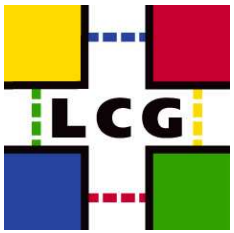
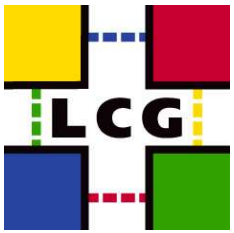


LCG-1 Goals

Ian Bird

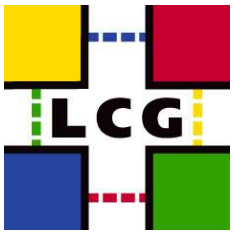
GDB – Phone conference

21/10/2002



LCG-1 Goals

- Production service for Data Challenges in 2H03 & 2004
  - Focused on batch production work
- Experience in close collaboration between the Regional Centres
  - Should have wide enough participation to understand the issues, but not too many initially
- Learn how to maintain and operate a global grid
- Focus on a production-quality service and all that implies
  - Robustness, fault-tolerance, predictability, and supportability take precedence over functionality
  - This requires:
    - a middleware support group with integration, certification, testing, packaging etc. responsibilities
    - A support structure
- LCG should be integrated into the sites' physics computing services – should not be something apart
  - This requires coordination between participating sites in:
    - Policies and collaborative agreements
    - Resource planning and scheduling
    - Operations
    - Support



LCG-1 Timescale in a nutshell

- LCG-1 must be defined – end 2002
  - 2 major areas to be addressed by Experiments, Applications, GTA, Regional Centres & GDB TWG's:
    - Define LCG-1 in terms of required functionality and services
      - Deployment schedule
    - Set up distributed organisational structure
      - Resources and scheduling,
      - Policies – security, authentication, etc.
      - Operational agreements and responsibilities
      - Support services
  - End October : 1st internal draft of Project plan and milestones
  - End November: Level 1 and 2 milestones in a quantifiable form
- LCG-1 service must be in place – July 2003
  - 6 months testing, integration, certification, packaging and deployment
- Need to demonstrate performance – end 2003
  - This should include adding current production services into LCG
- Provide production service for data challenges in 2004

What might LCG-1 look like?

- User's perspective: - requires
  - Functionality adequate to provide advantage over not using distributed model
  - Simple to use –
    - Advice on how to use the system
    - Help with problems
    - Failures should be understandable
  - Ability to determine status of jobs and data
- Sites' perspective:
  - Integrated into computer centre/IT (inc. security) infrastructures
  - Able to support service
  - Able to allocate and manage resources
- Overall service perspective:
  - Performance and problem monitoring
  - Accounting
  - Etc.