HPC PRICING GUIDE

AMD
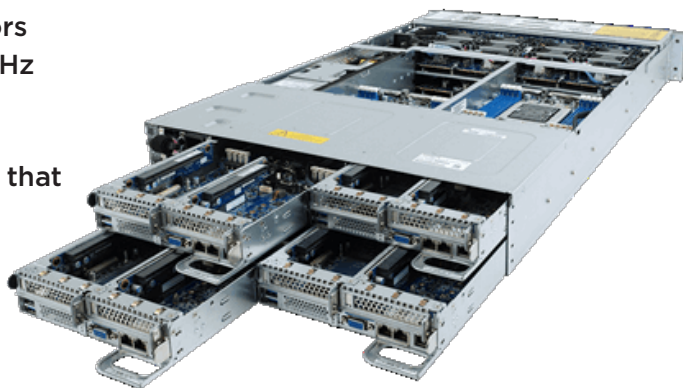
Finding Value and Optimal Performance in Any Budget

$150,000 CLUSTER

The following solution features the 7452 AMD EPYC processor with 512 total cores and 4Gb of memory per core. Visit our site at http://bit.ly/clprocessors to see all processor choices. For questions about this system, contact:
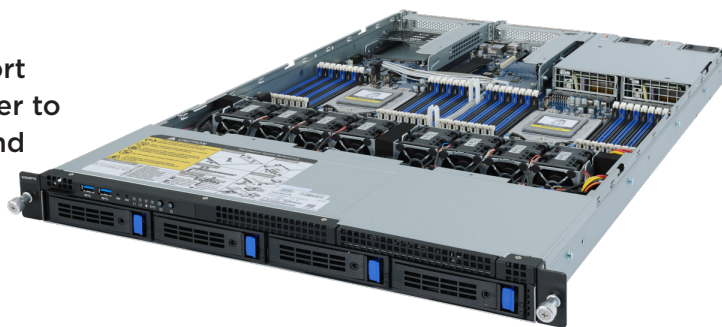Email: sales@advancedclustering.com | Phone: (913) 643-0300

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
ACTBLADE E230 COMPUTE NODES	8	$37,500.00	$75,100.00

- 2x AMD EPYC 7452 (32-core, 2.35 GHz) processors
- Registered ECC DDR4 memory 256GB of 3200MHz
- 240GB SSD
- HDR-100 InfiniBand
- These nodes are housed in our ACTblade chassis that supports 4x compute nodes in 2U of space and includes redundant power
- 3 year warranty with lifetime technical support

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
ACTSERV E1210 LOGIN NODE	1	$10,600.00	$10,600.00

- 2x AMD EPYC 7452 (32-core, 2.35 GHz) processors
- Registered ECC DDR4 memory 256GB of 3200MHz
- 2x 240GB mirrored OS SSDs
- HDR-100 InfiniBand
- 1U chassis with redundant power
- 3 year warranty with lifetime technical support
- Login nodes are for users to SSH to the cluster to submit jobs, copy files to/from the cluster, and to compile code they want to run

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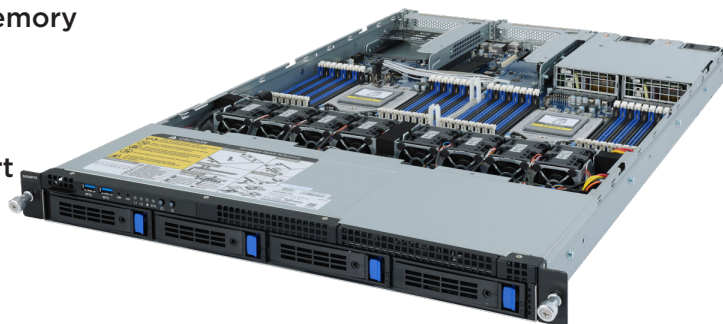| NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
ACTSERV E1210 - ZFS STORAGE CONTROLLER	1	**$11,100.00**	**$11,100.00**

- 2x AMD EPYC 7452 (32-core, 2.35GHz) processors
- 256GB of 3200MHz Registered ECC DDR4 memory
- 2x 240GB mirrored OS SSDs
- HDR-100 InfiniBand
- 1U chassis with redundant power
- 3 year warranty with lifetime technical support

