HPC PRICING GUIDE

Finding Value and Optimal Performance in Any Budget

AMD

$150,000 CLUSTER

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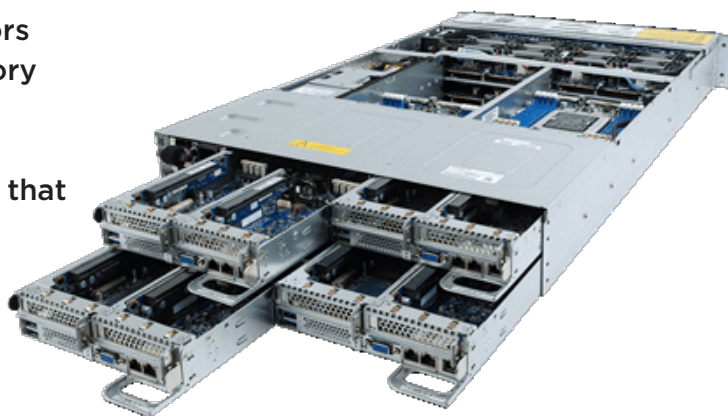Email: sales@advancedclustering.com | Phone: (913) 643-0300

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
ACTBLADE E230 COMPUTE NODES	8	$9,387.50	$75,100.00

- 2x AMD EPYC 7452 (32-core, 2.35 GHz) processors
- 256GB of 3200MHz Registered ECC DDR4 memory
- 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
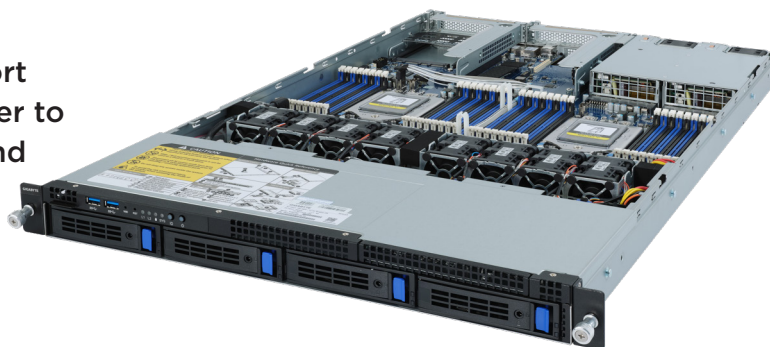- 3 year warranty with lifetime technical support

https://bit.ly/actbladee230

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
- 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
- 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

https://bit.ly/actserve1210

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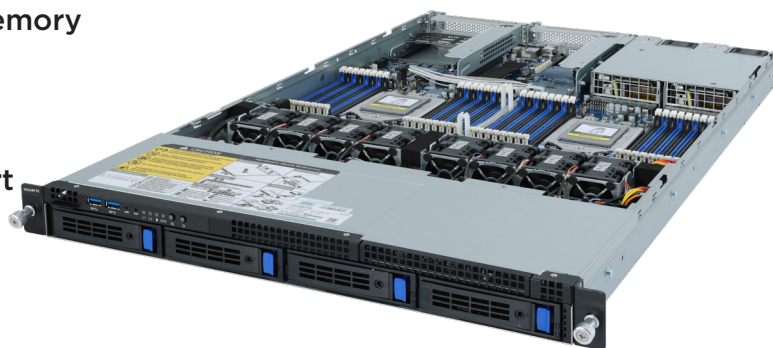
AMD

$150,000 CLUSTER

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

https://bit.ly/actserve1210

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
ACTSTOR 4060J - STORAGE TARGET	1	$29,400.00	$29,400.00

- 384TB usable storage
- 4U chassis with redundant power
- 1x 8TB onsite cold spare drive
- 3-Year Advanced Overnight Warranty

https://bit.ly/actstorx4060j

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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

- 10x 100Gb 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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NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
SOFTWARE	1	$0.00	$0.00

ClusterVisor is Advanced Clustering's HPC cluster management solution built on RHEL 8. ClusterVisor 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
- Configure nodes, SLURM, time servers, etc.
- Sensors track such things as CPUs, memory, InfiniBand and GPUs

https://bit.ly/clustervisor

clustervisor

advanced clustering technologies, inc.

