Forward *

Tim Cartwright

University of Wisconsin–Madison

OSG School Director
OSG Deputy Executive Director
OSG Campus Coordinator
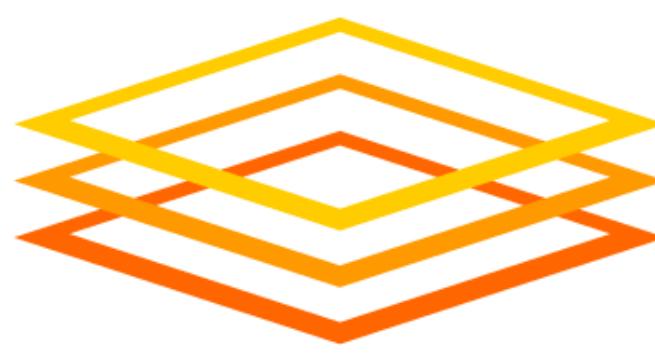
* Among other things, this is the State Motto of Wisconsin
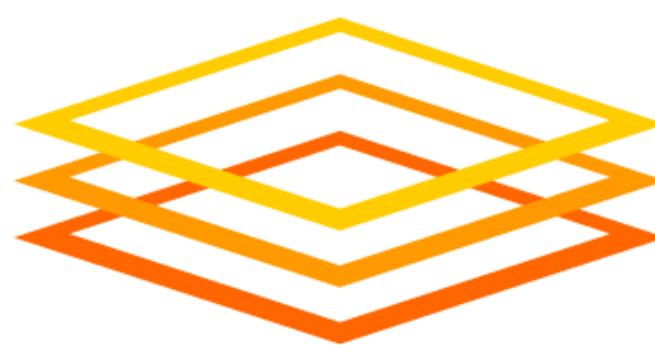
Ideas for Going Forward from Here

- Getting resources
- Staying in touch
- Final logistics
- Tim's random ideas

Getting Resources
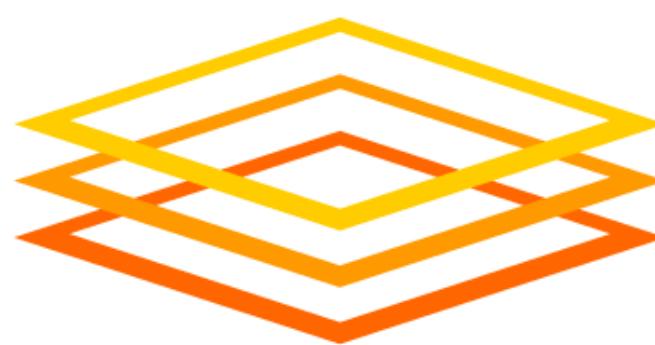
Free Resources – In Your Lab

Server or cluster in your lab

👍 Not your laptop, control everything

👎 Buy and maintain it, not a lot of resources

https://images.abmx.com/30/3004/abmx_3004_1_1200.jpg

Free Resources – Local Cluster

Department or campus cluster
👍 No/low direct costs, local help
👎 Shared; maybe Slurm, PBS/Torque, LSF...
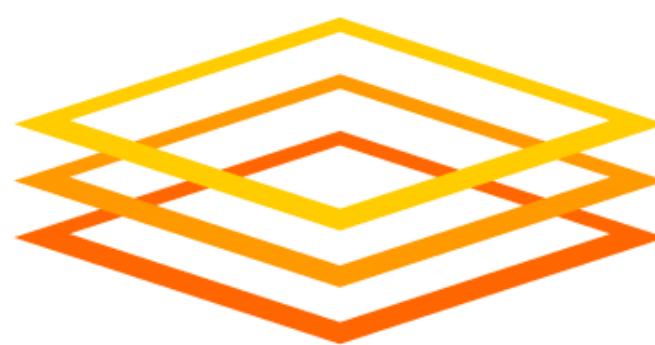
No campus cluster? Talk to CIO!
Note! NSF CC* Compute awards
https://www.nsf.gov/pubs/2023/nsf23526/nsf23526.htm