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
ACTSTOR 4060J - STORAGE TARGET	1	**$24,300.00**	**$24,300.00**

- 384TB usable storage
- 4U chassis with redundant power
- HDR-100 InfiniBand
- 1x 8TB onsite cold spare drive
- 3 year warranty with lifetime technical support

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NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
NETWORK SYSTEM	1	$1,700.00	$1,700.00

Node communication is provided through an Ethernet network. This switch gives you the ability to:
- Manage file system traffic, cluster utility communication, system admin & maintenance
- Remotely monitor temperatures, voltages, fans, and power supplies
- Allow for remote power cycling of each node
- Uplink via 10Gb ports

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
HDR INFINIBAND NETWORKING	1	$17,600.00	$17,600.00

- 100Gb HDR-100 nodes
- 40 port HDR IB switch; supports 40x 200Gb IB ports, 80x 100Gb ports or a combination of the two speeds.
- 3 year warranty

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Please confirm this type of power is available in your data center. Advanced Clustering Technologies can provide alternative PDUs as needed.

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NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
SOFTWARE	1	$0.00	$0.00

ClusterVisor is Advanced Clustering's HPC cluster management solution.
ClustorVisor includes the ability to:
- Manage your cluster from a simple web interface (GUI) or from the command line
- Control server processes on every node
- Customize multiple dashboards
- Manage users and groups
- Create rack diagrams
- Configurenodes, SLURM, time servers, etc.
- Sensors track such things as CP, memory, Infiniband and GPU's

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
RACK AND POWER INFRASTRUCTURE	1	$4,500.00	$4,500.00

POWER AND COOLING (ESTIMATED DATA)
Weight: 911.25 lbs.
Rack space used: 13U
Power: 8.3 kW
BTU: 28,825.77 BTU/hr.
HVAC needed: 2.40 tons

CIRCUITS NEEDED:
Qty 1 - IEC 309 60A 3P+PE
308V ePH at 60 Amps

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AMD

$250,000 CLUSTER

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Email: sales@advancedclustering.com | Phone: (913) 643-0300

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
ACTBLADE E230 COMPUTE NODES	16	$37,500.00	$150,200.00

- 2x AMD EPYC 7452 (32-core, 2.35 GHz) processors
- Registered ECC DDR4 memory 256GB of 3200MHz
- 240GB SSD
- HDR-100 InfiniBand
- These nodes are housed in our ACTblade chassis that supports 4x compute nodes in 2U of space and includes redundant power
- 3 year warranty with lifetime technical support

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
ACTSERV E1210 LOGIN NODE	1	$10,600.00	$10,600.00

- 2x AMD EPYC 7452 (32-core, 2.35 GHz) processors
- Registered ECC DDR4 memory 256GB of 3200MHz
- 2x 240GB mirrored OS SSDs
- HDR-100 InfiniBand
- 1U chassis with redundant power
- 3 year warranty with lifetime technical support
- Login nodes are for users to SSH to the cluster to submit jobs, copy files to/from the cluster, and to compile code they want to run

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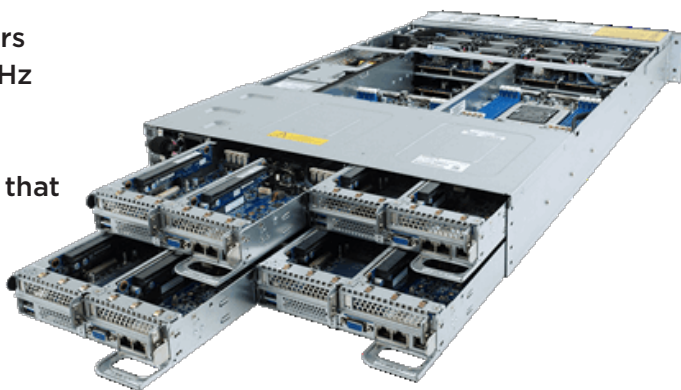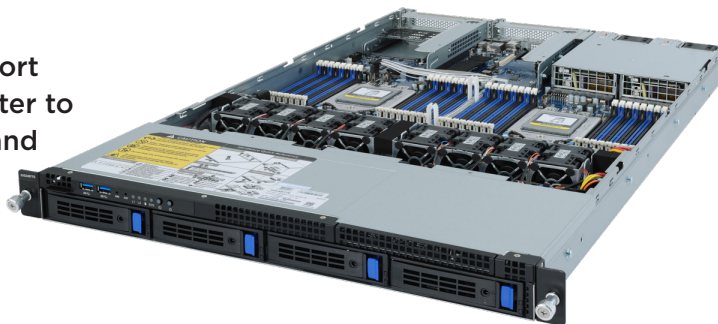**Finding Value and Optimal Performance in Any Budget**

