

The Chronopolis Preservation DataGrid

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Abstract: In January 2008, the Library of Congress funded the San Diego Supercomputer Center (SDSC), the UC San Diego Libraries, the National Center for Atmospheric Research (NCAR), and the University of Maryland's Institute for Advanced Computer Studies (UMIACS) to conduct a demonstration and development project of their Chronopolis digital preservation datagrid (<http://chronopolis.sdsc.edu>).

The Chronopolis preservation framework is based on a Storage Resource Broker (SRB) datagrid (<http://www.sdsc.edu/srb>) that utilizes multiple (3) geographically dispersed copies of preserved digital content in order to ensure long-lived durability and availability of archived digital content. The Chronopolis Digital Preservation Archive Development and Demonstration Program will be conducted under the aegis of the Library of Congress's National Digital Information Infrastructure and Preservation Program (NDIIPP) over 14 months (Jan 2008 – March 2009) using up to 50 TB of partner content from the California Digital Library and the Interuniversity Consortium for Political and Social Science Research.

The program will make use of UMIACS's ACE (Audit Control Environment) to ensure data fixity at all three storage nodes as well as creating a reporting mechanism for network transmission reliability and for data integrity using the SRB replication monitor. The content will include web crawl archives and social science archival material that has been curated under the aegis of the NDIIPP program. This update will include information on the status of the project including preliminary information on best practices for content packaging and transfer as related to these two NDIIPP digital collections.

About the author:

Ardys Kozbial is the Technology Outreach Librarian in the University of California, San Diego Libraries, where much of her current work is focused on digital preservation, especially in collaboration with the San Diego Supercomputer Center (SDSC). Additionally, she works on technology-based grant projects for UCSD, from grant writing to project management, depending on the needs of a particular project. Before coming to UCSD, Ardys spent 12 years working in architecture collections at Harvard University, UC Berkeley, the University of Texas at Austin, and Payette Associates (a Boston-based architecture firm) as a librarian and archivist. She received a BA from the University of Michigan and an MS in Library and Information Science from Simmons College.