

# Computational Resource Allocation Group (CRAG)

## MEETING MINUTES

18<sup>th</sup> June 2010

### In Attendance:

- Clare Gryce (acting CRAG Secretary) [CG] – *acting Chair for meeting*
- Eric Fraga [EF]
- Thomas Jones [TJ]
- William Hay [WH]
- Nik Kaltsoyannis [NK]
- Ben Waugh [BW]
- Bruno Silva [BCS]

### Apologies:

- John Brodholt (CRAG Chair) [JB]
- Ian Eames [IE]
- Andrew Martin [AM]

### **1. Approval of Minutes of last meeting and Matters Arising**

The minutes of the May 2010 meeting, which had been previously distributed, were approved by the group.

### **2. Review list of actions**

The list of actions from the last meeting was reviewed and the list updated (see table below).

### **3. Unity service usage**

Clare Gryce reported that preliminary, raw statistics for service usage are now available – these need to be assembled into a regular graphical report for the CRAG.

Bruno Silva reported that in the absence of any limits on job length, some very long jobs are now being submitted, effectively making the service less usable for others.

It was agreed that as an interim measure, a limit of 3 days wall clock time for all jobs should be implemented as soon as possible.

#### **4. Review of current Legion usage statistics**

The group briefly reviewed the May statistics and noted that usage from the TYC (Thomas Young Centre) Consortia was particularly low.

A summary report showing wait times plotted against job size and CPU hours used, for the last six months, had been distributed in advance of the meeting.

The group considered possible ways of measuring overall wait times for the service; it was agreed that a scatter plot showing wait times against requested wall clock times should be provided.

Clare Gryce explained how it was planned to migrate the service (and user accounts) as part of the Upgrade project, for which implementation will start in early July. The Research Computing Sub-Committee has agreed that users should be asked to re-apply for their accounts, allowing the large number of 'dormant' accounts to be removed. It was noted that this will also offer an opportunity for Projects currently associated with the 'Pending' Consortium to be properly associated with existing Consortia.

#### **5. Condor service statistics**

Service usage statistics for the period October 2008 to date had been distributed in advance of the meeting. Clare Gryce explained that these do not include the work done on the Condor Pool by the Polymorph project, which uses a dedicated submission machine, and that IS is looking into getting access to the relevant data on the machine hosted by Computer Science.

#### **6. AOB**

There was no other business

#### **7. Date of next meeting**

It was agreed that the group should continue to meet over the summer. Clare Gryce to suggest dates.

*Clare Gryce  
Research Computing Manager  
Information Services Division  
23rd June 2010*

**LIST OF CURRENT ACTIONS**

Shaded (closed/completed) items will be deleted in the next version

	<b>Actions</b>	<b>Status</b>	<b>Owner</b>
10	HEP and RC to decouple the running of the middleware from Legion and run this from HEP Central.	In progress (see new Action 38)	CG/BW
10a	MoU between CRAG/RC and HEP to be agreed.	Pending	CG/BW
18	MoU between CRAG/RC and Miracle project to be agreed on confirmation of funding.	In progress	CG
30	Web information about list of applications available on Legion to be updated, to include applications waiting to be installed, and any items that have been 'prohibited'.	In progress	CG
31d	Monthly Condor usage statistics should be provided.	Done	CG
33c	RAM usage by jobs on the Unity Altix 4700 to be monitored and reported to CRAG each month.	Pending	CG
35	Monthly data showing a histogram of number of users vs % use of machine, to be provided.	Pending – raw stats available, need to create report	CG
37	More detailed information be provided to users regarding actions they may take in response to wait times experienced	In progress: Script being produced to report blocked jobs  SGE features to be implemented post Upgrade	CG

39	Daniel Hulme to be advised to join Mathematics Consortium; CRAG to facilitate.	Pending	JAY
40	Online Applications information – for those apps which are not centrally supported, information to be provided about which groups are running them, to enable knowledge transfer	Pending	
42	Implement changes to job handling agreed at May meeting	In progress (two of three changes have been implemented)	CG
43	Implement 3 day wall clock time for all jobs on Unity.		TJ
44	Scatter plot to be provided showing Legion wait times against requested wall clock times.		CG