Dependencies and HEP_OSlibs

- Ben: “not one stack for all, but need solid metadata management”
  - need dependencies of each project on other HSF projects and on O/S libraries
  - dependencies may include versions (e.g. “need ROOT, at least version 6.02”)

- HEP_OSlibs: O/S library dependencies for both build and run time
  - no versions in the dependencies so far, just a list of required packages
    - different dependencies in HEP_OSlibs versions for different O/S (SL5, SL6, CC7)
    - see https://twiki.cern.ch/twiki/bin/view/LCG/CentOS7DependencyRPM
  - one single “catch-all” for LHC experiments, no fine grained distinctions
  - *can HEP_OSlibs be useful in the context of HSF and packaging or not?*

Installation paths and policies

- How to allow several versions and/or compilers for one package?
  - i.e. how to go beyond a single installation in system paths?

- We have a well established mechanism for (some) LHC experiments
  - Modify LD_LIBRARY_PATH, point to parallel installations on /afs, /cvmfs, /opt
    - Keeping names unchanged for tools and libraries
  - Since 1-2 years also packaging and distributing packages as rpms
  - *Use this as a basis of HSF packaging too?*

- *Are there any "standard solutions" (as recommended by HSF) for this?*
  - python virtual environment – separate directories, unchanged tool names
  - RedHat software collections – add versions to tool names (e.g. python33)
  - ...?

Communication

- Need to publish information: expanding on catalogue on HSF page
  - Eventually need an rpm repository associated to that? e.g. for HEP_OSlibs?
- HSF mailing lists (eventually WG and meetings) specifically for packaging?
- Eventually move HEP_OSlibs twiki, mailing list, rpm repository to HSF?