$250,000 CLUSTER

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
BEEGFS PARALLEL FILE SYSTEM HDD STORAGE BLOCK	1	$40,600.00	$40,600.00

Storage target: Storage target as configured below
- Enclosure: 4U, 60 drive JBOD with redundant SAS expanders and power supplies
- Storage space: 480TB usable - 6GB/s (60x 10TB)
- Onsite cold spare(s): 10TB Drive w/ Carrier
- Warranty: 3 year standard warranty

Storage server: Storage server as configured below
- Base system: 2U Dual socket Xeon storage controller
- Metadata option: Shared meta data with storage server
- Metadata size: Support a total filesystem less than 640TB
- Networking: 2x RJ45 10Gb ethernet ports, 2x 10Gb SFP+ ethernet ports
- Fabric: Single port HDR-100 InfiniBand (100Gb/s)
- Warranty: 3 year standard warranty
- BeeGFS support: 3 year BeeGFS support contract

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
NETWORK SYSTEM	1	$1,750.00	$1,750.00

- Manage file system traffic, cluster utility communication, system admin & maintenance
- Uplink via 10Gb ports
- Remotely monitor temperatures, voltages, fans, and power supplies
- Allow for remote power cycling of each node

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$250,000 CLUSTER

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
HDR INFINIBAND NETWORKING	1	$17,600.00	$17,600.00

- 100Gb HDR-100 nodes
- 40 port HDR IB switch; supports 40x 200Gb IB ports, 80x 100Gb ports or a combination of the two speeds.
- 3 year warranty

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
SOFTWARE	1	$0.00	$0.00

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$150,000 CLUSTER

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
RACK AND POWER INFRASTRUCTURE	1	$4,500.00	$4,500.00

POWER AND COOLING (ESTIMATED DATA)

Weight: 1,223.25 lbs.
Rack space used: 18U
Power: 12.4 kW
BTU: 42,474.34 BTU/hr.
HVAC needed: 3.54 tons

CIRCUITS NEEDED:

Qty 1 - IEC 309 60A 3P+PE
208V 3PH at 60 Amps

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$500,000 CLUSTER

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Email: sales@advancedclustering.com | Phone: (913) 643-0300

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
ACTBLADE E230 COMPUTE NODES	44	$37,500.00	$413,200.00

- 2x AMD EPYC 7452 (32-core, 2.35 GHz) processors
- Registered ECC DDR4 memory 256GB of 3200MHz
- 240GB SSD
- HDR-100 InfiniBand
- These nodes are housed in our ACTblade chassis that supports 4x compute nodes in 2U of space and includes redundant power
- 3 year warranty with lifetime technical support
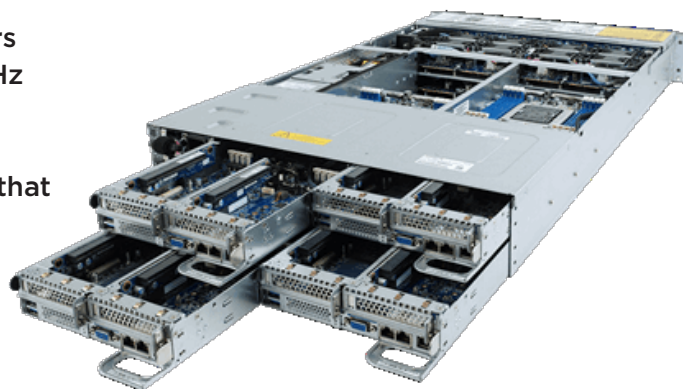
NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
ACTSERV E1210 LOGIN NODE	1	$11,100.00	$11,100.00

