DC1 Data Server

Current Implementation

- Hardcoded list of directories and names
- Hardcoded list of data types to give users
  - MC,DIGI, RECON
  - Fits, Root

Current Implementation Cont.

- Server backend running on glast01
- Web frontend receives queries from user
- Connects to glast01 (port 31337?)
- Glast01 performs pruning, saves new files on ftp space and notifies user via email

Current Implementation Cont.

- Pruning done by root macros written by others
- Server retrieves list of files and passes them with the query to these root macros

Pro/Con

- Pro:
  - Finished in time for DC1
- Con:
  - Everything is hardcoded
  - Lots of errors
  - Takes a long time to run
  - Adding datasets requires modifying code

Improvements

- Meant as temporary stopgap
- Best to spend time making ROOT macros more robust
- Turn Server into a database driven program
  - Move current hardcoded data information into DB
  - Web queries result in new DB entries

Improvements Cont.

- Remove need for server running on a port

- Cron job queries database for new tasks

- Submit jobs to LSF instead of running locally on glast01