



# **Toward the November Review “Core Applications Software”**

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# Summary of Current Tasks of CAS Engineers

## ◆ **Iosif Legrand, Caltech (Harvey Neuman)**

### ◆ **Distributed System Simulations (MONARC)**

- *Primary author*
- *Simulation of March ORCA Production*
- *Simulation of tape usage in HEP*
- *Load Distribution Studies*

### ◆ **Distributed Data Analysis Tools**

- *Resource Monitoring*

## ◆ **Vladimir Litvin, Caltech (Harvey Neuman)**

### ◆ **Distributed Production**

- *Exporting CMS environment to Wisconsin and Caltech.*
- *GDMP Exercises*
- *cmsim production at Caltech*
- *Site network configuration and throughput*

## ◆ **Hans Wenzel, Fermi Lab (Vivian O'Dell?)**

### ◆ **Distributed Production**

- *Remote cmsim production*

### ◆ **Tracking Software**



# Summary of Current Tasks of CAS Engineers

## ◆ John/Jane Doe, Fermi Lab

## ◆ Ianna Gaponenko, North Eastern University (Lucas Taylor)

### ◆ IGUANA Development

- *Event Visualization*
- *CMS Specific Analysis Tools*
- *Database Browser*

### ◆ Example Development

- *Examples of the combined use of commercial, HEP, and CMS developed tools for analysis.*

## ◆ Lassi Tuura, North Eastern University (Lucas Taylor)

### ◆ Architectural Development for CMS Software

- *Working within CAFÉ Group*
- *Collaborating with Vincenzo*

### ◆ IGUANA Development



# Summary of Current Tasks of CAS Engineers

## ◆ Tony Wildish, Princeton (David Stickland)

### ◆ Distributed Database Management

→ *Scripts for replicating databases and archiving*

### ◆ Database performance optimization and monitoring

→ *AMS optimization*

→ *Performance measurements of disk servers*

→ *Measured parameters for MONARC simulation*

→ *Implementation of Request Redirection Protocol*

### ◆ Distributed and Local ORCA and cmsim Production

### ◆ User Support

## ◆ Michael Case, UC Davis (Winston Ko)

### ◆ Started on Sep 5

### ◆ Developing Muon Software inside ORCA

### ◆ General ORCA development and support



# Acting Level 3 Project Managers

## ◆2.1 ORCA

◆ David Stickland

## ◆2.2 IGUANA

◆ Lucas Taylor

## ◆2.3 Distributed Data Analysis (Formerly ODBMS)

◆ Julian Bunn

◆ Rick Wilkinson

## ◆2.4 Support

◆ John/Jane Doe



# Work on Distributed Data Analysis WBS

◆ I spent some time working with the folks from Caltech on the ODBMS section of the WBS and we propose to change the name to **Distributed Data Analysis**

◆ **Distributed Analysis**

- *Task Scheduling*
- *Remote Analysis*

◆ **Distributed Database Management**

- *Perl Scripts*
- *GDMP Tools*

◆ **Distributed Production**

- *cmsim at Caltech Fermilab, Wisconsin*
- *ORCA Production*
- *Remotely monitored production at Tier1 and Tier2 centers*

◆ **System Simulation**

- *MONARC*



# Outlook

- ◆ **I need to work on ORCA section of WBS. I hope this can be parasitic on David's CMS Software WBS work.**
  - ◆ **Update the past since the last CMS WBS in 1999**
  - ◆ **Determine what needs to go into USCMS section of WBS**
  
- ◆ **Support sub-project needs to be better defined.**
  
- ◆ **Distributed Data Analysis section of the WBS needs a lot of work.**
  - ◆ **Mission statements that mesh with CMS's plans need to be created for each piece.**
  - ◆ **Project needs to be better documented.**
  - ◆ **Directions for the future and plans for the immediate future need to be better understood.**