

Core Software

- The good news
 - Can routinely process 1M event samples 5 yrs ahead of time
 - 200 reportedly happy users
 - Already using IGUANA to debug reconstruction
 - Paying attention to GRID integration
 - Including CMS requirements document
 - US Core effort appears to be well managed
 - US is well positioned in the CMS software hierarchy
- Coming soon
 - Positioned to support DAQ TDR in '02
 - Computing TDR in '03

Core Scope

- Effort roughly divided 50/50 between US-CMS initiatives and contributions to CMS
- 9 FTE total
- US
 - IGUANA
 - DDMP Production scripts
- Global
 - Software architecture and framework
 - DDMP
 - DDD
 - Emergency SCRAM bailout
 - support

Findings - 1

- IGUANA is behind schedule
 - due to delays in hiring in '01.
 - Hire is imminent
 - Effort diverted due to emergency SCRAM support
 - Aiming for June '02 ability to visualize new DDD geometry
- Production scripts are operational now for distributed production
 - Handle OSCAR in 3/02
 - Migrating bash scripts to Python

Findings - 2

- Want & need to improve persistency layer
 - planning for 1 FTE in '02 to address this
- LHC common projects
 - We see almost none!
 - SCRAM, DDD, Ignominy,
- Half of the core effort is devoted to common CMS projects
 - We endorse this as essential to the overall good of the project
 - We deem the effort is being devoted to important areas
- GRID efforts may or may not converge. Don't know what effect will be on CMS. Could not be evaluated in this review.

Recommendations

- We endorse the use of 1 FTE for persistency & architecture upgrades
 - Will permit easier change of persistency layer
 - Very important to get this interface “right”
 - Could impact Grid implementation
- A reminder to all parties to encourage Common LHC Software Projects!
- Need strong US representation in various LHC GRID efforts
- Need specific GRID category in next review