

Impression

- US-ATLAS brings a strong group to the experiment. It is addressing important issues and devising appropriate solutions. They have been very successful at collaborating with other software efforts to develop pieces they need.
- US-ATLAS is not the problem
- It is imbedded in a difficult international managerial environment.
 - Progress has been hampered by indecision in Int'l ATLAS
 - 'NO' is not used enough
 - It is likely to continue and put deliverables at risk.

Scope

- Architecture
 - Chief Architect
 - Implementing framework
 - ADL
 - 2.75 FTE
- Detector geometry
 - Generic description
 - 1.5 FTE
- Event Data Model
 - Reqs document and design
 - 1 FTE
- DB management
 - DB Manager
 - Persistency evaluation
 - DB architectural design
 - common infrastructure for event databases
 - event collections
 - support for control framework
 - 4.5 FTE

Core Findings

- Int'l ATLAS Management's indecision is adversely affecting US-ATLAS.
 - GOOFY
 - Continuing to support Objy & Root persistency in still-evolving DC0 products, eg ATLFAST
 - Both these issues are seen to have conclusions, but are indicative of the problem and caused considerable angst
- The incomplete transition to ATHENA puts the DC schedule at risk.

Findings 2

- Should be commended
 - for collaborating with LHCb on Gaudi/ATHENA
 - Using CMT as an existing HEP tool
 - Feeding HepMC back to CLHEP
 - Getting ATHENA adopted
 - Transient/Persistency interface
 - Prototype G4 interface
- Strong & qualified group suited to the tasks the group has taken on.
- **US ATLAS' core efforts are coherent, important and visible**
 - Architecture
 - Detector description
 - Event Data Model
 - DB management
 - Doc & platform support
- **Core group commands important positions**
 - Chief Architect
 - DB Manager
- **We have no findings on GRID efforts.**
 - There really wasn't time in our review to address them.
 - There should be an explicit GRID section at the next review.

Findings 3

- DB group is instrumental in the evaluation of the common hybrid ROOT scheme
 - Excellent progress in growing from 1 FTE starting '01 to 4.5 now and taking on these tasks.
- We were shown US Subsystem effort. It is level-of effort and not directly coupled to the core work.
- Architecture design has some risk due to loss of Ed Frank
 - Work needs to be done on ~6 months timescale
- There are concerns about the level of pan-galactic ATLAS DC1 manpower reserved to run it
 - DB group fears it will draw the short straw
- The ATHENA/G4 interface is not in the ATLAS repository. Aaargh!!

Recommendations

- US ATLAS will continue to be dinged for fire-fighting help
 - Goes with having the Chief Architect
 - ATLAS Intl needs to provide Dave Quarrie with resources and authority to fulfill that role.
- ATLAS Intl management must learn to make decisions AND to enforce them in the collaboration.
- Until these issues are resolved, continue to fight fires for the common good.
- Be less willing to take up additional workload purely driven by the collaborations non-compliance with already taken software decisions
- ATLAS Intl should provide a concrete staffing plan for DC1.