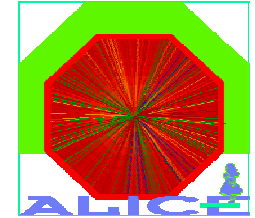


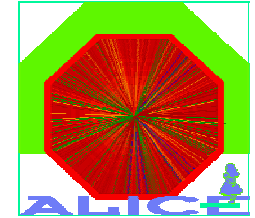
ALICE LCG AA Review Feedback

Fons Rademakers



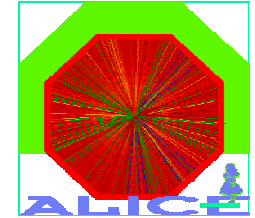
Executive Summary

- ALICE applauds the proposed merge of SEAL into ROOT and having one ROOT based core LCG AA infrastructure
- This is in line with what ALICE did propose 3 years ago in the annex of the LCG AA Blueprint
- ALICE is happy with the extra manpower assigned to ROOT development in line with its important role in providing the core LCG AA infrastructure
 - ALICE, as major and long time ROOT user, will continue providing significant manpower to the ROOT project



SPI

- ALICE does not use the SPI service and infrastructure
- Our software consists of only three packages: ROOT, AliRoot and AliEn
 - Install on all platforms is simply via `./configure;make`
 - AliRoot runs and is verified on Linux (any distribution and compiler) on i386, AMD64 and Itanium, MacOS X, Alpha TrueLinux, Sun Solaris and HP HP-UX
- We operate our own cvs, web, build and bug reporting servers to full satisfaction and with very low overhead

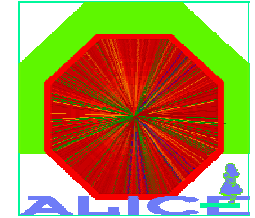


SEAL

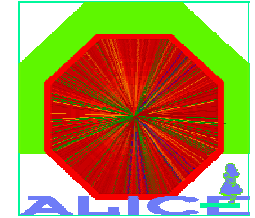
- ALICE never used SEAL and therefore there will be no issues with migration due to SEAL being merged into ROOT



ROOT

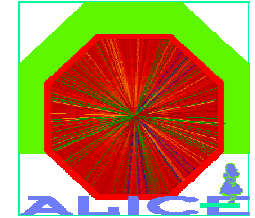


- The complete ALICE computing is based on ROOT
- ALICE uses all features offered by ROOT and the CINT interpreter (I/O, Base, Geo, GUI, PROOF, etc., etc.)
- ALICE requires complete backward compatibility between ROOT versions (which till now ROOT has always provided)
- ALICE requires ROOT to be available on all possible platforms (which till now ROOT always has been)
- ALICE plans to use heavily PROOF for its analysis
- ALICE will continue to provide important manpower to support the ROOT and PROOF development
- ALICE strongly urges ROOT to maintain its development model and provide a system useful for as wide a community as possible, the larger the community the better and versatile the product will be benefiting us all



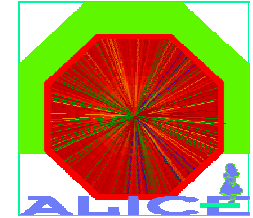
POOL

- ALICE does not use POOL
- ALICE does not plan to use ConDB
 - We had one requirement of no dependency on SEAL and POOL which was not honored