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: 8.4 kW
BTU: 28,825.77 BTU/hr.
HVAC needed: 2.40 tons

CIRCUITS NEEDED:

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

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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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AMD

$250,000 CLUSTER

The following solution features the AMD EPYC 7452 processors with 1,024 total cores and 4Gb of memory per core. Visit our site at https://bit.ly/clprocessors to see all processor choices. For questions about this system, contact:
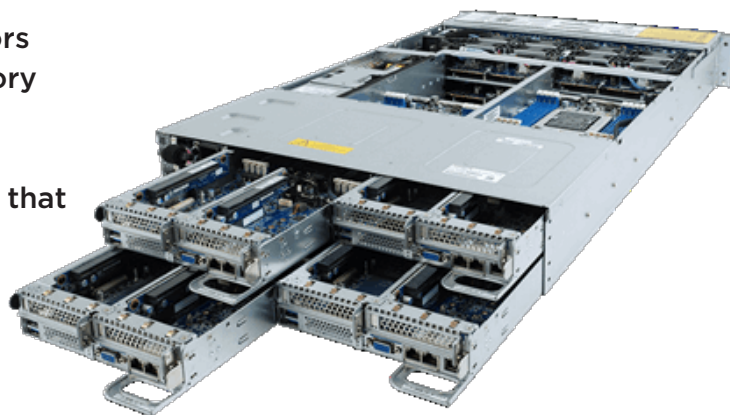Email: sales@advancedclustering.com | Phone: (913) 643-0300

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
ACTBLADE E230 COMPUTE NODES	16	$9,387.50	$150,200.00

- 2x AMD EPYC 7452 (32-core, 2.35 GHz) processors
- 256GB of 3200MHz Registered ECC DDR4 memory
- 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
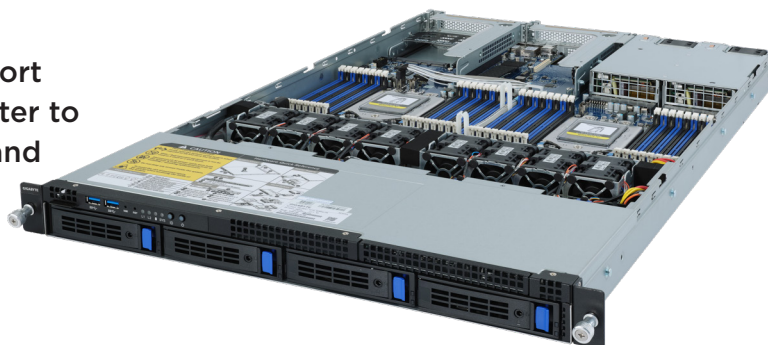- 3 year warranty with lifetime technical support

https://bit.ly/actbladee230

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
- 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
- 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

https://bit.ly/actserve1210

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Finding Value and Optimal Performance in Any Budget

AMD

$250,000 CLUSTER

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
BEEGFS PARALLEL FILE SYSTEM	1	$64,250.00	$64,250.00

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: HDR-100 InfiniBand
- Warranty: 3 year standard warranty
- BeeGFS support: 3 year BeeGFS support contract
- 2 day BeeGFS Remote Training via Video Conference

https://bit.ly/actservx2210

Storage target: Storage target as configured below

- Enclosure: 4U, 60 drive JBOD with redundant SAS expanders and power supplies
- Storage space: 576TB usable - 6GB/s (60x 12TB)
- Onsite cold spare: 12TB Drive w/ Carrier
- 3 year Advanced Overnight Warranty

https://bit.ly/actstorx4060j

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

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
- Uplink via 10Gb ports
- Remotely monitor temperatures, voltages, fans, and power supplies
- Allow for remote power cycling of each node

HPC PRICING GUIDE

Finding Value and Optimal Performance in Any Budget

AMD

$250,000 CLUSTER

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
HDR INFINIBAND NETWORKING	1	$18,700.00	$18,700.00