- 2x AMD EPYC 7452 (32-core, 2.35 GHz) processors
- Registered ECC DDR4 memory 256GB of 3200MHz
- 2x 240GB mirrored OS SSDs
- HDR-100 InfiniBand
- 1U chassis with redundant power
- 3 year warranty with lifetime technical support
- Login nodes are for users to SSH to the cluster to submit jobs, copy files to/from the cluster, and to compile code they want to run

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$500,000 CLUSTER

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
BEEGFS PARALLEL FILE SYSTEM HDD STORAGE BLOCK	1	$56,000.00	$56,000.00

Storage target: Storage target as configured below
- Enclosure: 4U, 60 drive JBOD with redundant SAS expanders and power supplies
- Storage space: 480TB usable - 6GB/s (60x 10TB)
- Onsite cold spare(s): 10TB Drive w/ Carrier
- Warranty: 3 year standard warranty

Storage server: Storage server as configured below
- Base system: 2U Dual socket Xeon storage controller
- Metadata option: Shared meta data with storage server
- Metadata size: Support a total filesystem less than 640TB
- Networking: 2x RJ45 10Gb ethernet ports, 2x 10Gb SFP+ ethernet ports
- Fabric: Single port HDR-100 InfiniBand (100Gb/s)
- Warranty: 3 year standard warranty
- BeeGFS support: 3 year BeeGFS support contract

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$500,000 CLUSTER

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
NETWORK SYSTEM	1	$1,750.00	$1,750.00

- Manage file system traffic, cluster utility communication, system admin & maintenance
- Uplink via 10Gb ports
- Remotely monitor temperatures, voltages, fans, and power supplies
- Allow for remote power cycling of each node

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
HDR INFINIBAND NETWORKING	1	$22,700.00	$22,700.00

- 100Gb HDR-100 nodes
- 40 port HDR IB switch; supports 40x 200Gb IB ports, 80x 100Gb ports or a combination of the two speeds.
- 3 year warranty

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
SOFTWARE	1	$0.00	$0.00

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$500,000 CLUSTER

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
RACK AND POWER INFRASTRUCTURE	1	$6,000.00	$6,000.00

POWER AND COOLING (ESTIMATED DATA)

Weight: 1,980.15 lbs.
Rack space used: 32U
Power: 27.8 kW
BTU: 95,021.32 BTU/hr.
HVAC needed: 7.29 tons

CIRCUITS NEEDED:

Qty 1 - IEC 309 60A 3P+PE
208V 3PH at 60 Amps

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Finding Value and Optimal Performance in Any Budget

$150,000 CLUSTER

The following solutions feature the 6230 Intel Xeon Scalable processor but there are many more options available.

For questions about this system, contact:
sales@advancedclustering.com | Phone: (913) 643-0300

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
ACTBLADE X210 COMPUTE NODES	14	$7,800.00	$109,200.00

- 2x Xeon 6230 (20-core, 2.1GHz) processors
- 96GB of 2933MHz Registered ECC DDR4 memory
- 240GB SSD
- 100Gb Omni-Path interconnect
- These nodes are housed in our ACTblade chassis that supports 4x compute nodes in 2U of space and includes redundant power
- 3 year warranty with lifetime technical support

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
ACTSERV X1210 LOGIN NODE	1	$9,650.00	$9,650.00

- 2x Xeon 6230 (20-core, 2.1GHz) processors
- 192GB of 2933MHz Registered ECC DDR4 memory
- 2x 240GB mirrored OS SSDs
- 100Gb Omni-Path interconnect
- 1U chassis with redundant power
- 3 year warranty with lifetime technical support
- Login nodes are for users to SSH to the cluster to submit jobs, copy files to/from the cluster, and to compile code they want to run

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NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
ACTSTOR X4251 ZFS STORAGE NODE	1	$18,200.00	$18,200.00

- 2x Xeon x6230 (20-core, 2.1GHz) processors
- 192GB of 2933MHz Registered ECC DDR4 memory
- 2x 240GB mirrored OS SSDs
- 144TB of raw storage capacity
- 100Gb Omni-Path interconnect
- 3 year warranty with lifetime technical support

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
NETWORK SYSTEM	1	$1,200.00	$1,200.00

Node communication is provided through an Ethernet network. This switch gives you the ability to:
- Manage file system traffic, cluster utility communication, system admin & maintenance
- Remotely monitor temperatures, voltages, fans, and power supplies
- Allow for remote power cycling of each node
- Uplink via 10Gb ports

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
OMNI-PATH FABRIC	1	$8,950.00	$8,950.00

The Omni-Path fabric is for node-to-node communication and provides 100Gb of bandwidth and latencies around 1 microsecond. Other interconnects such as IB or 100GbE are available.

