

Some ideas for the evaluation exercises

ATLAS Software Workshop

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The problem domain (I)

- **What kinds of analysis are we considering?**
 - Real physics analysis (Higgs studies, B physics, etc) and
 - Test beam analyses

but also tasks arising from:

- Online monitoring
- Detector performance
- Alignment, calibration
- Simulation
- Reconstruction
- Other?

The problem domain (II)

- What are the specific requirements for each type of analysis (if any)?
- Can we extract "typical" scenarios that can serve as use cases? Should we attempt to cover the full spectrum?
- Where to start?
 - Detector and physics communities could provide a list of analysis topics and compile and answer a questionnaire (see next page) for each topic

Questionnaire for Physics Analysis Examples (I)

(from joint D0/CDF/CD Run II Data management Needs Assessment:

http://runiicomputing.fnal.gov/runiiweb/nag_2reports.html)

- What events do you look at
(data, support/calibration/background, simulation)?
- How do you select those events
- What processing steps are needed for event selection?
- What processing steps are needed for the event analysis
- How many times and how often do you access the events?
- Which pieces of each event are needed?

Questionnaire for Physics Analysis Examples (II)

- Is this questionnaire applicable to all types of analysis tasks?
- Are there any unasked questions?
Probably yes, e.g.
 - What kinds of tools/utilities/libraries/etc do you need for the event analysis? Histogrammers, minimisers and fitters, plotters etc...
 - Are there any "external" constraints? CPU, performance etc...