DESY CMS Computing and Offline

Preparation for October PRC

Maria Aldaya & Christoph Wissing
DESY CMS Meeting
September 27th, 2010

October 2010 PRC: DESY Computing

> HEP Computing at DESY will have a dedicated presentation

- Covers Grid Center (NAF and Grid Computing)

- Make sure that CMS items are well covered

> CMS presentation

- CMSSW Deployment
  (made only to the backup last PRC)

- CMS Tier-2 activities that do not make it into the Computing presentation

"Grid Center Review" Task Force

> Aims

- Review DESY HEP computing in general

  > Focus on NAF and Grid activities (incl. Tier2s for ATLAS, CMS and LHCb)

- Review resource usage

- Estimate the resource requirements for the coming years

  > Suggest a funding profile (in a given budget, of course)

- Look at existing monitoring and reporting

  > Give input for improvements, suggest priorities

> Report expected by December 2010

Member	Representative of
Gerhard Brandt	ATLAS
Ulrich Husemann	ATLAS
Matthias Kasemann	CMS
Yves Kemp	IT
Kai Leffhalm	DV-Zeuthen
Hartmut Stadie	CMS
Christoph Wissing	IT

Information from analysis groups: questionnaire

- Input Data used for the analysis

  - > Primary data set (which one?)

  - > Central or group skim (which?)

  - > Secondary data set(s) (which?)

  - > Data Tier RECO/AOD

- "Intermediate analysis format"

  - > Type of analysis format (PAT? Own/group ROOT-tuple?)

  - > Storage location (dCache/Lustre/AFS/elsewhere)

  - > Typical event size

  - > Frequency of (re-creation) of analysis format

  - > Production flow:

    Produced in the Grid (preferred sites?)

    Done in the NAF

    Typical no. jobs/length of 1 job

- Monte Carlo

  - > Number of used MC events, which format

  - > Any private MC/Generator used (how much resources (CPU+disk) needed?)

Your feedback on the ongoing analysis, its resource requirements and some expectations on how those will develop with increasing luminosity is very important !

CRAB Server Operations at DESY

> CMS Computing management asked DESY-CMS group to provide a CRAB server

> We agreed to do it

  - Well recognized contribution

  - Fits into our pretension of being a leading CMS Tier-2

> Agreed operations model

  - DESY CMS:
    Mainly infrastructure & monitoring

  - Central Analysis Operations:
    Running the service itself

> Optimal model

  - Local contributions to
    running of the service

> We report to PRC next time...