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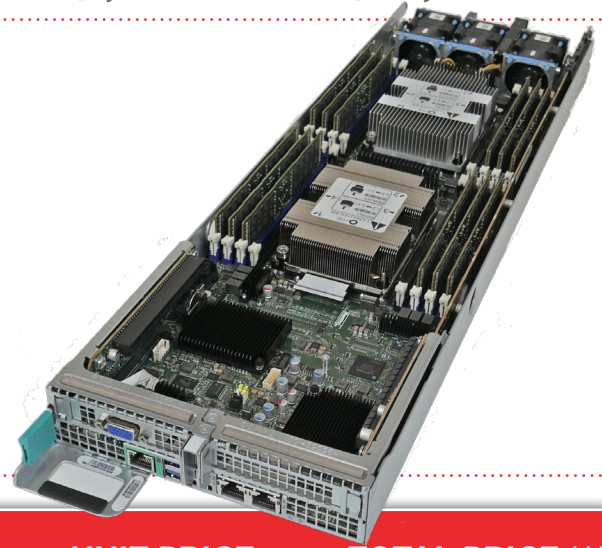
$150,000 CLUSTER

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
SOFTWARE	1	$0.00	$0.00

Includes:
- CentOS - the latest, stable revision
- Cloner - Image replication and node installation software
- ACT Utils - Set of command line utilities to easy cluster admin and management
- Multiple message passing (MPI) libraries for both Ethernet and InfiniBand
- SLURM - Job queuing / scheduler system
- Benchmarking/Diagnostic tools
- Commercial compilers are available upon request

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
RACK AND POWER INFRASTRUCTURE	1	$2,800.00	$2,800.00

ACT's clusters ship fully configured in racks so that they're ready to go once they've been removed from their pallets and moved into the data center. It's a true turn-key solution to get you up and running out of the box.

POWER AND COOLING (ESTIMATED DATA)
Weight: 990 lbs.
Rack space used: 18U
Power: 10 kW
BTU: 36,000 BTU/hr.
HVAC needed: 3 tons

CIRCUITS NEEDED:
Qty 3 - 220V at 30 Amps
NEMA L6-30 receptacles needed

L6-30R

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$250,000 CLUSTER

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NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
ACTBLADE X210 COMPUTE NODES	23	$7,800.00	$179,400.00

- 2x Xeon 6230 (20-core, 2.1GHz) processors
- 96GB of 2933MHz Registered ECC DDR4 memory
- 240GB SSD
- 100Gb Omni-Path interconnect
- These nodes are housed in our ACTblade chassis that supports 4x compute nodes in 2U of space and includes redundant power
- 3 year warranty with lifetime technical support
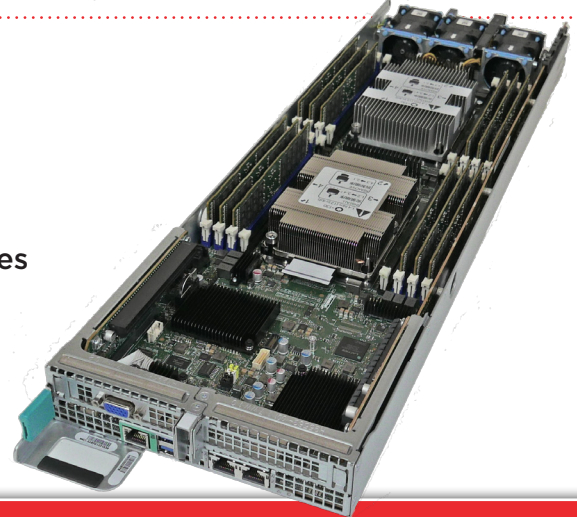
NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
ACTSERV X1210 LOGIN NODE	1	$9,650.00	$9,650.00

