



LHCb & the HEP Software Foundation

HEP Software Foundation Workshop
SLAC Jan 20/21 2015

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LHCb point of view

- LHCb committed to sharing software (e.g. Gaudi, GaudiHive, DIRAC, EvtGen, LCG Application Area...) and willing to extend the effort

- Many interesting ideas in the HSF white papers!
 - Marco will present the application developer's vision

providing infrastructure and support for the projects is necessary. but not enough....

- From the Experiment Librarian side, one crucial point:

“HSF to Facilitate compatibility, interoperability and integration testing“

A HEP Software "distribution" ?

- We see value in working together on a **consistent** HEP Software distribution:

The **catalogue** effort already started is mandatory

Also need **unified tools** and **conventions** that allow users to easily check-out, build and distribute their own consistent stacks.

- Lightweight framework where users pick and choose their tools/versions



- *NOT one stack for all, of course*
- *We don't want to impose (too many) constraints on developers*

Not all projects have to be included (c.f. hosted/endorsed projects)
...we need solid metadata management

- We feel this would bring benefit for both users and developers:
 - Sharing of software becomes easier (better visibility, better integration)
 - Faster test/adoption of new tools

How to get started ?

- Start with existing tools:
e.g. A generalized/extended LCG Applications Area scripts?
 - Interesting starting point
 - But needs generalization...
- LHCb willing to help
 - by taking part of potential working groups
 - and by providing development effort
- Potential gradual approach:
 - HSF can start with just providing tools
 - services at a later stage
(e.g. providing builds etc)