https://www.pngall.com/wp-content/uploads/5/Server-Rack-PNG-Free-Image.png
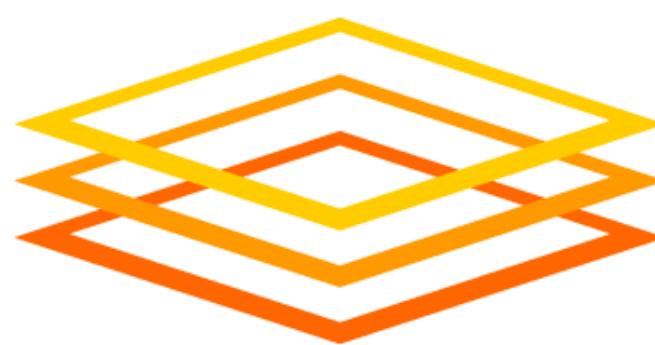
Free Resources – Collaborators

Collaborators
👍 No/low direct costs, may be tailored to project
👎 Shared, project-specific, hard to come by

https://www.dunescience.org/about-the-collaboration/
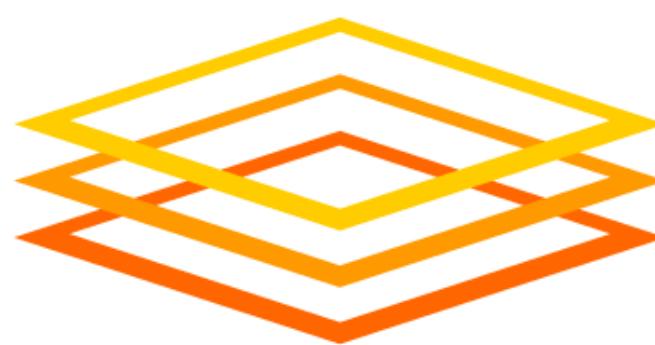
Science Gateways (e.g., web front-end to a cluster)
👍 Easy to use, no/low cost
👎 Only for pre-defined use cases
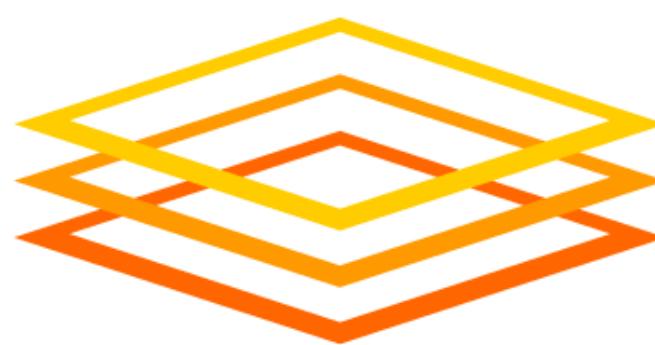
Commercial Resources

- **Commercial clouds** *(Amazon, Google, Microsoft, …)*
    - 👍 Don't own, high availability, many options (e.g., GPUs), …
    - 👎 Pay/hour, data out may be costly; challenging to manage

- **Managed clouds** *(Azure CycleCloud, Globus Genomics, …)*
    - 👍 As above, but *less* to manage
    - 👎 Costs more (paying someone to manage), fewer options?

- But keep commercial options in mind:
    - Credits may be available
    - May be able to write into grants
    - May be helpful for burst of activity (e.g., for a deadline)
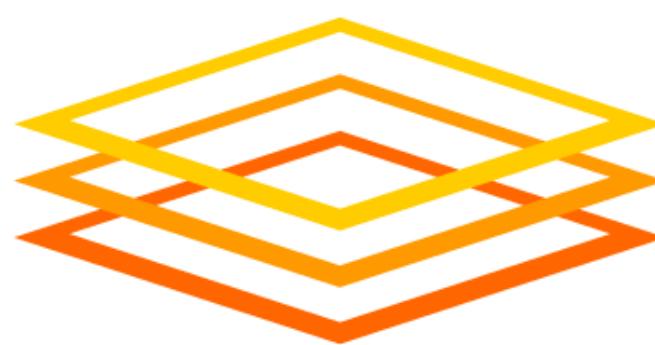
PATh Facility

