

ACAT 2014

Round-table

Pros

- Would value a lot of manpower investment (design, experience, expertise) by increasing the user base
- Open-source:
 - HEP/basic research contribution to the public domain we benefit so much (linux)
 - May get contribution from non-HEP
 - Bring visibility to our field
- Incentive for more universal package that may become rewarding even for our applications
- Get inputs/ideas from non-HEP useful for HEP.
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Cons

- More man power to support non-HEP users, more detailed documentation, tutorials, workshops, ...
- Being more universal the package becomes more complex: to develop and to maintain

Examples:

- Geant 4 for bio-medical applications
- CCIN2P3 (Lyon Tiers 1) dedicates ~ 8-10% of the CPU power for Biology
- Get mathematician support for loop integration Parint...

Collaboration with Industry

- Very different
- Intellectual property
- More constraints, different goals:
 - Profitability
 - Decision making may be biased by commercial goals
- But this collaboration is also definitely needed
 - Hardware
 - Professional software development and large manpower

Proposal

- Create a database `a la Sourceforge` of potential package for cross-discipline usage
 - Minuit, Root, Geant4\V, MVA, Integration (Vegas, CUBA, parint,...)
- Dedicate a special session in ACAT 2016 on this topic