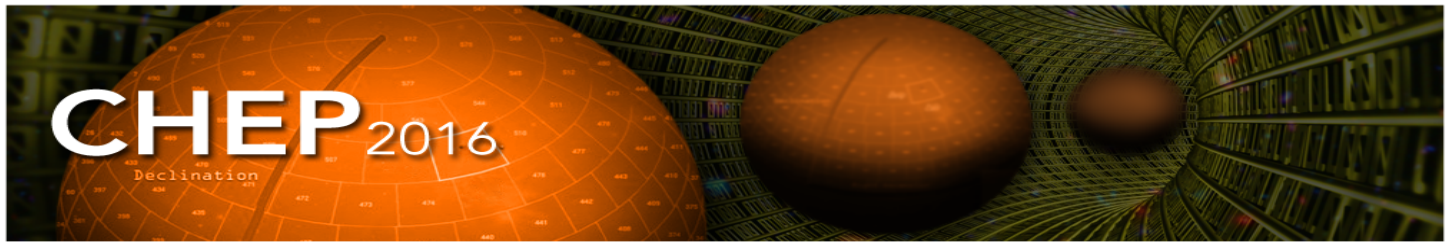
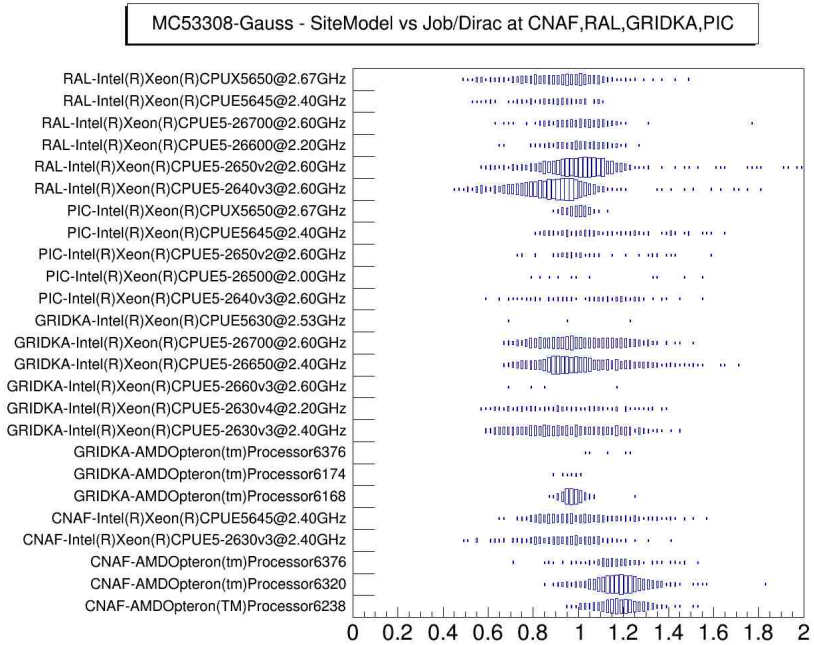


22nd International Conference on Computing in High Energy and Nuclear Physics, Hosted by SLAC and LBNL, Fall 2016

LHCb benchmarking highlights

Comparison between jobs and Dirac fast benchmark (DB16)

