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A Tier2 Center at the University of Florida JORGE LUIS RODRIGUEZ, PAUL AVERY, DIMITRI BOURILKOV, RICHARD CAVANAUGH, YU FU, BOCKJOO KIM, CRAIG PRESCOTT, University of Florida — The High Energy Physics (HEP) Group at the University of Florida is involved in a variety of projects ranging from HEP Experiments at hadron and electron positron colliders to cutting edge computer science experiments focused on grid computing. In support of these activities the Florida group have developed and deployed a computational facility consisting of several service nodes, compute clusters and disk storage devices. The resources contribute collectively or individually to production and development activities for the CMS experiment at the Large Hadron Collider (LHC), Monte Carlo production for the CDF experiment at Fermi Lab, the CLEO experiment, and research on grid computing for the GriPhyN, iVDGL and UltraLight projects. The collection of servers, clusters and storage devices is managed as a single facility using the ROCKS cluster management system. Operating the facility as a single centrally managed system enhances our ability to relocate and reconfigure the resources as necessary in support of our research and production activities. In this paper we describe the architecture, including details on our local implementation of the ROCKS systems and how this simplifies the maintenance and administration of the facility.

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