



Events

[Current Events](#)[Lectures ▾](#)[Events Archive ▾](#)

CCT Colloquium Series

Generic Distributed Data Management Technology**Reagan Moore, San Diego Supercomputer Center**

Director of Data Intensive Computing Environments

Johnston Hall 338

November 03, 2006 - 03:00 pm

Abstract:

Multiple communities are developing data management systems for the sharing of data (data grids), the publication of data (digital libraries), the preservation of data (persistent archives), and the ingest of data (real-time sensor systems). Fortunately, a common approach based on data grid technology is emerging for the organization, management, and control of distributed data. I will present the concepts behind the Storage Resource Broker data grid, an analysis of the capabilities that are required for managing distributed data, and examples of the use of the SRB in production settings. Current research at the San Diego Supercomputer Center in distributed data management is focused on the application of management policies through the integration of rule engines with data grids. Management policies can include consistency assertions, access constraints, integrity assertions, and authenticity assertions.

Speaker's Bio:

Moore is Director of Data Intensive Computing Environments at the San Diego Supercomputer Center. He coordinates research efforts in development of data grids, digital libraries, and persistent archives. Moore is the principal investigator for the development of the Storage Resource Broker data grid technology, which is used to support internationally shared collections. Collaborations using the technology include the NARA research prototype persistent archive, the NHPRC Persistent Archive Testbed, the NSF National Science Digital Library persistent archive, and the California Digital Library - Digital Preservation Repository. Data grids using the technology include the BaBar high energy physics data grid, the Australian Partnership for Advanced Computing, the UK e-Science Data Grid, the National Optical Astronomy Observatory, and the WorldWide Universities Network. Moore has been at SDSC since its inception in 1986, initially being responsible for operating system development. Prior to that he worked as a computational plasma physicist at General Atomics on equilibrium and stability of toroidal fusion devices. He has a Ph.D. in plasma physics from the University of California, San Diego, (1978) and a B.S. in physics from the California Institute of Technology (1967).

Refreshments will be served.**This lecture has a reception.**