- 2x Xeon 6230 (20-core, 2.1GHz) processors
- 192GB of 2666MHz Registered ECC DDR4 memory
- 2x 240GB mirrored OS SSDs
- 100Gb Omni-Path interconnect
- 1U chassis with redundant power
- 3 year warranty with lifetime technical support
- Login nodes are for users to SSH to the cluster to submit jobs, copy files to/from the cluster, and to compile code they want to run

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NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
BEEGFS PARALLEL FILE SYSTEM HDD STORAGE BLOCK	1	$40,600.00	$40,600.00

Storage target: Storage target as configured below
- Enclosure: 4U, 60 drive JBOD with redundant SAS expanders
- Power supply: Dual redundant 1600W PSU
- Storage space: 384TB usable - 6GB/s (60x 8TB)
- Onsite cold spare(s): 8TB Drive w/ Carrier
- Warranty: 3 year standard warranty

Storage server: Storage server as configured below
- Base system: 2U Dual socket Xeon storage controller
- Metadata option: Shared meta data with storage server
- Metadata size: Support a total filesystem less than 640TB
- Networking: 2x RJ45 10Gb ethernet ports, 2x 10Gb SFP+ ethernet ports
- Fabric: Single port Omni-Path (100Gb/s)
- Warranty: 3 year standard warranty
- BeeGFS support: 3 year BeeGFS support contract

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
NETWORK SYSTEM	1	$1,750.00	$1,750.00

- Manage file system traffic, cluster utility communication, system admin & maintenance
- Uplink via 10Gb ports
- Remotely monitor temperatures, voltages, fans, and power supplies
- Allow for remote power cycling of each node

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$250,000 CLUSTER

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
OMNI-PATH FABRIC	1	$13,000.00	$13,000.00

The Omni-Path fabric is for node-to-node communication and provides 100Gb of bandwidth and latencies around 1 microsecond. Other interconnects such as IB or 100GbE are available.

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
SOFTWARE	1	$0.00	$0.00

Includes:
- CentOS - the latest, stable revision
- Cloner - Image replication and node installation software
- ACT Utils - Set of command line utilities for easy cluster admin and management
- Multiple message passing (MPI) libraries for both Ethernet and InfiniBand
- SLURM - Job queuing / scheduler system
- Benchmarking/Diagnostic tools
- Commercial compilers are available upon request

| NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
RACK AND POWER INFRASTRUCTURE	1	$5,600.00	$5,600.00

ACT's clusters ship fully configured in racks so that they're ready to go once they've been removed from their pallets and moved into the data center. It's a true turn-key solution to get you up and running out of the box.

POWER AND COOLING (ESTIMATED DATA)
Weight: 1,400 lbs.
Rack space used: 21U
Power: 15 kW
BTU: 54,000 BTU/hr.
HVAC needed: 4.5 tons

CIRCUITS NEEDED:
Qty 2 - 208V 3PH at 60 Amps
IEC 309 60A 3P+PE receptacles needed
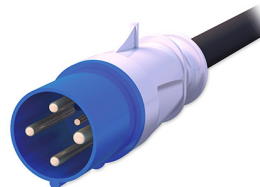
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HPC PRICING GUIDE

Finding Value and Optimal Performance in Any Budget
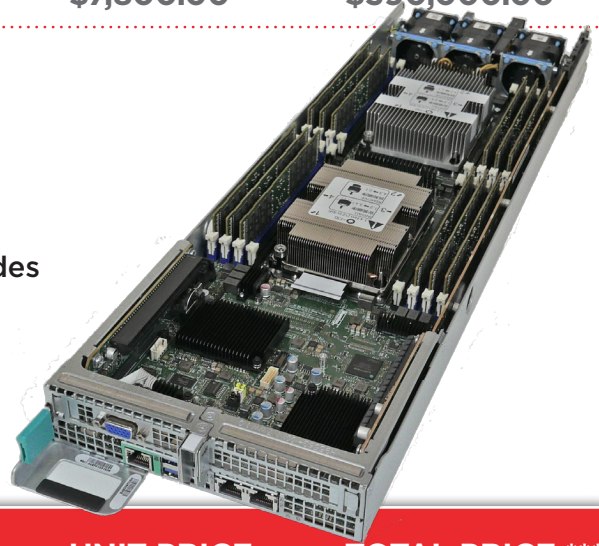
$500,000 CLUSTER

The following solutions feature the 6230 Intel Xeon Scalable processor but there are many more options available.

