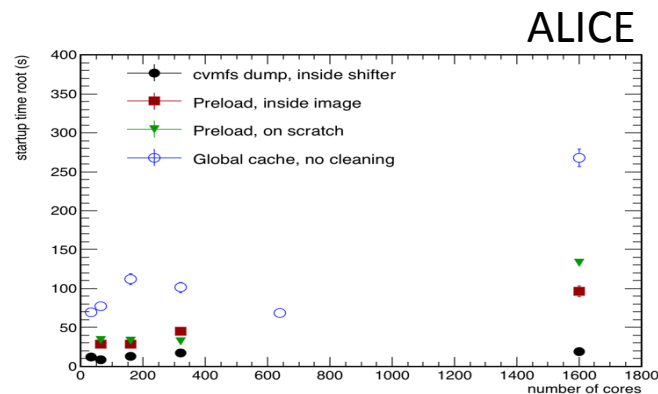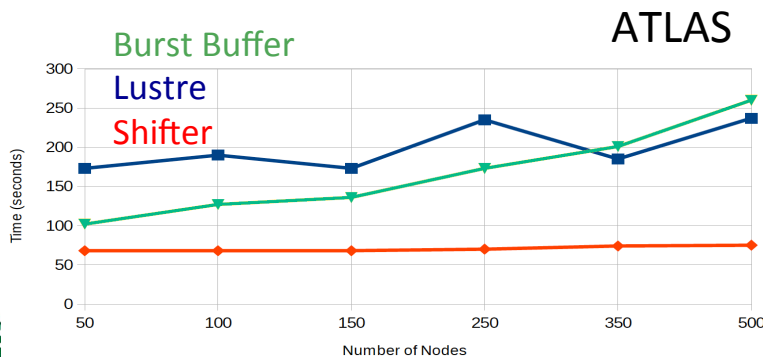# Shifter: Docker for HPC

- **NERSC has implemented Docker-like container technology through Shifter**
  - Supports Docker and other images (vmware, ext4, squashfs, etc.)
  - Hooks to tie into the batch system
  - Used successfully by several HEP groups

ATLAS

ALICE

Shifter Enables Science

- **A number of HEP and astronomy groups are already investigating Shifter at NERSC**
  - ATLAS, ALICE, STAR, CMS, LSST, LCLS, Dayabay
- **New framework and innovation are making scientific analysis easier at NERSC**
  - Custom environment for reproducible science
  - Super fast IO layer
  - Successful use across many scientific disciplines
  - Cray will make Shifter a mainstream capability for their systems
  - Framework can be extended to other HPC systems