The **PATh Facility** is a purpose-built, national-scale dHTC resource meant to deliver computational capacity to **NSF** researchers
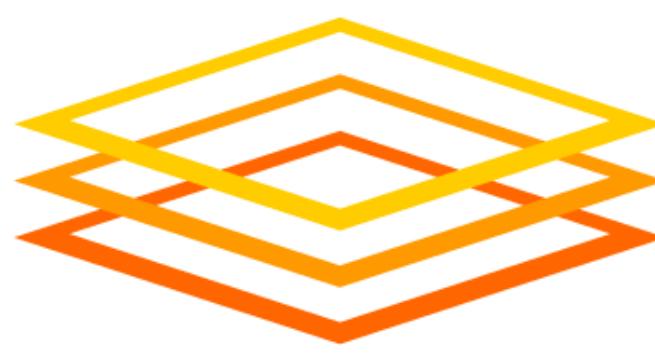
- Began in 2022
- Can apply for credits – existing or new NSF award
- Credits go toward dedicated dHTC resources
- See PATh website and NSF DCL 22-051 for more: https://www.nsf.gov/pubs/2022/nsf22051/nsf22051.jsp
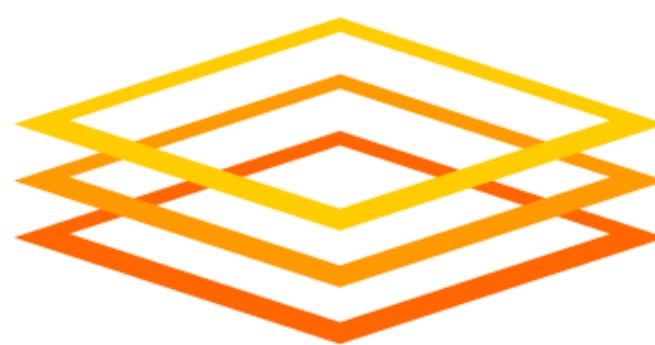
Your School Accounts

- **ap1.facility.path-cc.io** – goes away after Aug. 18
  - This is your last warning!
  - Or, see previous comments about getting credits

- **ap40.uw.osg-htc.org** account
  - If just created for School, temporary (~1 month)
  - But, just take easy steps to convert to full account
  - See School website (Logistics > Access OSPool):
    https://osg-htc.org/user-school-2023/logistics/projects/

- Remember that Access Points are not backed up!

Staying in Touch

Forward · Cartwright · August 11
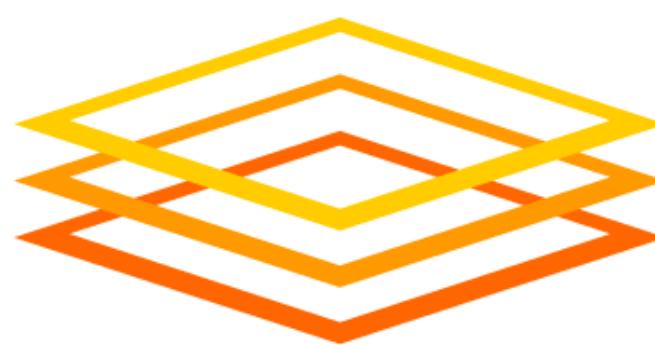
How to Reach Us

- ## For OSPool and other OSG topics
  - support@osg-htc.org
  - Reaches the OSG Research Computing Facilitators

- ## For School-specific things
  - Always use user-school@osg-htc.org
  - Reaches Tim, Christina, Janet… and indirectly, many others

- ## Any time, for any reason, email us directly:
  - Tim Cartwright <cat@cs.wisc.edu>
  - Christina Koch <ckoch5@wisc.edu>

