June 2013 OSG Workshop

Quick link: http://go.unl.edu/hccosg2013

Location: Unity Room/212 in the Jackie Gaughan Multicultural Center

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9am</td>
<td>Intro to HTC</td>
<td>Introduction to High Throughput Computing</td>
</tr>
<tr>
<td>10:30am</td>
<td>Practice Blast Job</td>
<td>Run a real science application, Blast, on a Condor based system.</td>
</tr>
<tr>
<td>12pm</td>
<td>Lunch</td>
<td>Lunch is provided.</td>
</tr>
<tr>
<td>1pm</td>
<td>Workflows</td>
<td>Learn how to describe a workflow in DAG format.</td>
</tr>
<tr>
<td>2pm</td>
<td>Portability</td>
<td>Transfer input and output files with the jobs</td>
</tr>
<tr>
<td>3pm</td>
<td>Big Data</td>
<td>Learn how to handle large data in HTC</td>
</tr>
</tbody>
</table>

Password for demo account is 'OSG@HCC2013'.

1. Intro to HTC (A)
   a. HTC vs. HPC
   b. Submitting HTC jobs

2. Practice Blast Job (D)
   a. input files
   b. output files
   c. job monitoring - where to look for problems
   d. Condor clustering?
   <lunch>

3. Dagman (D)
   a. Intro to dagman
   b. Multiple queries and summarize OSG Page

4. Portability (A)
   a. Compiling for lowest common denominator
   b. Data Requirements
   c. Packaging (wrapper scripts?)
   d. Example: Running R on the OSG

5. Big Data (A)
   a. Medium Data 10MB - 500MB - HTTP
   b. Large Data 500MB+ - SRM / GridFTP
   c. Example: Using HTTP

Materials borrowed from OSG.