

GEMINI and GIMI Demonstrations

GEC18 – October 28, 2013
University of Mass. – Amherst
NICTA
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 supporting data to iRODS
- Both have integrated with the GENI Portal for authentication
- Both have live graphing capability

GEMINI



- 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



- 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
 - Messaging 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





- Experimenter Drop-in Session
 - Today 3:30pm (9.007)
- Experimenter Tutoring
 - Tomorrow 1pm (LC400)
- Mailing lists
 - geni-gemini-users@googlegroups.com
 - geni-gimi-users@googlegroups.com



Demonstrations



- Jim Griffioen, Hussamuddin Nasir, and Kevin Andrew
 - University of Kentucky
- Frank Diaz
 - Indiana University



- Mike Zink, Cong Wang
 - University of Mass. Amherst
- Thierry Rakotoarivelo,
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