Software Workshop Introduction

- Introducing new people
- Logistics
- Since January
- Timelines
- TestBeam Analysis
- Working groups for the meeting and charges
  - Tracking
  - Science Analysis
  - Analysis tools
  - Code Management
  - GAUDI
  - GEANT4
Logistics

- Tuesday plenaries to be held in Training Center
- Wednesday plenary to be held in SLD Collider Hall (need to get through gate!)
- we have reserved a few small meeting rooms during working sessions
- Tell Terry Schalk if you plan to join us for group dinner at Hunan Garden on Tuesday evening
tas@slac.stanford.edu
- DHCP will work in all meeting rooms (and offices, of course)
Since January

- Lots of effort gone into test beam analysis
  - work has resumed on developing, validating MC, recon
  - use of Root for event I/O is working out
  - people can work with IDL or Root
  - first crack at constants handling
  - reports from Jose, Eric & testbeam results

- Code Architecture
  - GAUDI testbed in progress
  - work underway to implement Traudl’s hits/digi separation
  - first crack at raw data class definition
  - getting experience with Root I/O
Since January (cont’d)

- **GEANT4**
  - prototype underway at Udine

- **Code/Rel Management**
  - did not progress as expected
  - NT not supported yet
  - no code management plan

- **Document Management**
  - evaluated three candidates
  - all web based
  - one from NASA/Ames, 2 commercial
    - Hummingbird’s PCDOCS
    - Kronodoc (CERN inspired)

- **Ground Systems Reqs**
  - committee chaired by Steve Tompkins
  - accepted IOC essentially as proposed in AO Response
Sample G4 Event from Udine

Riccardo Giannitrapani
GLAST

Ground Station

IOC

PACOR in box

Proc Server

RDB

Recon

Calibrations

Event DB

Event DB

HSM

MOC

WWW - code, algorithms

HEASARC

SOC

Level 0

Level 1

Level 2

Data store

Access to Data

PI Teams

Guest Obs

Access to Data

IOC

SOC
Identified Ground Systems Issues

- How to deal with proprietary data
- Division of software development for science products between IOC and SOC
- How does the SOC use IOC tools?
- How the mirrored database between the IOC and SOC will work
Timeline - 18 month frame

now

System Reqs Review

2000

TestBeam Done

José to Spain

Balloon MDC

Balloon flight

2001

SOC out to bid?

Proto IOC
Timeline - 6 month frame

- Now
- June: Gen MC to Root
- July: TBRecon to Root
- August: TKR Recon reorg-ed
- September: TestBeam Done
- October: José to Spain
- November: Infrastructure mods done; on to Balloon prep
Working Groups for this Meeting

• Tracking
  – José, Toby, Steve, Tracy
  – reorganization of TKR recon code (based on TBRECON?)
  – documentation
  – preparation for José leaving for Spain in the fall

• Calorimeter
  – Eric
  – documentation
  – plans for upcoming upgrades
Working Groups (cont’d)

• Analysis Tools
  – Heather
  – IDL support
  – Root support
  – how to support two analysis platforms!

• Science Analysis
  – Jay, Seth (in spirit)
  – calibration needs
  – tools needed for science analysis
  – when needed
  – how much effort required
Working Groups (cont’d)

- **Code Management**
  - Paul, Toby
  - agree on requirements for code management (start from ATLAS reqs doc?)
  - workplan on tools to support code management
  - will convene on Thursday

- **Code Upgrades**
  - Toby, Traudl, Heather
  - workplan for migration to GAUDI
  - how it connects to G4
  - how to integrate the various groups working on G4 into coherent effort