

PDSF Site Report and Transition

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PDSF, the Parallel Distributed Systems Facility, was moved to Lawrence Berkeley National Lab from Oakland CA in 2016. The cluster has been in continuous operation since 1996 serving high energy physics research. The cluster is a tier-1 site for Star, a tier-2 site for Alice and a tier-3 site for Atlas.

The PDSF cluster is in transition this year, moving the batch system from UGE to SLURM and to delivering computing environments using Shifter, a NERSC software package for deploying docker-like containers. In the near two years, the Linux cluster hosting PDSF will be retired and its workloads will be moved to a Cray XC-40 system. This site report will describe recent updates to the system, upcoming transitions, and the future of High Energy Physics workloads at NERSC.

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