ATLAS Distributed Computing Experience and Performance During the LHC Run-2

Andrej Filipčič on behalf of the ATLAS Collaboration

N.b.: this talk will focus on an ATLAS Distributed Computing overview, for more details check the 40+ other contributions from the ADC community

Highlights

- ATLAS production and data management system redesigned to cope with the new computing model
  - LHC is performing really well:
  - 50% more data delivered than expected
- WORLD cloud
  - MONARC model is gone
  - Every stable site can store primary data (nucleus)
  - Every site well connected to nucleus can process data (satellite)
- Big efforts to evolve and partially redesign the production system
  - Production and data management system is robust, performant and much lighter operationally than the system used during Run-1
  - Can easily cope with higher Run-2 LHC performance than expected
- Real data analysis inputs:
  - Available ~1 week after data taking