

GLOBALGRIDFORUM.ORG

Relational Grid Information Systems Research Group

GGF6

Chicago, IL

October, 2002



RGIS-RG Agenda

- **10:00-10:30 - cancelled**

- Dantong Yu, “PPDG Grid Monitoring Project”, Brookhaven National Labs

- **10:30-11:30**

- Setting a Course for RGIS-RG: Open Discussion of Future Directions



Open Discussion of Future Direction

- Charter
- Current State of Affairs
- Roadmap for Future
- RG versus workshop/mini-symposium



RGIS-RG Charter

- **Charter**

- RGIS research group serves researchers leveraging strengths of relational data model for defining, communicating, recording, and querying static and dynamic Grid information.
- Has roots in task group under Grid Information Services (GIS) Working Group and in work on relational approaches to performance data within Grid Performance Working Group.
- Relational services explored by group are complementary to non-relational services being developed in other groups.
- If research conducted by this group is successful, new working group will be formed to create standards for interoperability.



Current State of Affairs

- **Current State of Affairs**

- Charter: RGIS research group **serves researchers** leveraging strengths of **relational data model** for defining, communicating, recording, and querying static and dynamic **Grid information**
- **‘Grid information’ currently being handled in:**
 - RGIS-RG
 - CGS-WG GLUE schema, CIM modeling
 - DAMED-WG performance events, specification of
 - DAIS-WG Database Access and Integration
 - GridIR (BOF) Grid Information Retrieval
- **Well attended sessions, but less success in physical output (documents).**
- **What is the right role for a ‘grid information’ research group?**
 - RG versus workshop/mini-symposium
 - knowledge conduit



RGIS-RG Roadmap

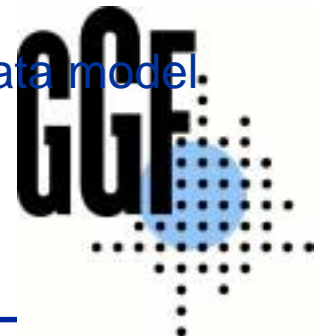
- **Current Charter**

- RGIS research group serves **researchers** leveraging strengths of **relational data model** for defining, communicating, recording, and querying static and dynamic **Grid information**.

- **Roadmap: <filled in during discussion>**

- **Current efforts:**

- Unified relational GIS project (plale, dinda) – relational GIS
- Nordugrid – LDAP, extended schema, extended MDS
- Federated databases (Peter Kunszt) – relational, strong emphasis on security
- RGMA – (Fisher) – performance monitoring and information representation, relational
- Scott Jackson – XML as transport, conversion to SQL, relational data model.



RGIS-RG Roadmap, cont.

- **Roadmap: <filled in during discussion>**
 - **Roundtable interest areas:**
 - Guarantees, I.e., information freshness
 - XML as transport, relational for representation
 - SQL queries posed to grid
 - Unified space to avoid duplication and fragmentation
 - Representing historical information for forecasting
 - Federated databases: non-homogeneous databases, structured and semi-structured data sources (GridIR's focus is primarily unstructured data)
 - **Interest Focuses:**
 - Retrieval, representation, distribution, replication



RGIS-RG Roadmap, cont.

- **Roadmap Ideas: <filled in during discussion>**
 - Survey document of current implementations: type of information stored, representation, access. Include future needs; info stored elsewhere that would be rolled in if representation accommodated it.)
 - Community survey in form of questionnaire
 - Use cases document (queries can currently ask; those that would like to be able to ask.)
 - Database benchmark
 - Keep RG format of 90 min sessions, incorporate workshop
 - Discussion on roadmap to be continued
 - rgis-rg@gridforum.org (forthcoming)
 - relational-gis@cs.nwu.edu



RGIS-RG GGF6 Session Summary

- **Attendance: 25 people (ran in parallel with OGSA Update.)**
- **Conducted Roundtable Discussion of Future Directions. Collective interests in:**
 - Access to, representation of, and scope of grid data.
 - Issues in distribution and replication
 - Integration of unstructured and semistructured data.
 - Historical information for forecasting
- **Group Consensus Roadmap Deliverables**
 - Survey document. Survey current implementations of grid data management. Assess future needs (info stored elsewhere that would be rolled in if representation accommodated it.)
 - Survey in form of questionnaire to community
 - Use cases document (future cases and current needs)
- **Group Consensus on Organizational Structure**
 - Maintain existing RG format of 90 min working sessions, less frequency of meeting, extended to incorporate workshop across WGs with co-chairs organizing

