## **CMS Tier-0 Workflow**

# Monitoring

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## CMS Tier-0 Job Monitoring

- CMS collects large amounts of data from detectors
- Raw data from detectors needs to be repacked and reconstructed
- Requires a lot of memory and CPU
  - \* No current way of monitoring memory usage or CPU
  - Need this information to be easily accessible and readable

#### Building a CPU and memory monitoring system

Extract data from job reports

\* Display information on T0 Monitoring Site

- Decide how to present data
- \* Make site display information

## Data Extraction

- \* Automatically store memory and CPU information in job reports
- \* Extract data from job reports
  - \* Succeeded in storing information in Oracle database
  - \* Wrote query to retrieve information

## Data Presentation

- \* Decide how to present data
  - \* Short-term, for looking at single jobs
  - Long-term, for looking at trends
- Display information in real time on T0 monitoring site
  - Began altering related files to create tables and run queries to retrieve data
  - \* Working on getting website to update









## Travels

