

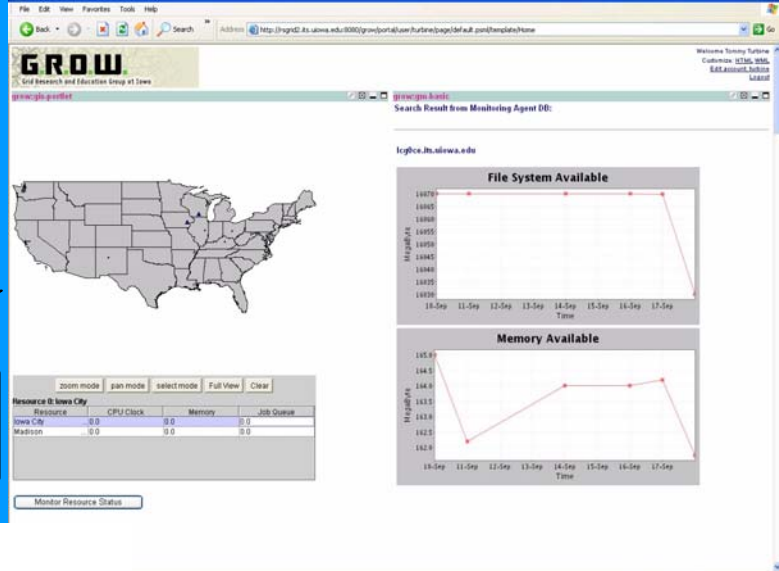
MISSION: The Grid Research and education group @ IoWa (GROW) was initiated to integrate The University of Iowa resources to conduct research, education, and outreach on Grid computing and cyberinfrastructure.

VISION: The vision for GROW is to advance domain sciences and engineering by broadening and strengthening connections between Grid computing and cyberinfrastructure community and domain sciences and engineering communities.

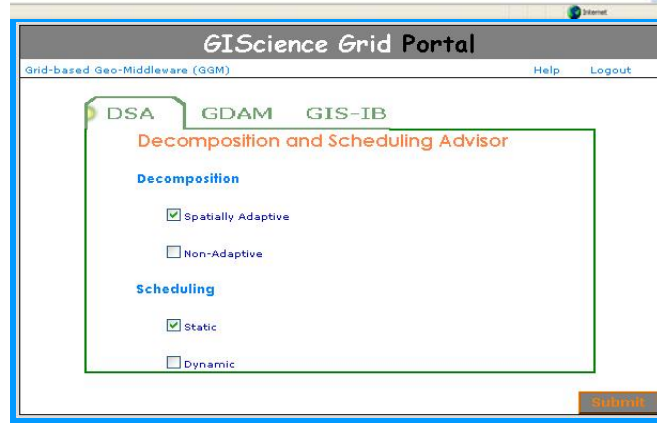
SELECTED CURRENT PROJECTS: USCMS Physics Grids, Grid-based Spatial Statistics Middleware (GSSM), GIScience Grid Portal (GGP), HawkGrid – An Intracampus Research Grid, Grid-enabled Lattice Boltzmann Simulation of Fluid Flow

A Multi-Agent System Architecture for End-User Level Grid Monitoring Using Geographic Information Systems (MAGGIS)

A Proof-of-Concept Tier-2 Analysis Center of Physics Grids for Enabling Large Hadron Collider (LHC) – Compact Muon Solenoid (CMS) Data-Intensive Science



- ◆ USCMS Grid testbed site
 - Provision of a Development Grid Testbed (DGT) resource for the USCMS Grid testbed
 - Currently building an Integration Grid Testbed (IGT)/Production Grid Testbed (PG) resource
- ◆ An iVDGL (international Virtual Data Grid Laboratory) member
- ◆ Contribution to developing and deploying a database system and a prototype VCR for slice test and test beam in 2004
- ◆ Participation in LCG-0 infrastructure deployment
- ◆ Collaboration with and outreach to other Midwest universities (as potential Tier-3 centers) such as **Iowa State University**, **University of Kansas**, and **University of Nebraska**
- ◆ Education through QuarkNet



GIScience Grid Portal

GROUP MEMBERS:

- ❖ Research Scientists and Engineers:
 - Boyd M. Knosp¹, Jun Ni¹, Frederick M. Noth¹, **Shaowen Wang¹ (GROW Lead)**
- ❖ Graduate Students:
 - Ugur Akgun², Ahmet Sedat Ayan², Ransom Briggs¹, Tao He¹, Yan Liu¹, Jonathan Olson², Anand Padmanabhan¹, Yongxiang Zhang¹
- ❖ Affiliated Faculty:
 - Marc P. Armstrong³, Mary Kathryn Cowles⁴, Ramon Lawrence⁵, Ching-long Lin⁶, Yasar Onel², Alberto M. Segre⁵, Ge Wang⁷, Jun Yan⁴

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