CHEP 2009

Saturday 21 March 2009 - Friday 27 March 2009

Prague

Conference 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; Online calibration procedures; Remote access to and control of data acquisition systems and experiment facilities.

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.

Hardware and Computing Fabrics

Basic hardware, multicore and multiple CPUs, benchmarks and real experience; Fabrics virtualization; Fabrics management and administration; Local/site I/O, access to data, MSS systems.

Grid Middleware and Networking Technologies

Grid middleware, both experiment specific and generic; Perspectives in middleware development; Middleware reliability and interoperability; Grid middleware configuration, testing, and management tools; Grid monitoring tools; Networks and their relation to grid systems; Grid and WAN data access and transfer; Grid fabrics, its operation and monitoring; Resource management and accounting; Developers and Grid operators experience and issues from Compute and Data Challenges, and real data run.

Distributed Processing and Analysis

Distributed application experience; Distributed data processing; Distributed analysis; Experience and issues with real production; Solutions for coping with a heterogeneous environment. Virtualization; Mobile computing; Monitoring of user jobs and data; Interactive analysis over wide area network.

Collaborative Tools

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

Plenary

Commercial