Wrapping up the grid session

DOSAR

Original slides by: Rob Quick <rquick@iu.edu>

Experience gained from tutorials

- You have exercised several job submissions
- And made changes to your jobs to allow self controlled job submissions
- Seeing your jobs on condor_q was elating, wasn't it?
- So far you have just highlighted and pasted the examples listed in the tutorial page
- But you can certainly make changes to fit your own purposes!
- The tutorial taught you what to do to use the grid system that sits behind the scenes

Open Science Grid

Further steps

- **The ASP grid school tutorial page** is always the place to return to refresh your memory
- Most of you must have completed a lot of the exercises in the ASP grid school page
- The next step is to take your vanilla universe jobs to more standard jobs listed on the **Submitting a Standard Universe job**
- Once you complete the above, you can then take on making the change to the behavior of the standard universe looking at the **condor manual**
- Important thing is not let it slide but keeping it up!

Computing Infrastructures

- Local Laptop/Desktop – Short jobs with small data
- Local Cluster – Larger jobs and larger data but subject to availability
- HPC – Prime performance with parallelized code
- HTC – Sustained computing over a long period for serialized workflows
- Cloud – Need deeper permission on an OS and/or have deeper pockets

Some examples of Academic CIs Worldwide

- HTC
  - EGI (formally European Grid Initiative)
  - OSG (Open Science Grid)
  - ASGI (Asia Pacific Grid Initiative)
  - NorduGrid
  - Earth System Grid (ESG)
  - Many other regional and national infrastructures

- HPC
  - XSEDE (eXtreme Science and Engineering Discovery Environment)
  - PRACE (Partnership for Advanced Computing in Europe)
  - Compute Canada
  - Greek Research and Technology Network (GRNET)
  - Centre for HPC (South Africa)
  - Many other national infrastructures

- Cloud
  - EGI Federated Cloud
  - NeCTaR – National eResearch Collaboration Tools and Resources
  - Jetstream (Part of XSEDE)
  - SwissACC (Swiss Academic Computing Cloud)
  - Many other national cloud infrastructures

What happens when you go home?

- DOSAR: Distributed Organization for Scientific and Academic Research dosar.org/

- You are welcome to join our bi---weekly video (Vidyo) meetings. Send request to be added to DOSAR email list to Prof. Greenwood: greenw@phys.latech.edu reference you attended the ASP2018

- If you want long--term grid access, you can request membership in the DOSAR VO

Questions?

- Questions? Comments?
  - Feel free to ask us questions now or later:

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