CHEP 06

Monday 13 February 2006 - Friday 17 February 2006

Tata Institute of Fundamental Research

Scientific Programme

Online Computing

CPU farms for high-level triggering;
Farm configuration and run control; Describing and managing configuration data and conditions databases;
Online software frameworks and tools

Event processing applications

Event simulation and reconstruction;
Physics analysis;
Event visualisation and data presentation; Toolkits for simulation and analysis;
Event data models;
Detector geometry models;
Specialised algorithms for event processing

Software Components and Libraries

Persistency;
Interactivity;
Foundation and utility libraries; Mathematical libraries;
Component models;
Object dictionaries;
Scripting;
Graphics;
Use of 3rd party software components (open source and commercial)

Software Tools and Information Systems

Programming techniques and tools;
Software testing;
Configuration management;
Software build, release and distribution tools;
Quality assurance;
Documentation

Computing Facilities and Networking

Global network status and outlook;
Advanced technologies and their use in applications;
HENP networks and their relation to future grid systems;
The digital divide and issues of access, readiness and cost;
Collaborative systems, progress in technologies and applications

Grid middleware and e-Infrastructure operation

Integral systems (cpu/storage) and their operation and management;
Functionality and operation of regional centres;
Global usage and management of resources; Grid infrastructure and its exploitation in distributed computing models.

Distributed Event production and processing

Development of the distributed computing models of experiments;
Real experience in prototypes and production systems;
Emphasis on the early days of LHC running.

Distributed Data Analysis

Large distributed data-base over wide area network;
Low-latency interactive analysis over wide area network;
Collaborative tools for supporting distributed analysis;
Remote access to and control of data acquisition systems and experiment facilities.

Plenary

Invited plenary talks