June 2013 OSG Workshop

Quick link: [http://go.unl.edu/hccosg2013](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>
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<tr>
<td>10:30am</td>
<td>Practice Blast Job</td>
<td>Run a real science application, Blast, on a Condor based system.</td>
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<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>
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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.