling -----			
1U 24 Port 10/100/1000 Rackmount Switch (Unmanaged)	6		
Full Turn-Key Cluster Ethernet Cabling	8		
----- Cluster Software / Applications -----			
Bright Cluster Manager -- Advanced Edition, 1 Year Subscription License with 1 Year Standard Maintenance and Support (Educational Customers)	480		
- Intel Parallel Studio XE Licenses Available By Request			
AMBER 14/16 Cluster Installation and Validation (Does not include AMBER license) -- Special Burn-in and Validation Testing for Geforce Class GPUs to Ensure Correct, Reproducible Numerical Results			
Exact AMBER Certified AMBER MD Workstations and Clusters, in addition to being numerically validated using custom GPU validation suites, also come with an optimized version of AMBER 14/16 that has been developed in a collaboration between lead AMBER developer Ross Walker, NVIDIA and Exxact. The combination of these optimizations and Exxact hardware with NVIDIA Maxwell/Pascal (GTX-980, GTX980Ti, Titan-X, GTX 1080, GTX 1070, M40 and M60) provides performance for all AMBER FIVE/D GPU simulations, explicit solvent and implicit solvent, that is between 15 and 25% faster than achievable on systems from other vendors while providing bitwise identical results.	1		
----- Storage Headnode -----			
2U Headnode Base Building Block - 12x 3.5" HDD Bays, SATA/SAS3 HW RAID, Redundant Power, Rail Set Included	1		
Add Drives, CPUs (2), Memory			
Intel® Xeon® processor E5-2620 v4, 8C, 2.1 GHz 20M, 85W	2		
16GB DDR4 2400MHz ECC Registered 1.2V Memory Module	8		
8TB SATA 6Gb/s 7.2K RPM 256M	12		
----- Compute Nodes -----			
Quantum TXR231-1000R - 2U Rackmount System, Supports 2x E5-2600 v3/v4 (Haswell/Broadwell) Series Processors, 4x PCIe 3.0 x16 Slots, 1TB DDR4 ECC/REG Memory Modules, 2000w Redundant Power Supplies (145W CPU Maximum)	159		
Intel® Xeon® processor E5-2620 v4, 8C, 2.1 GHz 20M, 85W 139 Nodes with this processor	278		
Intel® Xeon® processor E5-2650 v4, 12C, 2.2 GHz 30M, 105W 20 Nodes with this processor	40		
16GB DDR4 2400MHz ECC Registered 1.2V Memory Module	1272		
512GB 2.5 SATA III Internal Solid State Drive (SSD)	159		
2.5" to 3.5" SATA 6Gb SSD Hard Drive Converter / Adapter / Bracket	159		
NVIDIA GeForce GTX 1080 Ti, Pascal, 11GB GDDR5X	636		
Special Burn-in and Validation Testing for Geforce Class GPUs to Ensure Correct, Reproducible Numerical Results			

Configuration Notes:

Notes/Comments/Special Instructions:	Subtotal: \$ 1,437,258.82 Tax: \$ 0.00 Shipping: \$ TBD Total: \$ 1,437,258.82
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 	Terms and Conditions: All purchases of Exxact Corporation products are subject to the following Terms and Conditions of Sale. (A) Please allow two weeks from receipt of purchase order before shipment. (B) Shipping may not be included on the Quote but will be included on the invoice if applicable. (C) Applicable sales tax (tax rate based on ship-to location) will be charged on shipments in California if Exxact Corporation does not receive a Tax Exemption Certificate prior to shipment of the order. (D) Warranty, Terms of Payment and quote Expiration Date that appear in the quote. (E) Unless otherwise specifically noted, assembled computer systems are covered under the 3-Year Exxact Standard System Warranty, available here
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