GEMINI and GIMI Demonstrations

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University of Mass. – Amherst

Indiana University

University of Kentucky

Instrumentation and Measurement Tools

- ## Two GENI I&M Projects
  - Each based on a different set of measurement and orchestration tools
  - Each brings a set of supporting services to the table
  - Each started development on one set of aggregates (ORCA/ExoGENI vs. ProtoGENI/InstaGENI)
  - Both can now run on both sets of aggregates
  - Both push measurement results and metadata to iRODS
  - Both have integrated with the GENI Portal for authentication
  - Both have live graphing capability

- BLiPP Measurement collectors
  - Rich set of active and passive measurements
  - Extensible script/schema definition
- Services:
  - Unified Network Information Service (UNIS)
    - Topology and service information and measurement metadata
  - Measurement Stores
  - GENI Desktop
    - Configuration and visualization
    - Various operations on resources
- Quick and easy to…
  - Install and configure measurement collectors on your slice
  - Schedule active measurements
  - Access live graphs and data
  - Perform operations on one or many resources at once

- Based on OMF and OML
  - Existing set of OML-ified measurement tools
  - Easy to add support for other measurement tools
- Services:
  - OML server
  - Labwiki
    - Plan, Design, and Execute experiments using OEDL
    - Pluggable architecture if you would like to add support for other tools
- Quick and easy to…
  - Orchestrate both measurements and experiment tasks
  - Parameterize and repeat experiments
  - Run closed-loop experiments
  - Record notes and capture graphs from each run of your experiments

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- **GIMI**
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Questions?

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