- 18x 100Gb 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

ClusterVisor is Advanced Clustering's HPC cluster management solution built on RHEL 8.
ClusterVisor 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
- Configure nodes, SLURM, time servers, etc.
- Sensors track such things as CPUs, memory, InfiniBand and GPUs

https://bit.ly/clustervisor

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AMD

$250,000 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

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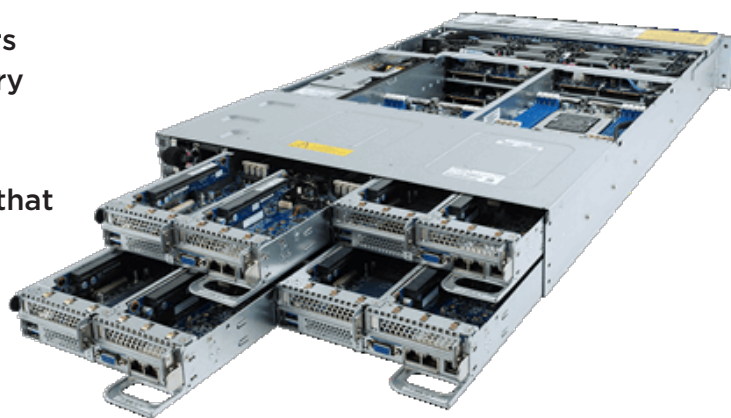**Finding Value and Optimal Performance in Any Budget**

AMD

$500,000 CLUSTER

The following solution features the AMD EPYC 7452 processors with 2,688 total cores and 4Gb of memory per core. Visit our site at https://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	42	$9,387.50	$394,275.00

- 2x AMD EPYC 7452 (32-core, 2.35 GHz) processors
- 256GB of 3200MHz Registered ECC DDR4 memory
- 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
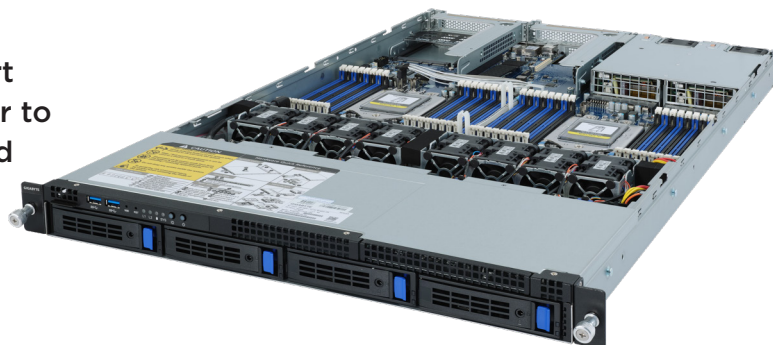- 3 year warranty with lifetime technical support

https://bit.ly/actbladee230

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
- 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
- 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

https://bit.ly/actserve1210

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NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
BEEGFS PARALLEL FILE SYSTEM	1	$64,250.00	$64,250.00

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: HDR-100 InfiniBand
- Warranty: 3 year standard warranty
- BeeGFS support: 3 year BeeGFS support contract
- 2 day BeeGFS Remote Training via Video Conference

https://bit.ly/actservx2210

Storage target: Storage target as configured below
- Enclosure: 4U, 60 drive JBOD with redundant SAS expanders and power supplies
- Storage space: 576TB usable - 6GB/s (60x 12TB)
- Onsite cold spare: 12TB Drive w/ Carrier
- Warranty: 3 year Advanced Overnight Warranty

https://bit.ly/actstorx4060j

HPC PRICING GUIDE

Finding Value and Optimal Performance in Any Budget

AMD

$500,000 CLUSTER

NAME	QUANTITY	UNIT PRICE	TOTAL PRICE ***
NETWORK SYSTEM	1	$1,900.00	$1,900.00

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
- 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	$22,975.00	$22,975.00

- 46x 100Gb 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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AMD

$500,000 CLUSTER

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

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- Configure nodes, SLURM, time servers, etc.
- Sensors track such things as CPUs, memory, InfiniBand and GPUs

https://bit.ly/clustervisor

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clustervisor

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: 7.92 tons

CIRCUITS NEEDED:
Qty 2 - IEC 309 60A 3P+PE
208V 3PH at 60 Amps

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