



Contribution ID: 392

Type: **Poster presentation**

CernVM-FS - Beyond LHC Computing

Monday, October 14, 2013 3:00 PM (45 minutes)

In the last three years the CernVM Filesystem (CernVM-FS) has transformed the distribution of experiment software to WLCG grid sites. CernVM-FS removes the need for local installations jobs and performant network filesystems at sites, in addition it often improves performance at the same time. Furthermore the use of CernVM-FS standardizes the computing environment across the grid and removes the need for software tagging at sites.

Now established and proven to work at scale, CernVM-FS is beginning to perform a similar role for non-LHC computing.

We discuss the deployment of a Stratum 0 'master' CernVM-FS repository at the RAL Tier 1 and the development of a network of Stratum 1 replicas somewhat modeled upon the infrastructure developed to support WLCG computing.

We include a case study of one small non-LHC virtual organisation, describing their use of the CernVM-FS Stratum 0 service. We examine the impact of using CernVM-FS upon their ability to utilize a wider range of resources across the UK GridPP network.

Primary author: COLLIER, Ian Peter (STFC - Science & Technology Facilities Council (GB))

Co-author: CONDURACHE, Catalin (STFC - Science & Technology Facilities Council (GB))

Presenter: COLLIER, Ian Peter (STFC - Science & Technology Facilities Council (GB))

Session Classification: Poster presentations

Track Classification: Distributed Processing and Data Handling A: Infrastructure, Sites, and Virtualization