Online Support

Websites

htcondor.org   HTCondor homepage

htcondor.org/manual   HTCondor manual

osg-htc.org   OSG homepage

portal.osg-htc.org/documentation   OSPool docs

chtc.cs.wisc.edu   CHTC Website

chtc.cs.wisc.edu/guides   CHTC How-To Guides
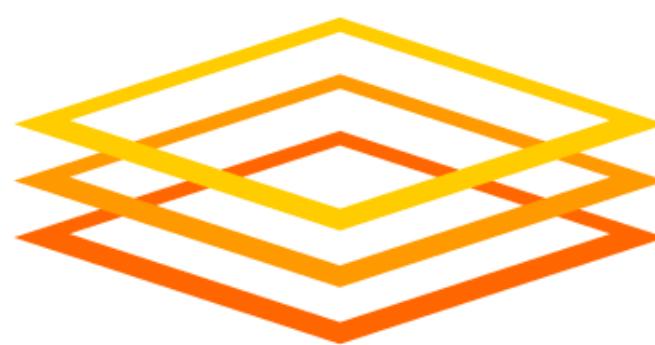
Mailing Lists

user-school@osg-htc.org   will remain
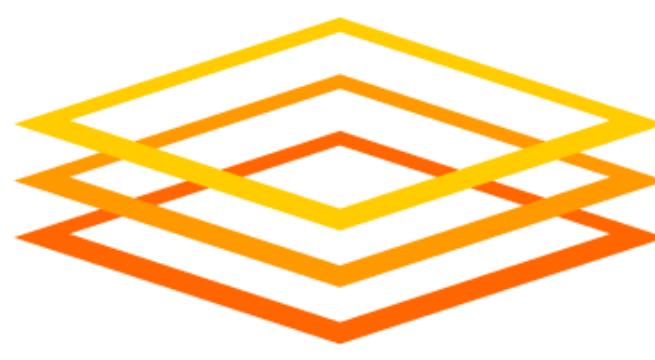
support@osg-htc.org   general OSG help
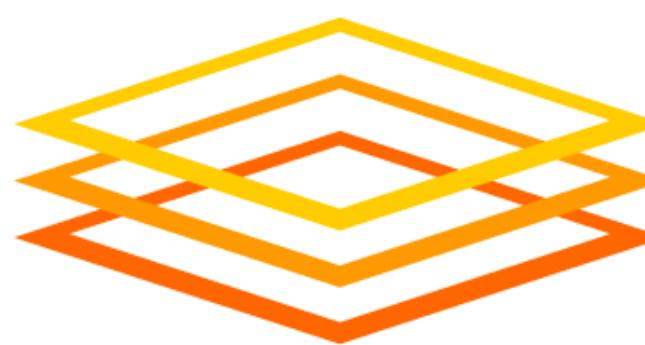
Meetings
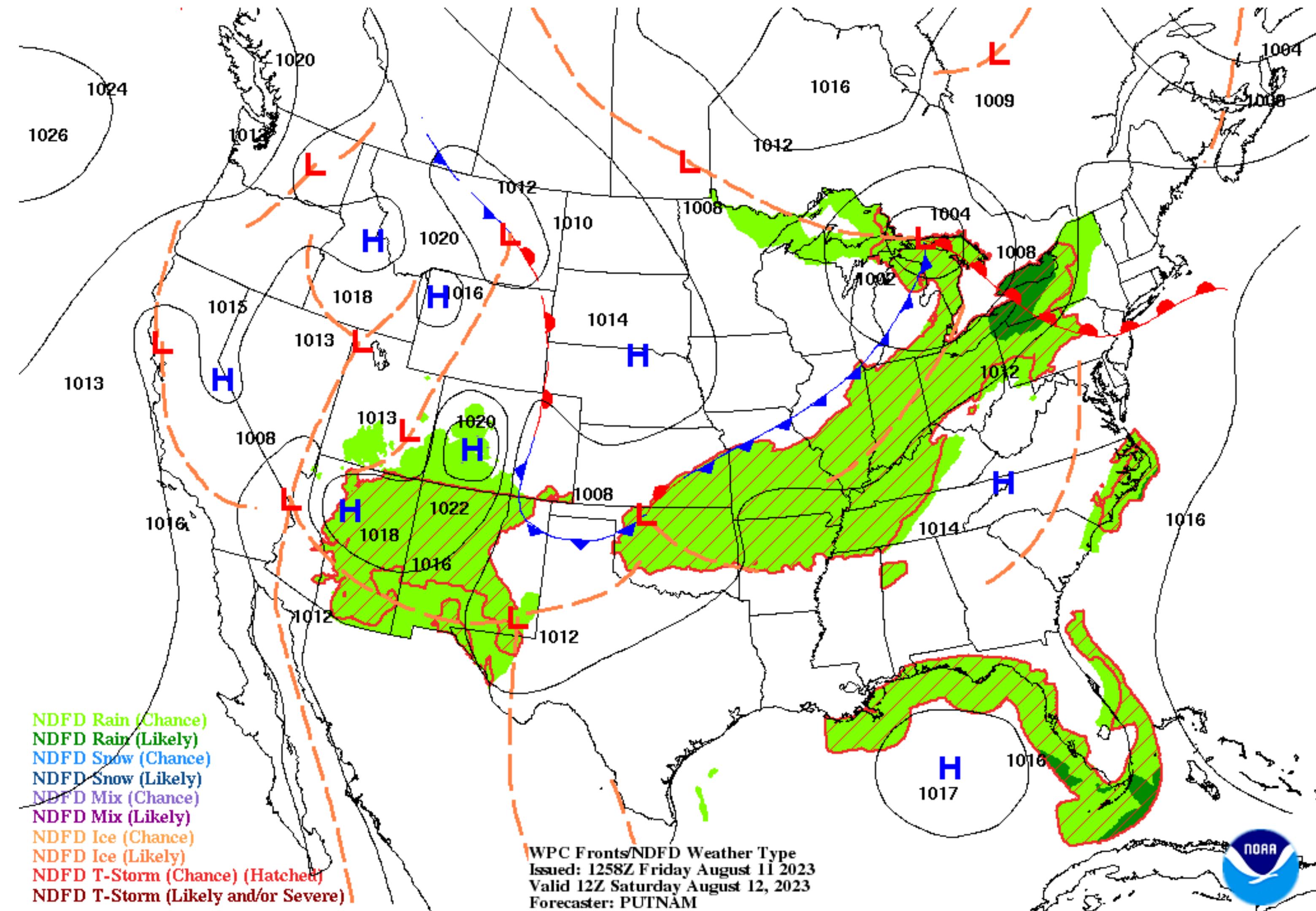
- **OSG All-Hands Meeting**
  - Now part of *Throughput Computing meeting*
  - Likely in mid-July, 2024
  - **David Swanson Award** – former School participants

