Juno Workload

Juno Data Processing Workflow

- Generator Simulation
- Detector Simulation
- Electronics Simulation
- Trigger Simulation
- Readout Simulation
- PMT Calib/Rec
- Vertex/Energy Reconstruction
- Track Reconstruction

JUNO Benchmark

- Workload from JUNO:
  - Generator + Detector Simulation 56%
  - Electronics Simulation 3.98%
  - Reconstructions(PMT Calib/Rec, Vertex/Energy Reconstruction, Track Reconstruction) 43%
- JUNO runs single core jobs for all workload
- No input data, but require CVMFS for juno software
- 100event with 1 thread take around 9 minutes

Integration with Benchmark Suite

- We have container for juno test jobs in /cvmfs
  - singularity shell -B /cvmfs:/cvmfs /cvmfs/juno.ihep.ac.cn/singularity/juno-centos7/
  - Run success in local worknode
  - Some of the modules can not be loaded in container without local storage
- Benchmark Suite was installed in test machine
  - Need instructions to integrate with benchmark suite.
  - Run multi jobs to fill all cores.