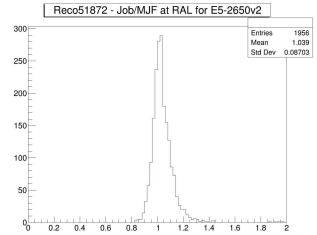
LHCb BENCHMARKING

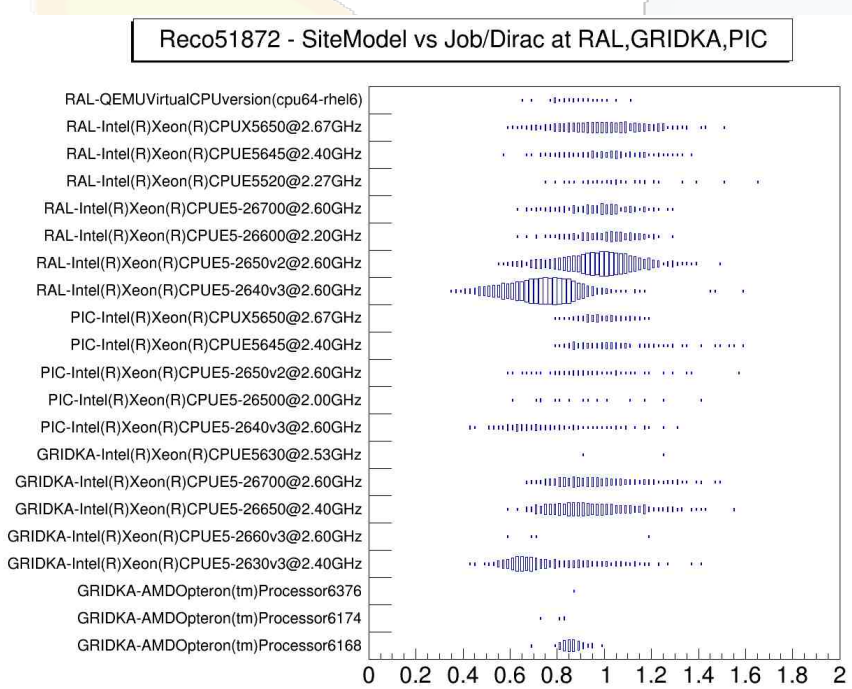


Simulation

- **DB16 (Dirac benchmarking)**
  - Reasonable estimate of CPU power
  - Some WN model dependency
  - For matching: requires a safety margin

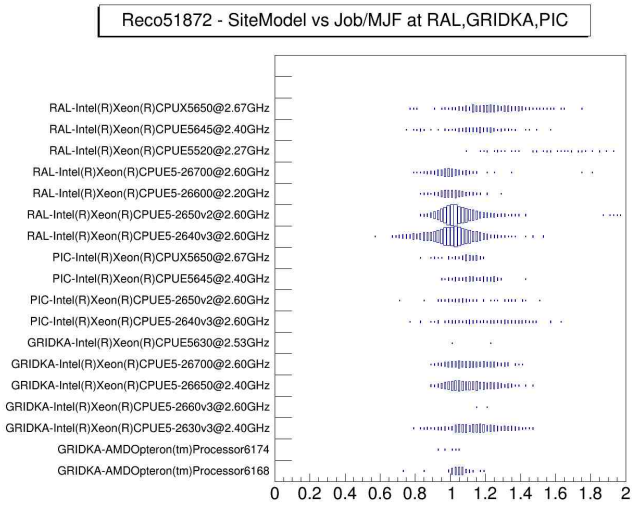
- **JobPower = k * (events / s)**
- **JobPower absolute normalisation:**
  - Set JobPower == MJFPower on CPUE5-2650v2@2.60GHz at RAL

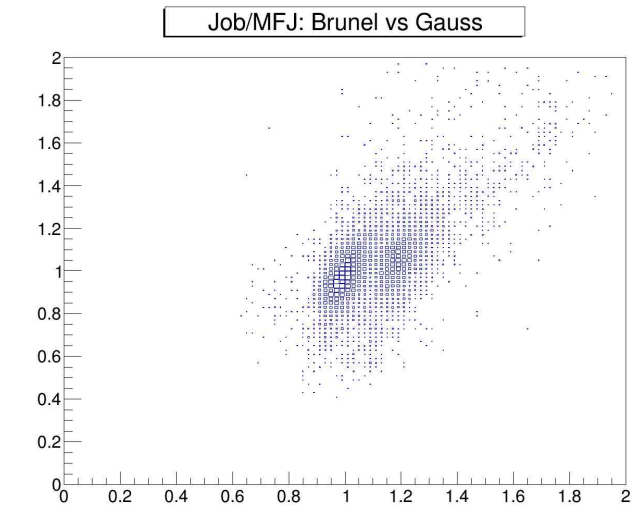




Reconstruction

Comparing Simulation and Reconstruction with HS06 (aka MJF)





- Little WN model dependency of Job/HS06 power ratio for Reconstruction
  - Very good scaling behavior
- Comparing within each job
  - No WN systematic effect
  - Shows the clear difference between Reconstruction and Simulation
  - Reconstruction scales much better with HS06than Simulation