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