



An ERA Research Presentation
sponsored by The National Archives Assembly's
Technology Applications Committee and
The Electronic Records Archives (ERA)
Program Management Office
10:00am – 11:00 in the Archives II, 4th Floor Mini-theatre

Wednesday, May 21, 2008

Call-in number: 800-516-9896 Participant code: 3018371496

Building Trustworthy Digital Preservation Repositories

Dr. Reagan Moore, Director of the Data Intensive Cyber Environments (DICE) Group at the University of California San Diego will discuss the work of the DICE Group to develop the next-generation, open source data management system - the integrated Rule Oriented Data System (iRODS) - and its use in creating trustworthy digital preservation repositories.

- **iRODS** builds on the ten years of experience of the DICE Group in developing the widely-used Storage Resource Broker (SRB).
- **iRODS** allows an archives to express its preservation policies as rules that can be automatically executed to carry out preservation processes.

For example, a records manager can configure iRODS rules to identify and retain a collection of digital records for five years, and then move them to another site or destroy them. Archivists can develop rules to automate the migration of all the files in a particular format to a new format to prevent them from becoming inaccessible when the original format becomes obsolete.

The DICE Group is currently developing rules to execute, and validate that a repository is meeting, many of the requirements found in the Trustworthy Repositories Audit and Certification Checklist.

For additional information about this topic, visit these web sites:

- <http://ucsdnews.ucsd.edu/newsrel/supercomputer/02-08iRODS.asp>
- Integrated Rule-Oriented Data System (iRODS) <http://irods.sdsc.edu/>
- Storage Resource Broker (SRB) <http://www.sdsc.edu/srb/>
- DICE Group <http://www.diceresearch.org/>

For more information about this presentation,
please contact Rita Cacas (x71564) or Arian Ravanbakhsh (x72086).
Visit the ERA Research web site at: www.archives.gov/research/