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ECCE Simulation Workshop
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EIC/ECCE Computing Resources

For more information:

[J. Lauret Computing Report at EICUG, 5/20/2021](#)

Storage

- Pledged resources

BNL	1 PB
JLab	1 PB

Availability:

BNL (soon?)

JLab (>= 1 month)

Compute

- Pledged resources

BNL	2k cores - 4 months
JLab	2k cores - 4 months
OSG	4k cores

Availability:

now

- ***All pledged resources are for “EIC” and not for specific proto-collaborations***
 - How to fairly allocate between EIC, ATHENA(IP6), CORE, ... ?
 - UG formation of Computing Coordination Group (CCG)
 - How to implement quotas?
 - start with directory structure and “first-come-first-served” access

Access

- Compute

- Access to the bulk of BNL and JLab resources will likely be limited to a few people so they can be rationed and we can ensure minimal duplication
 - Requests should be sent through the *Simulation WG*
 - https://wiki.bnl.gov/eicug/index.php/ECCE_Simulations_Working_Group
- Access to the OSG opportunistic cycles will likely be open, but limited by access to the large storage resource
- “Long term” plan is to try and make system where all campaigns can be submitted via OSG in order to get fastest turnaround time
 - How to handle writing to distributed storage is an issue

- Storage

- Write access will likely be limited to a few people (exact model has not been discussed)
 - Read access to entire 1PB+1PB storage will be available to those with accounts at BNL*, JLab
 - Global read access will be made available to only certain files (~100TB/site)
 - S3 for BNL
 - xrootd for JLab
- ← *best guess at the moment*

Accounts

- Some work has been going on to federate BNL and JLab access
 - Federated access so account at one lab can get you access to the other (Jerome, Graham)
 - Many details worked out, but many more to make this a reality
 - First items will be communications/social media systems
 - Compute and storage resources will come later (too late for us to plan on)
- Users may apply for offsite (computer access only) accounts at each of BNL and JLab
 - I don't recommend doing this now if you are not already a user at both BNL and JLab
 - May not be necessary due to global access plan for the most relevant files
 - You'll have limited access to the large EIC resources even with an account
 - ***Please do not execute large campaigns*** (i.e. reading through ≥ 100 TB of data) ***without coordinating with the Simulation WG***