

Status of Hoffmann Review of LHC computing

Overall Steering Group

- **Members:**
 - S. Bethke Chair
 - H.F. Hoffmann CERN Director resp. for Sc. Computing
 - D. Jacobs Secretary
 - M. Calvetti Chair of the Mgmt and Resources Panel
 - M. Kasemann Chair of the Software Project Panel
 - D. Linglin Chair of the Computing Model Panel

- **In Attendance:**

	Representative	(Alternate)
• IT Division	M. Delfino	(L. Robertson)
• ALICE	F. Carminati	(K. Safarik)
• ATLAS	N. McCubbin	(G. Poulard)
• CMS	M. Pimia	(H. Newman)
• LHCb	J. Harvey	(M. Cattaneo)

- **Observers:**
 - R. Cashmore CERN Director for collider programmes
 - J. Engelen LHCC chairman

LHCb Representation

- Steering Group (J Harvey, M Cattaneo)
- Software Project Panel (P Mato, O Callot)
- World-wide Computing Model Panel (F Harris, M Schmelling)
- Management and Resources Panel (J Harvey, J P Dufey)

Software Project Panel -first questions and answers

- 4 sets of detailed questions for each experiment
 - Process, Planning, Training and Milestones (Project Plan, Resources.....)
 - Architecture, Data Model and program infrastructure (GAUDI etc...)
 - Simulation and Physics (GEANT4 migration, geometry spec, generators, comp/physics...)
 - Non-experiment-specific software (what we expect from others..IT,commerce, etc.)
- 1 hour on each of above on March 15 (I.e. 4 hours of LHCb presentations)
- IT on March 14 will present on
 - LHC++
 - GEANT4
 - databases/event storage

Overall planning for Software Panel (good example for the other panels!)

- Mar 13-17 Presentations by expts and IT
- Mar 27 First internal rough draft + follow up questions
- April 17 All experiment responses complete
- May 8 Draft report complete - circulate to experiments
- May 18 Deadline for correction and clarification
- May 31 Final report given to Steering Group

World Wide Panel - draft questions (Schedule for reply - a half-day in period Mar 21-23.)

- LHCb model with respect to MONARC models?
- Our first thinking re regional centres distribution
- Requirements at centres for storage and processing from now to 2005+
- ? Magnetic Tapes vs. Disks (what is our thinking)
- LHCb and GRID activities
- ? Mock data challenges and test-beds
- Resource planning from now till 2005
- Expt plans vs. plans in countries - check consistency!

Management and Resources Panel - Status

- Met once on Feb 16 (JH,FH,JPD attended)
- Agreed big overlap with World Wide Panel - must estimate resources and management for experiment computing
- Mar 24 -Baseline computing plan based on existing h/w!
- Apr 14 - Software planning (distribution of responsibilities)
- As for software panel - aim to complete end May

Summary of LHCb status re review

Computer Model, Resources and Management

- Have started on updating our [data flow model](#) and creating [spreadsheets](#) for requirements (J Harvey, F Harris, G Corti)
- Getting [regional planning from country representatives](#)
 - [Brazil](#) P Colrain(CERN)
 - [CERN](#) J Harvey(CERN)
 - [France](#) A Tsaregorodtsev(Marseille)
 - [Germany](#) M Schmelling(MPI Heid)
 - [Italy](#) D Galli(Bologna)
 - [Holland](#) M Merk(NIKHEF)
 - [Poland](#) M Witek(Cracow)
 - [Russia](#) I Belyaev(ITEP)
 - [Spain](#) J Saborido(Santiago)
 - [Switzerland](#) P Bartalini(Lausanne)
 - [UK](#) A Halley(Glasgow) T Bowcock will also act on WG (MC Farm)
- [Working meeting](#) Friday 25 Feb 1400 304-1-001A

Software Project

- Pere and Olivier to generate a document answering questions (those that are answerable..)

Draft Agenda for WG meeting Friday 25 Feb,1400,304-1-001A

- Review questions regarding computing model and resources (first discussion on our answers)
- Information on [GRID EU proposal](#)
- [Update on UK status](#) for LHC computing planning
- [Update on other LHCb countries](#) (Germany,France, Italy,.....)
- [Summary of work needed by WG](#) for the review