

# SELECTING A HPC PARTNER FOR WEATHER SCIENCE



You have huge amounts of data and heavy compute workloads – but you need to accelerate your timelines to meet your target dates or maintain forecast SLAs. So you choose a Linux-based high-performance computing (HPC) solution. Great decision. It's very cost-effective and energy efficient, yet still offers unlimited scalability, reliability, and workload flexibility. But how do you choose from the different types of offerings available to you?



You'll hear talking points about performance, security, and value. However, those are all characteristics of HPC done well and not specific to one provider. Look beyond these buzz-words and dive deeper into the following topics:

## Linux/HPC Expertise

- How long has the vendor been involved in Linux and cluster computing?
- What sort of Linux and HPC achievements has the vendor achieved?

## Experience

- Does the vendor focus on weather? If they support other, related applications, are they willing to expand their efforts into the applications you need?
- Will they help run your customized model or code?

## Offers Ways to Reduce OpEX

- Does the vendor offer professional services for consulting help or just another set of hands to run your compute loads?
- Do these services professionals have a strong background in HPC and Linux?

## Support

- Can you access support professionals 24 hours a day via multiple channels for product downtime?
- Is there self-support documentation that you can take advantage of?
- Do the people providing these services have a strong background in HPC and Linux?

### Learn More

See related solutions at [www.penguincomputing.com/engineering](http://www.penguincomputing.com/engineering)

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

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### About Penguin Computing

Penguin Computing, Inc. is a 20-year-old, U.S.-based global provider of high-performance computing (HPC), artificial intelligence (AI), and data center solutions with more than 2,500 customers in 40 countries, across eight major vertical markets. Penguin Computing offers a comprehensive portfolio of hardware, software, and services, including solutions based on the Open Compute Project (OCP), as well as financing and top-rated customer support. Penguin Computing products include Linux-based servers, software, integrated, turn-key clusters, enterprise-grade storage, and bare metal HPC on cloud via Penguin Computing® On-Demand™ (POD).

## Track Record of Success

- How long has the vendor been in business? Does the vendor have well-known customers?
- How many customers do they have that do weather forecasting or climate research?

## Fast Start

- 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?
- Can you understand your workflow from your perspective?

## Offers Ways to Reduce CapEX

- Does the vendor offer HPC as a service so that you can expand capacity without expanding hardware inventory?
- Do they have your favorite software tuned and available?