

Cornell 1st quarter '07

The beginning of Q1, '07 saw the initial implementation of a prototype Gratia probe to capture dCache billing data and register it with Gratia, meeting the 1/15/07 milestone. The remainder of the quarter focused on prototype testing – feedback – code fix loops involving the probe, Gratia and dCache. Several bugs and enhancements of the dCache billing code needed for reliably, efficient probe reporting were revealed and reported (2nd deliverable). The reported bugs have been addressed. Testing also revealed reliability problems when Gratia dropped connections. With fixes to Gratia at FNAL and a behaviour change to the probe, the problem was solved. The probe can now successfully deliver all UCSD records to Gratia. An updated probe was submitted at the end of Q1.

The success of integration of the billing data capture project with Gratia (and, of course, the success of Gratia itself) has both accelerated this project and caused several milestones to be transferred to the FNAL Gratia project. We have a probe ready for production, in advance of the 7/1/07 milestone. The transfer metric specification has transferred to the Gratia project (2/28/07 and 5/1/07 milestones). Gratia will aggregate the billing data at FNAL, eliminating the need for the deployment of a billing database at Cornell (9/30/07 milestone).

In consultation with Pordes and Würthwein, several potential projects have been identified:

- local site aggregation of dCache billing information
- Gratia probe to map from batch job id to DN&Role from the GRAM auditing system to allow accounting per person (requires some update to GRAM auditing first)
- GridFTP transfer accounting

At the end of Q1, Greg Sharp began work both on local site aggregation and on set up of the OSG VDT on a local test farm, using Sun Grid Engine as the globus job manager, to have a local non-production site for prototype testing.