

Office of the Vice President for Information Technology

Research Computing

Research Computing (RC) is a support team at the University of Virginia whose mission is to empower researchers to achieve more through the use of cutting-edge computational resources.

We strive to create innovative solutions for researchers who need help solving complex optimization, parallelization, workflow, and data analysis issues. Our strategy is to build and maintain the University's best computing platforms while educating the next generation of researchers on the power and utility of advanced computing.

RC can help you find the right system for your computational workloads. From supercomputers to HIPAA secure systems to cloud-based deployments with advanced infrastructure, various systems are available to researchers.

https://arcs.virginia.edu/

Systems We Manage Include:

Rivanna: A traditional high-performance cluster with job scheduler, large file system, modules, and MPI processing

Ivy: A multi-platform, HIPAA-compliant system for secure data that includes dedicated virtual machines (Linux and Windows), Domino Data Lab, and Apache Spark.

Cloud Solutions: Cloud-based computing solutions are also available in Amazon Web Services, Google Cloud Platform, and our private cloud UVA Skyline. All three provide options for quick deployments, short-term lifecycles, and unique requirements such as GPUs or clusters.

Container Services: We are now running DC/OS, a platform designed for running fleets of containers independently of one another. This includes web applications, databases, specialized tools, and other solutions in support of HPC jobs.

UVA Development Hub

An opportunity for all members of our community to collaborate on applications and solutions that benefit UVA. Find help here to create a new App or push your App to a new level!

https://devhub.virginia.edu/

Computation & Data Resource Exchange (CADRE)

A University-wide exchange designed to simplify the process of finding local research technology solutions. Comprehensive list of software, services, training opportunities, storage solutions, and computational hardware available across UVA.

http://cadre.virginia.edu/

Let us help you with your next computational research project!

hpc-support@virginia.edu (434) 982-2086

Office of the Vice President for Information Technology Website

https://vpit.virginia.edu

