HIGH PERFORMANCE COMPUTATIONAL SERVICES (HPCS)
WWW.DRI.EDU

CUSTOMER-CENTRIC, SECURE, & RESEARCH FOCUSED

The High Performance Computing Services (HPCS) team at the Desert Research Institute (DRI) offers cost-effective, responsive, adaptable, and technology-current computational service in a secure environment.

WHY CHOOSE HPCS AT DRI?

Hesitant to run your data in the cloud? Operating with a "small shop" approach to service and support, our HPCS team provides superior solutions for those seeking a reliable alternative to cloud-based services. Designed for flexibility, our HPCS servers, storage, and networks run on physical equipment securely housed at DRI, managed by on-site staff.

You get what you pay for. Other virtualized, cloud-based systems (vCPU) share their computing resources among many clients. With HPCS at DRI, you pay only for the services you use versus the virtual ones you don't.

INTERESTED IN LEARNING MORE?

We welcome visits and are happy to answer questions. HPCS Director Dave Decker, Ph.D., is also available to address specific concerns. We offer a limited free trial during which HPCS staff will work with you to strategize plans customized to meet individual needs and expectations.

WHAT DRIVES HPCS AT DRI:

- Secure client- and research-focused systems
- Continuous efforts to reduce costs
- Ongoing enhancements to computational performance
- Powerful, reliable, and secure technological infrastructure
- Attention and support to all clients, regardless of size or investment

NEVADA SCIENCE, GLOBAL SOLUTIONS

The Desert Research Institute (DRI) is a recognized world leader in basic and applied interdisciplinary research. Committed to scientific excellence and integrity, DRI faculty, students, and staff have developed scientific knowledge and innovative technologies in research projects around the globe. Since 1959, DRI's research has advanced scientific knowledge, supported Nevada's diversifying economy, provided science-based educational opportunities, and informed policy makers, business leaders, and community members. With campuses in Reno and Las Vegas, DRI serves as the non-profit research arm of the Nevada System of Higher Education.
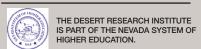
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DRI
Desert Research Institute

QUALITY

Powerful, reliable, scalable, and secure, our technologhical infrastructure allows for the highest quality services:
- Dell Compute Nodes ensure high speed processing
- Mellanox network switch creates optimal connectivity
- Infiniband storage provides faster accessibility

VALUE

HPCS cost structure is competitive, transparent, and straightforward. We work continously to reduce costs whenever possible. We charge our customers by the CPU hours used and bill monthly for simplicity. There are no add-on charges for storage, networking, or other processes.

SECURITY

Your data security is our utmost concern. Continuous video surveillance safeguards our HPCS facility. State-of-the-art equipment is locked in server racks housed within an access-controlled server room. In addition, we require secure, two-factor authentication for all system users. Separated, secure networking provides complete isolation of client workloads when necessary.

INNOVATION

The HPCS team is dedicated to ongoing enhancements to computational performance designed to improve customer experience and satisfaction. Suitable for a variety of workloads, advancements in our research-focused systems include:
- Benchmarking the Weather Research & Forecasting mode, which is employed in atmospheric research and meteorological forecasting
- Utilizing compute notes with Intel Knights Landing (KNL) processors and Omni-Path Architecture (OPA) networking
- Improving job pre-emption within the scheduler for job-prioritization
- Creating better client reporting tools
  - Allow custom graphing and reports based on various collected data points
  - Cost estimation

CONTACT US

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