- **HTCondor Week**
  - Part of *Throughput Computing meeting*, too

- **European HTCondor Workshop**
  - 19–23 Sep 2023

Final Logistics

NDFD Rain (Chance)
NDFD Rain (Likely)
NDFD Snow (Chance)
NDFD Snow (Likely)
NDFD Mix (Chance)
NDFD Mix (Likely)
NDFD Ice (Chance)
NDFD Ice (Likely)
NDFD T-Storm (Chance) (Hatched)
NDFD T-Storm (Likely and/or Severe)

WPC Fronts/NDFD Weather Type
Issued: 1258Z Friday August 11 2023
Valid 12Z Saturday August 12, 2023
Forecaster: PUTNAM
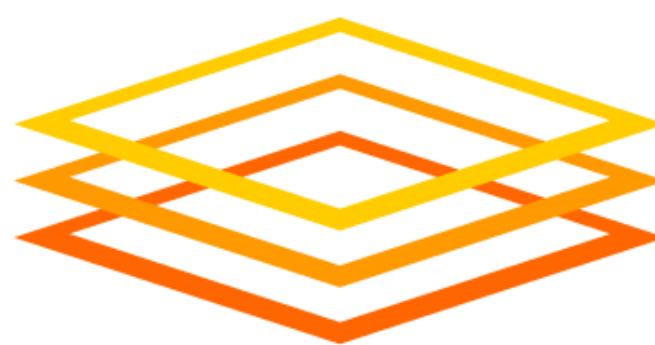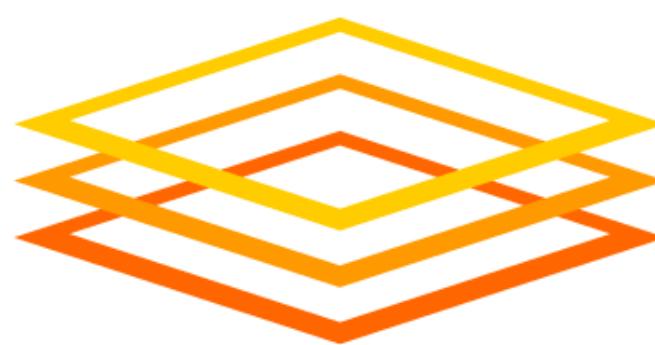
Travel

- Transportation emails went out today
  - Most people will take taxi/rideshare
  - Payer should write down who shared the ride

- Remember the travel advice page:
  https://osg-htc.org/user-school-2023/logistics/travel-advice/

- If you encounter issues:
  - Try the airline first
  - Call Travel Inc. if necessary (we are charged $18)
  - Let us know (if you want to and have time)
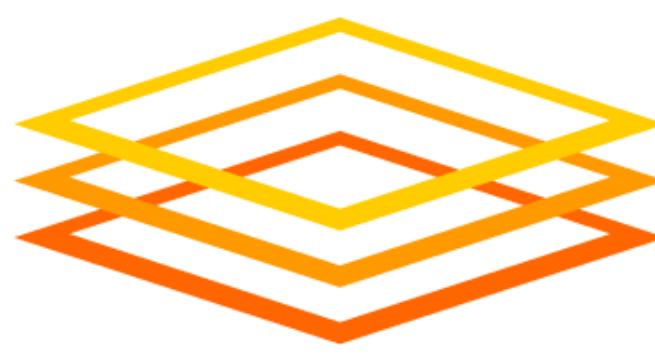
Reimbursements

- What can be reimbursed?
  - Bus fare to/from Madison (if you paid)
  - Taxi or rideshare to/from Madison airport
  - Driving mileage, *if prearranged*
  - Meals, as noted on the meals page
  - Other *prearranged* things
  - It is best to have actual receipts

- How to get reimbursed?
  https://osg-htc.org/user-school-2023/logistics/reimbursements/
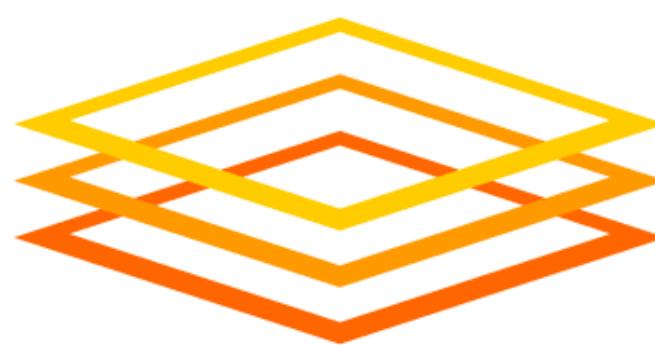
Short Essay (If No Lightning Talk)

- Similar to the lightning talks, but written
  - Basic summary of current research work
  - One key computational challenge
  - How will you apply new knowledge & skills to research?

- Due by 22 September 2023 (same as reim.)

