E93-026: Gen01

Collaboration Meeting

Analysis

Frank R. Wesselmann

University of Virginia

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Analysis Issues

* Code Creation & Updating

  analyzer engine

  calibration code, asymmetry code

  slide show, single-event display

* Run-time Environment

  system environment

  parameter files

  calibration constants

* Maintenance & Monitoring

  code maintenance

  calibration updates

  systems & experiment monitoring

Status – Code

- √ update code for new `nDet` geometry
  removed most geometry assumptions from code
- √ clean up existing code
  redundant & unused calculations
- √ `nDet` timing calibration codes
  updated & documented
- √ gain calibration code
  may require minor tweaking on 1st use
- √ scripts for asymmetry calculation
  updated & documented
- ○ create pristine starting setup
  requires installation information
- ○ update `SEM` code
- ⇒ update single event display

Status – Run-Time Setup

- ∘ update `nDet` geometry file
  includes formerly hard-coded parameters
- ∘ create map file for `nDet`
  requires installation information
- ∘ update scaler & replay report templates
  requires installation information
- ∘ define standard histogram, Ntuple file(s)
- ⇒ install replay on `CDAQ` machine
  SUN or Linux PC ?
- ⇒ prepare slide show
  & set up statistical analysis
  requires histogram definitions

Maintenance & Monitoring

- maintain analyzer (code)

  Frank W.
- run online replay, slide show

  shift crew, every run (20k events)
- run scaler replay

  shift crew, every run, maybe CRON job
- update calibrations
  (`SEM` & `nDet` timing, walk, gain)

  run coordinator, frequency as needed

  `HMS` *managed by Hampton U.*

Group Disk Space

- on Jlab CUE systems: /group/e93026
  or /u/group/e93026
- accessible to members of group c-e93026
  "owned" by frw
- backed up up by Jlab CC
- relatively small size (currently 1 GB)
- organized by content, not user:
  - → "official" **`Gen01`** web page
    `http://hallcweb.jlab.org/gen01`
    link 2B added on main Jlab Hall C web site
  - → reference setup of our customized analyzer engine
  - → offline analysis log book