

**IMPLEMENTING LINUX-ENABLED CONDOR**

**IN MULTIPLE WINDOWS PC LABS**

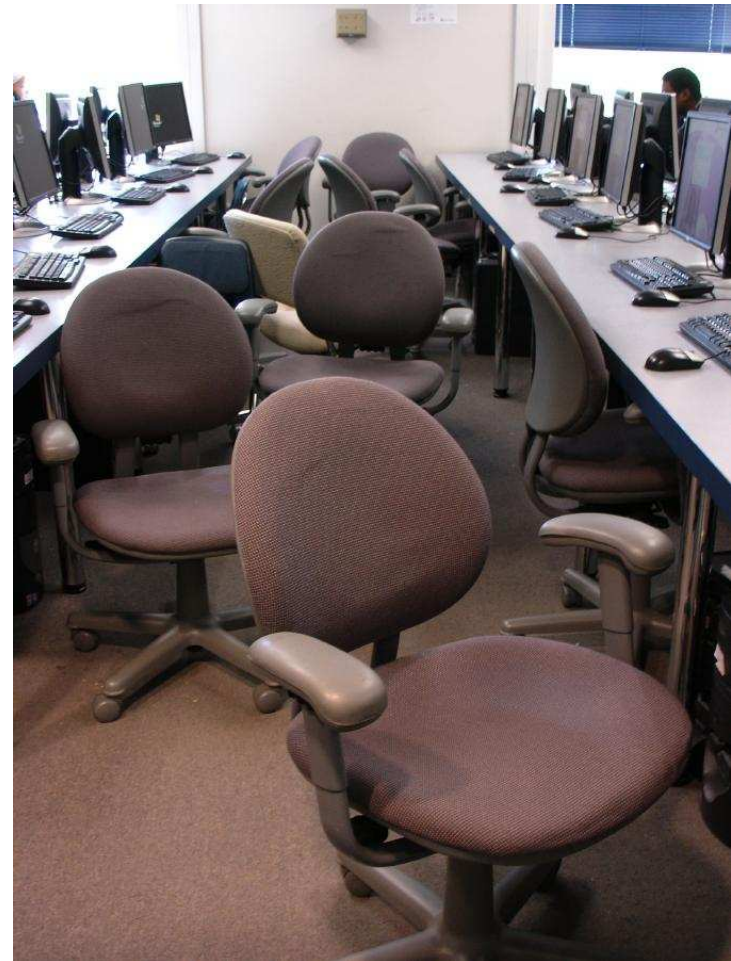
**JOSH ALEXANDER, CHRIS FRANKLIN, HORST SEVERINI**

**OSCER SYMPOSIUM 2006, OU**

**OCTOBER 4, 2006**

## OU Condor Pool

- 195 Node Condor Pool
- 3.0 GHz P4, 1 GB RAM, 40 GB HD, 100 Mbps network
- Distributed over Campus PC labs
- Switched from WinXP to RHEL4
- Added VMWare 5.5 + WinXP, and Condor 6.7
- Central Manager: 2.8 GHz P4, 2 GB RAM, 250 GB HD, 1000 Mbps network (Henry's desktop)



## OU Condor Pool (cont.)

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- Special Condor configuration necessary because PC labs are on private Network
- Special Firewall settings and DNS lookup (forward and reverse)
- Nodes imaged by IT with GHOST-like software
- All 750 Campus lab PCs to be included by Christmas
- Central Manager also Globus Gatekeeper
- OSG 0.4.1 with modified NFS-lite Condor jobmanager installed
- Reporting Pool Size and VO Jobs to MonALISA Repository



Open Science Grid Monitoring with MonALISA

http://monalisa.grid.iu.edu:8080/display

MonALISA Repository  
**OSG**



**MonALISA**  
MONitoring Agents using a Large  
Integrated Services Architecture

**MonALISA Client**  
Click on the button below to start the Monalisa Client.

MonALISA Repository

- Interactive map
- Jobs
  - VO aggregation
  - Site aggregation
  - Sites per VO
  - VOs per site
  - Statistics
- Accounting
- Site views
- Networking
- Sites status
- Repository info

close all

[OSG Reports](#)

