

# VENDOR SELECTION GUIDE:



## SELECTING THE RIGHT PARTNER FOR GPU-ACCELERATED COMPUTING

Graphics processing units (GPUs) are revolutionizing high-performance computing (HPC) and data analytics. A single GPU can accelerate some software by 100x over a CPU alone. Plus, the GPU achieves this acceleration while being more power- and cost-efficient than a CPU.

When looking for a vendor to help integrate GPU acceleration into your Infrastructure, you'll hear talking points about performance, security, and value. However, these are all characteristics of GPU-acceleration done well and not specific to one provider. Look beyond these buzzwords and dive deeper into the following topics:



### GPU and CPU Expertise

GPU-accelerated computing requires CPUs and a GPU working in harmony in a single, efficient hardware design. Does the vendor's background include significant experience in both? Does the vendor have access to the latest CPU and GPU technology? What sort of awards does the vendor have related to GPUs or CPUs?

### Track Record of Success

How long has the vendor been in business? Does the vendor have any well-known customers? Do customers trust the vendor enough to come back?

### Offers Ways to Reduce OpEx

Does the vendor offer professional services in case you need consulting help or just another set of hands to run your compute loads? Do these service professionals have a strong background in HPC, GPU-acceleration, and Linux, the language of most HPC and analytics infrastructure?

### Offers Ways to Reduce CapEx

Does the vendor offer financing options to help you lock in costs at current rates or spread out capital costs over time with extended terms of repayment?

### Fast Start

GPU-accelerated systems have all the same setup difficulties as traditional compute servers. Do you have to do any O/S installation, do you have to compile any applications? Do you have to do any Systems Administration work with your vendor, or do they deliver a fully loaded system, already "stood up" on arrival? Does the vendor offer implementation services to help you get up and running quickly? Do the people providing these services have a strong background in HPC and Linux?

### Support

Can you access support professionals 24 hours a day and via multiple channels? Does the vendor include any free support or do you have to pay extra for that? Is there self-support documentation that you can take advantage of? Do the people providing these services have a strong background in HPC, GPU-acceleration, and Linux? What are the customer satisfaction ratings of the vendor's support offerings?

#### Learn More

See related solutions at [www.penguincomputing.com/gpu-accelerated-computing](http://www.penguincomputing.com/gpu-accelerated-computing)

For pricing on your specific design needs, contact a representative by email at [sales@penguincomputing.com](mailto:sales@penguincomputing.com) or call 1-888-PENGUIN (736-4846).

#### Purchase with Financing

Finance products, services, even soft costs with Penguin Computing Capital. Choose from options such as no money down, flexible billing choices, extended repayment timelines, and a variety of end-of-term alternatives.

#### About Penguin Computing

For 20 years, the Penguin Computing team of artificial intelligence (AI), engineering, and computer science experts has reimagined how startups, Fortune 500, government, and academic organizations solve complex technology challenges and achieve their organizational goals. We specialize in innovative on-premise high-performance computing (HPC), bare metal HPC in the cloud, AI, and storage technologies coupled with leading-edge design, implementation, hosting, and managed services including sys-admin and storage-as-a-service, and highly rated customer support. Penguin Computing has brought its expertise in open platforms including the Open Compute Project (OCP) to more than 2,500 customers in 50 countries across nine major vertical markets.