



Advanced Computing Center for Research and Education

www.accre.vanderbilt.edu

ACCRE is a faculty-led high-performance computing center for Vanderbilt researchers. ACCRE staff members maintain and administer a cluster consisting of >6,000 processor cores and >4 petabytes of disk storage on a 24/7 basis. Our mission includes:

- Emphasizing the ***application of computational resources*** to answer important research questions
 - Various software packages (e.g., Matlab, R, Python, Java, MPI, SAS, among many other) installed on cluster
 - Job scheduling software available on cluster which matches users' needs with available resources
- ***Lowering barriers*** to participating in computational research
 - Free training courses offered regularly
 - System administration and user support provided so that users can focus on research
- ***Expanding the paradigm*** to find ways to use computing in humanities, arts, and education
- ***Promoting community*** to develop a campus culture that promotes and supports computational research
- Maintaining an ***investigator-driven*** facility

Additional ACCRE features include security measures for protecting user data (including EAR, ITAR, PHI, RHI, and propriety data) and a parallel file system for high-bandwidth file I/O.

Over the past decade Vanderbilt has supported ACCRE as a trans-institutional center, allowing us to offer cost-effective services for computing and storage to Vanderbilt researchers. Please refer to our

website for pricing information and other details. Inquiries may be directed to accre-inquiry@lists.accre.vanderbilt.edu.