

Usage of Analysis Tools in examples

discussion

Current situation

➤ Basic principles

- No direct dependency on specific analysis tools
- No hard-coded solutions: use abstract interfaces for basic histogramming

➤ AIDA based interfaces

- JAS + JAIDA implementation
- OpenScientist implementation
- PI + Python implementation
 - Generation of AIDA/XML, hbook, root files

Current situation - 2

- No clear support and maintenance for most of the cited tools
 - Certainly true for PI
 - No longer under maintenance in LCG since 2004
 - No further porting on new platforms, nor bug fixes
- AIDA interfaces imported within the experiments software
- Difficulties for Geant4 developers and testers in building/running simple analysis jobs
 - Existing tools require too many dependencies on external software
 - NEED for a simple and working solution which possibly does not require changing the client code

Possible scenarios

- 1) Create built-in analysis module defining basic histogramming functions for usage in batch jobs (generation of xml/hbook/root files)
 - Requires importing the AIDA interfaces
 - Requires additional maintenance and support
- 2) Bind to a specific analysis tool
 - Requires modification of client code and examples
 - Forces users to a specific solution (and not all people would be happy ...)
 - Adds a new dependency