- Submit to School mailing list for review

Forward
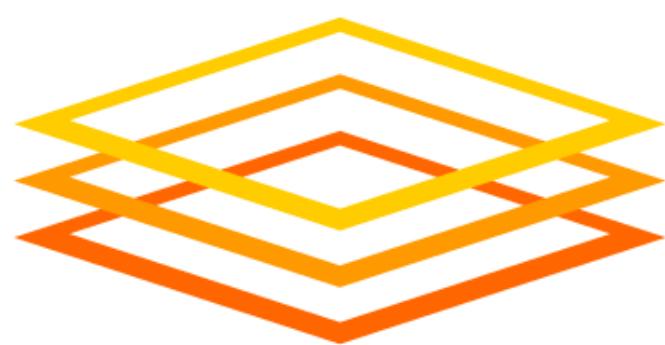
How to Work With Us

- We are driven by user needs and expectations, plus our principles

- So push us to help make your research possible

- And we may push on you to take your work even further!
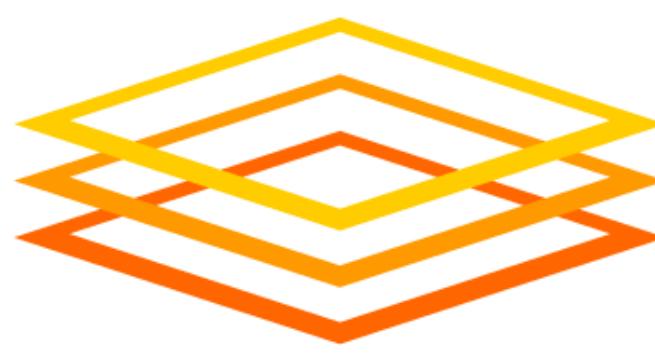
Photo: SafetySign.com

Be Part of the Community

Forward · Cartwright · August 11
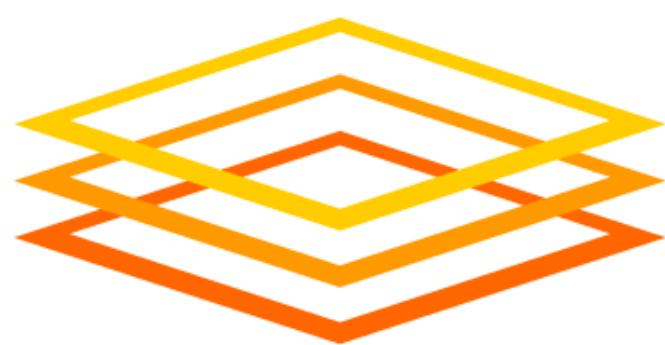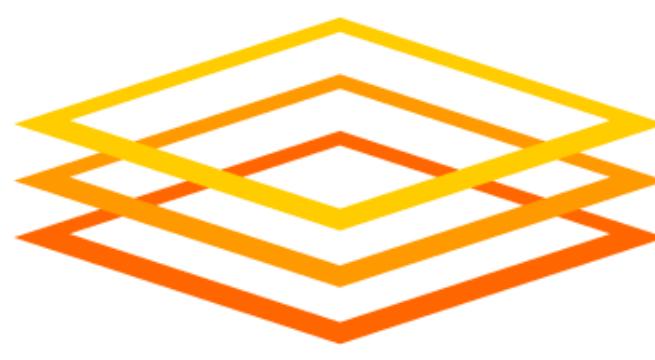
Don't let computing be a barrier to research!

I, [YOUR NAME], solemnly swear to not let computing be a barrier to research!

THANK YOU!

Forward · Cartwright · August 11
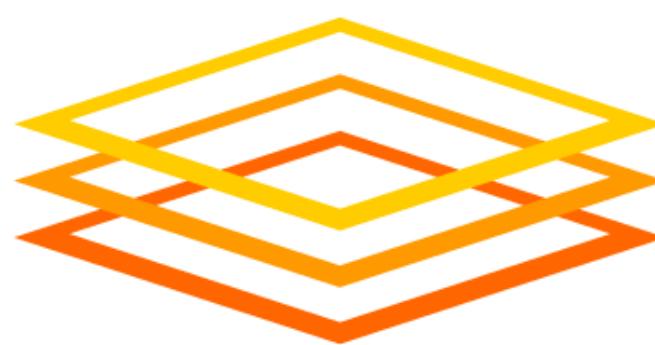
Closing Dinner

Union South, Industry Room and outside
(1308 West Dayton Street, 3rd floor)

6:00 p.m.

Acknowledgements

This work was supported by NSF grants
OAC-1836650 and OAC-2030508