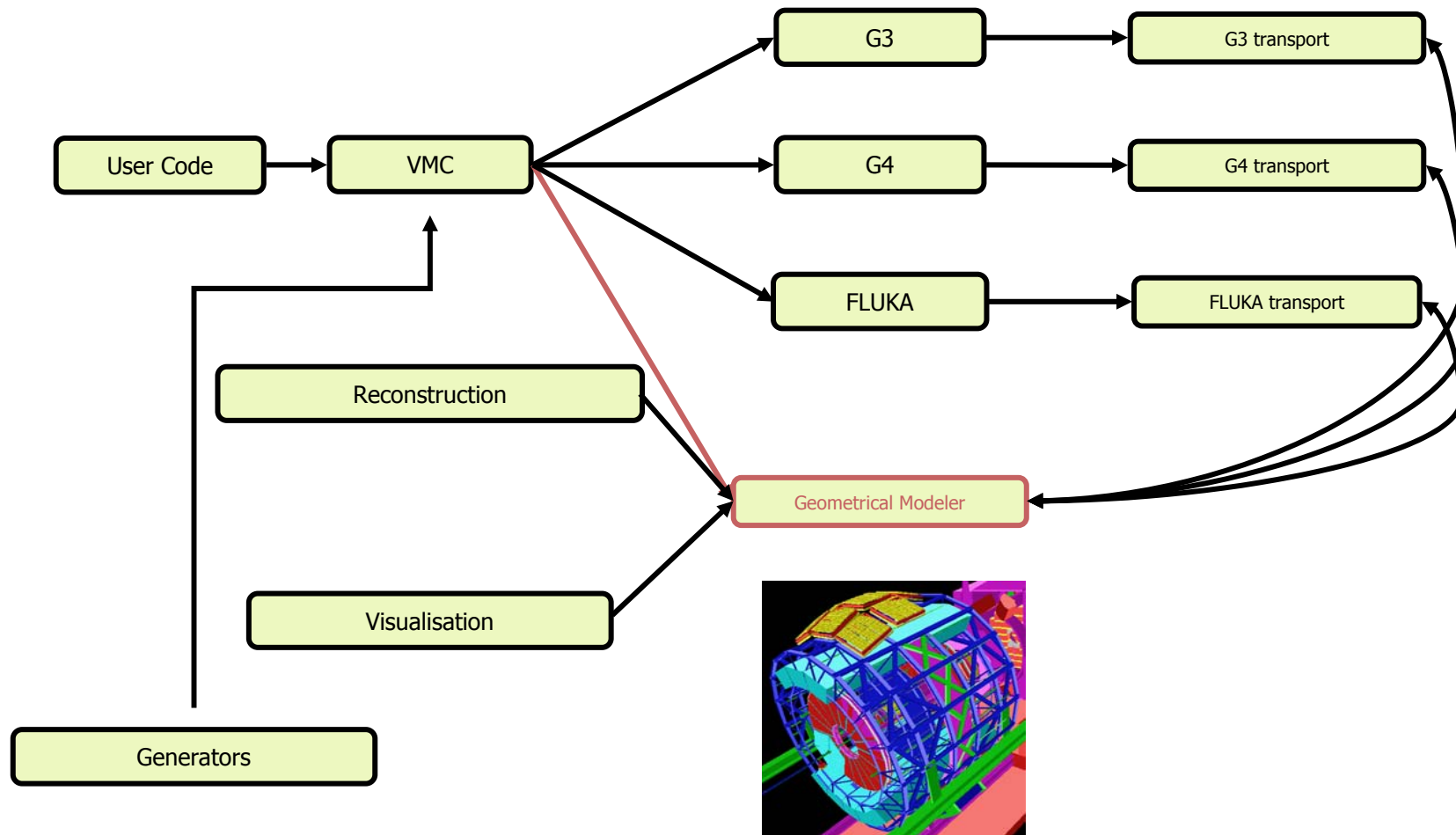


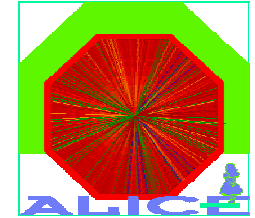
Simulation

- ALICE did propose the Virtual MC as solution to abstract the experiment MC code from the actual MC engine and to allow easy comparisons between MC's (G3, G4, FLUKA)
- We are sorry that the VMC was never followed up in spite of recommendations made in previous reviews
- ALICE continues the development of VirtualMC



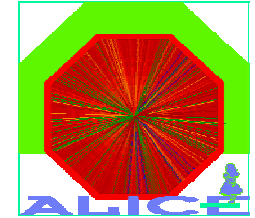
The Virtual MC





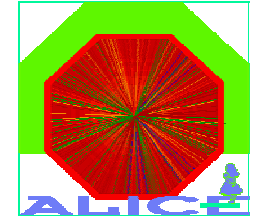
Simulation

- ALICE doesn't use GDML
 - Consistent use of algorithmic geometry definition based on ROOT TGeo geometry for simulation, reconstruction and event display
- ALICE has no use for GENSER
 - In particular for HIJING we maintain our own version and had to put substantial effort into debugging of the distributed version
- ALICE has interest in MCDB / shared event files, if readable via ROOT



FLUKA

- ALICE has developed TFluka, the Virtual MC implementation for FLUKA
- FLUKA will be our default transport engine and will be used for the next Physics Data Challenge
- No use for FLUGG, it never worked for the ALICE environment



Geant 4

- ALICE has doubts about the readiness of the hadronic part
- Interface with Geant 4 (Geant 4 VMC) implemented
- Interface using TGeo geometry designed and ready to be implemented when manpower available