

# Science Use Cases

- Distributing complex programs & frameworks
  - e.g. large project analysis suites
- Versioning analysis pipelines
- Running Databases
- Continuous Integration
- Cloud computing?

# Case Study:

- CosmoSIS project - cosmological parameter estimation
- Many dependencies, multi-language architecture
  - GCC, GSL, CFITSIO, FFTW, Lapack, Git, Python 2.7, Numpy, Scipy, Nose, PyYaml, Matplotlib, Emcee
- Large majority of issues associated with installation
  - Consistency very hard to maintain for manual installs