For questions about this system, contact:
sales@advancedclustering.com | Phone: (913) 643-0300

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
ACTBLADE X210 COMPUTE NODES	50	$7,800.00	$390,000.00

- 2x Xeon 6230 (20-core, 2.1GHz) processors
- 96GB of 2933MHz Registered ECC DDR4 memory
- 240GB SSD
- 100Gb Omni-Path interconnect
- These nodes are housed our ACTblade chassis that supports 4x compute nodes in 2U of space and includes redundant power
- 3 year warranty with lifetime technical support

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
ACTSERV X1210 LOGIN NODE	1	$9,650.00	$9,650.00

- 2x Xeon 6230 (20-core, 2.1GHz) processors
- 192GB of 2933MHz Registered ECC DDR4 memory
- 2x 240GB mirrored OS SSDs
- 100Gb Omni-Path interconnect
- 1U chassis with redundant power
- 3 year warranty with lifetime technical support
- Login nodes are for users to SSH to the cluster to submit jobs, copy files to/from the cluster, and to compile code they want to run

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*** PRICE DOES NOT INCLUDE ANY DISCOUNTS AND IS SUBJECT TO CHANGE. CONTACT US FOR CURRENT PRICING AND DISCOUNT INFORMATION.

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NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
BEEGFS PARALLEL FILE SYSTEM HDD STORAGE BLOCK	1	$52,450.00	$52,450.00

Storage target: Storage target as configured below
- Enclosure: 4U, 60 drive JBOD with redundant SAS expanders
- Power supply: Dual redundant 1600W PSU
- Storage space: 576TB usable - 6GB/s (60x 12TB)
- Onsite cold spare(s): 12TB Drive w/ Carrier
- Warranty: 3 year standard warranty

Storage server: Storage server as configured below
- Base system: 2U Dual socket Xeon storage controller
- Metadata option: Shared meta data with storage server
- Metadata size: Support a total filesystem less than 1.2PB
- Networking: 2x RJ45 10Gb ethernet ports, 2x 10Gb SFP+ ethernet ports
- Fabric: Single port Omni-Path (100Gb/s)
- Warranty: 3 year standard warranty
- BeeGFS support: 3 year BeeGFS support contract

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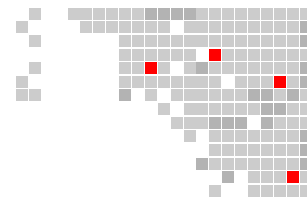
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NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
NETWORK SYSTEM	1	$3,600.00	$3,600.00

- Manage file system traffic, cluster utility communication, system admin & maintenance
- Uplink via 10Gb ports
- Remotely monitor temperatures, voltages, fans, and power supplies
- Allow for remote power cycling of each node

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
OMNI-PATH FABRIC 2:1	1	$36,000.00	$36,000.00

The Omni-Path fabric is for node-to-node communication and provides 100Gb of bandwidth and latencies around 1 microsecond. Other interconnects such as IB or 100GbE are available.

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
SOFTWARE	1	$0.00	$0.00

- CentOS - the latest, stable revision
- Cloner - Image replication and node installation software
- ACT Utils - Set of command line utilities for easy cluster admin and management
- Multiple message passing (MPI) libraries for both Ethernet and InfiniBand
- SLURM - Job queuing / scheduler system
- Benchmarking/Diagnostic tools
- Commercial compilers are available upon request

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
RACK AND POWER INFRASTRUCTURE	1	$8,300.00	$8,300.00

ACT's clusters ship fully configured in racks so that they're ready to go once they've been removed from their pallets and moved into the data center. It's a true turn-key solution to get you up and running out of the box. This is spread into two racks.

POWER AND COOLING (ESTIMATED DATA)
Weight: 2,500 lbs.
Rack space used: 38U
Power: 31.5 kW
BTU: 108,000 BTU/hr.
HVAC needed: 9 tons

CIRCUITS NEEDED:
Qty 3 - 208V 3PH at 60 Amps
IEC 309 60A 3P+PE receptacles needed

Please confirm this type of power is available in your data center. Advanced Clustering Technologies can provide alternative PDUs as needed.