

# PRODUCTS THAT POWER INNOVATION

BARE METAL | SECURE ENVIRONMENT | DEDICATED, UTILITY & SELF SERVICE AGREEMENTS | NO DATA ACCESS OR TRANSFER FEES

Products forged over years of experience providing both "Embarrassingly Parallel" and "Distributed" HPC solutions. R Systems' industry specific products run both Linux and Windows Operating Systems offering a firm foundation to meet your optimal computational objectives.

## BIG DATA

R Systems has provided Big Data clients with solution architectures from the common HDFS solutions to highly scalable systems with shared parallel file systems. We focus on your application's specific needs to ensure a properly balanced system, reducing costs and decreasing time to solution.



## ACTUARIAL

Nested stochastic modeling driven by a principle based and computationally intensive regulatory environment is central to actuarial clients' HPC operations. These niche softwares generally have specific architectural and workflow requirements. It is for this reason that so many of R Systems' actuarial clients are repeat customers: our ability to build a fast, flexible platform that is compatible with your firm's actuarial modeling software of choice.



## OIL & GAS

Seismic and reservoir simulations are critical components to upstream operations in the oil and gas industry. Access to leading HPC infrastructure is the key to analyzing this data successfully and on a continual basis. R Systems offers customizable storage and data processing solutions that match industry requirements to return results quickly and accurately.



## ENGINEERING

Scenario modeling is the cornerstone of every engineer's job, regardless of industry. R Systems has helped many engineering clients attain optimal resource management with both ISV and home-grown applications, thus reducing the client's time to solution, and heightening the accuracy of their findings.



## MOTORSPORTS

Pushing technology to the limits in racing is the norm and high performance computing makes it all possible. As an automotive engineer, the additional responsibilities of acquiring, implementing and managing HPC resources to meet the tight racing deadlines of project research and simulation can be difficult at best. At R Systems we address those demands by providing vetted solutions that meet your budgetary and racing regulatory requirements.

# R SYSTEMS



## FINANCIAL

Financial institutions like banks, hedge funds and proprietary trading shops use R Systems' offerings to run their risk management software. We are set up for firms to use us for their daily production, back-testing, and risk management modeling needs.

## WIND ENERGY

WRF is the standard forecasting application for all segments of the atmospheric sciences. R Systems' range of data processing solutions provide consistency for all ends of meteorological forecasting and ease in updating to the latest version of WRF.



## BIO GEN

Genetic mapping using publicly available databases typically requires large scale clusters with significant data storage. Many bio-gen applications are very demanding in all corners; CPU, Memory, Interconnect, and Shared Storage are all stressed. R Systems can take running these jobs off your hands with a variety of storage options and the compute capacity readily available to process high throughput screening and other similar jobs in order to rapidly return results.



## ACADEMIA

Lack of large shared research resources, scheduling allocation, or difficulty transferring large data sets to public cloud providers can hinder research timelines and grant proposals. Let R Systems meet your bursting or long term requirements by utilizing our I2 connected data centers.

# The Right Solution for your HPC Requirements

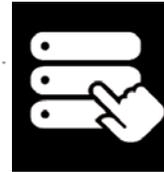
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## HPC Consulting

Let our engineers help optimize your in-house HPC resources. Our experienced team of HPC experts will consult with your IT team to design and implement optimal cluster configurations. We can remotely manage and monitor, freeing your on-site team to interact with users and address enterprise systems support.

- Detailed on-boarding process for existing installation or to set-up new R Systems-implemented installation
- Not a black-box vendor—detailed system configuration documentation provided
- Designed to meet your needs



## DEDICATED

A dedicated offering from R Systems provides a purpose-built cluster to your specifications,

leveraging existing equipment when available to reduce costs. These clusters are completely bare-metal, separated entirely from other tenants, and allow full root access on request. The best value for long-term, high security, or niche technical requirements (HW, OS, Scheduler, etc.), This offering includes full white-glove service with R Systems functioning as an extension of your in-house IT team.



## UTILITY

R Systems maintains existing resources in a pre-configured HPC environment: shared login hosts, scheduler queues, and NFS/Lustre storage. This environment is all about simplicity, allowing users to upload custom applications or use pre-installed ISV and open source applications to run jobs, and gain access via standard protocols such as SSH and VNC. All jobs are node-exclusive. This solution is perfect for bursting or intermittent cluster requirements. Billing is based upon the hours used and the scheduler queues, but login host access for upload/download, job set-up and results viewing are absolutely free. This includes full white-glove service with R Systems serving as an extension of your existing IT team.