

The Extreme Science and Engineering Discovery Environment (XSEDE) is the most advanced, powerful, and robust collection of integrated digital resources and services in the world. It is a single virtual computing system that scientists can use to interactively share resources, data and expertise.

Scientists, engineers, social scientists, and humanities experts around the world — many of them at colleges and universities — use advanced digital resources and services every day. Supercomputers, collections of data, and new tools are critical to the success of those researchers, who use them to make our lives healthier, safer, and better.

XSEDE integrates these resources and services, makes them easier to use, and helps more people use them.

Currently XSEDE supports more than a dozen supercomputers and high-end visualization and data analysis resources. XSEDE's integrated, comprehensive suite of services connects with other high-end facilities and campus-based resources, serving as the foundation for a national computing ecosystem. Among XSEDE's advanced digital services are common authentication and security mechanisms, global namespace and filesystems, remote job submission and monitoring, and file transfer services. XSEDE's architecture is based on a judicious use of standards and allows open development for future digital services and enhancements.

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XSEDE is led by the University of Illinois' National Center for Supercomputing Applications. The partnership includes: the Cornell University Center for Advanced Computing, Indiana University, Jülich Supercomputing Centre, National Center for Atmospheric Research, National Center for Supercomputing Applications - University of Illinois at Urbana-Champaign, National Institute for Computational Sciences - University of Tennessee Knoxville/Oak Ridge National Laboratory, Ohio Supercomputer Center - The Ohio State University, Pittsburgh Supercomputing Center - Carnegie Mellon University/University of Pittsburgh, Purdue University, Rice University, San Diego Supercomputer Center - University of California San Diego, Shodor Education Foundation, Southeastern Universities Research Association, Texas Advanced Computing Center - The University of Texas at Austin, University of California Berkeley, University of Chicago, and the University of Virginia.

- **XSEDE website: www.xsede.org**
- **How to get time on XSEDE computing resources: www.xsede.org/allocations**
- **Education and Outreach, Campus Champions: outreach-info@xsede.org**
- **General questions: info@xsede.org**



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