[ABPing Configuration](#)

[Site Administration](#)

[Layout configuration](#)

[Bookmark this page \(url\)](#)

**Sites :** (check all | unchecked all)

ATLAS  
  CDF  
  CMS  
  DES  
  DOSAR  
  DZERO  
  FERMI LAB  
  FMFI  
  GADU  
  GEANT4  
  GLOW  
  GRASE  
 GRIDEX  
  GROW  
  I2U2  
  MDGL  
  LIGO  
  MARIACHI  
  MIS  
  NANO HUB  
  OSG  
  OSGEDU  
  SDSS  
  STAR

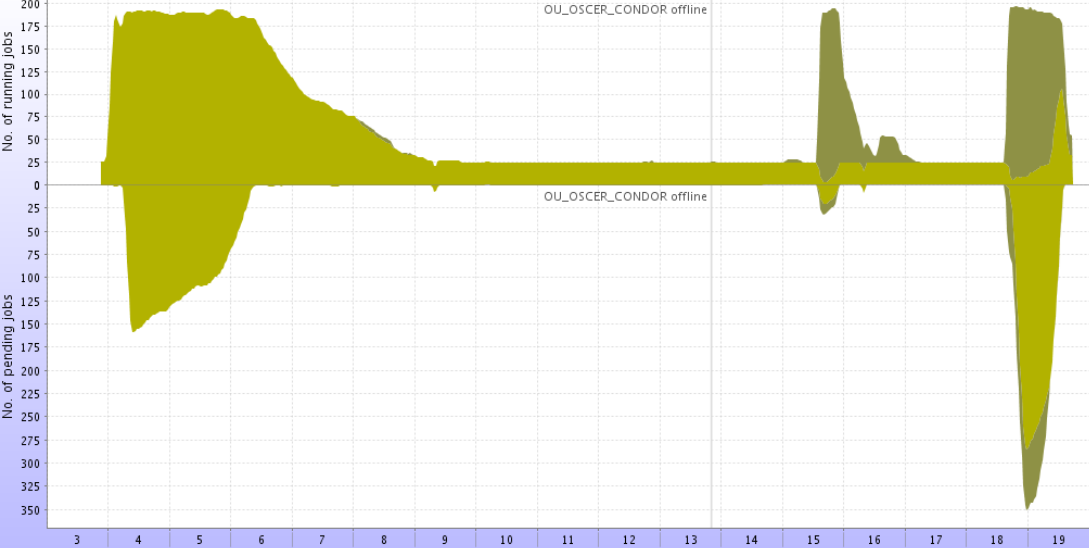
Interval selection: - choose - or «  | 21:00 -  | 18:00 »    Image size:

Select Farm:     Annotations:  visible   

**Graphs :**  Running Jobs    Pending Jobs    (check all | unchecked all)

[Annotations](#)    [Chart description](#)

### Jobs for OU\_OSCER\_CONDOR



GMT time     DOSAR    DZERO

Running Jobs for OU_OSCER_CONDOR				
Farm	Last value	Min	Avg	Max
DOSAR	33	2	59.27	195
DZERO	21	0	16.83	194
<b>Total</b>	<b>54</b>		<b>76.09</b>	

Pending Jobs for OU_OSCER_CONDOR				
Farm	Last value	Min	Avg	Max
DOSAR	0	0	25.57	287
DZERO	0	0	2.868	79
<b>Total</b>	<b>0</b>		<b>28.43</b>	



## Current Activities

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- OU Condor Pool being used for DØ SAMGrid MonteCarlo jobs and Bio/Chem/Material Science computations
- Reported to MonALISA Repository as DØ/DOSAR Virtual Organization (VO) Jobs



## Future Plans

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- Expand Condor Pool Usage
- Continue using it for DØ SAMGrid production
- Also use it for Data Processing and Physics Analysis
- Try to improve ATLAS code to run on non-shared file systems
- Educate local users about OSG interface
- Then teach them to submit to other OSG resources

