CHEP 07

Sunday, September 2, 2007 - Sunday, September 9, 2007

Victoria, Canada

Scientific Program

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; online calibration procedures.

Event Processing

Event simulation and reconstruction; Physics analysis; Event visualization and data presentation; Toolkits for simulation and analysis; Event data models; Specialized algorithms for event processing

Software components, tools and databases

Programming techniques and tools; Software testing; Configuration management; Software build, release and distribution tools; Quality assurance; Documentation; Foundation and utility libraries; Mathematical libraries; Detector geometry models; component models; Object dictionaries; Scripting; Graphics.

Computer facilities, production grids and networking

Grid operations, monitoring and user support; management and operation of grid-wide services; Experience with opera-tional grids; Technology evolution; Global network status and outlook; Networks and their relation to grid systems; The digital divide and issues of access, readiness and cost.

Grid middleware and tools

Grid software and monitoring tools; Global usage and management of resources; Grid technology and its exploitation in distributed computing models; Grid middleware interoperability; Grid middleware reliability; Data challenges; Evolution and perspective of Grid middleware; Experiment specific middleware applications.

Distributed data analysis and information management

Development of the distributed computing models of experiments; Real experience in prototypes and production systems; Interactive analysis over wide area network; Mobile computing; Tools for supporting distributed analysis; Remote access to and control of data acquisition systems and experiment facilities.

Collaborative initiatives with other sciences

Areas of mutual collaboration in computing between HEP and other disciplines; Shared computing facilities and grids.

Collaborative tools

Collaborative systems, progress in technologies and applications; Advanced videoconferencing systems; Experience in the usage of vide-conferencing tools.

Plenary

Invited plenary talks