Plans for integrating GPUs into WLCG

Artur Gottmann | March 8, 2022

- Main goal: integrate GPU resources from different computing centers into WLCG to study performance of typical HEP applications
  → A prototype project, which may go also to a publication
- Typical HEP applications for single-GPU or multi-GPU/Single-node:
  - Parts of regular CMS production jobs, which might go to single GPU: tracking, HGCal reconstruction, etc.
    → Currently not established in standard workflows yet
  - User jobs in the area of machine learning
- Planing for a collaboration between HZDR, ZIH, and KIT for that purpose
- Deployment via COBalD/TARDIS → expertise present at KIT
- Planing also visits at Dresden and at Karlsruhe to exchange knowledge and experience