

# ALCF 2021 Computational Performance Workshop

**Corey Adams  
Jim Collins  
Yasaman Ghadar  
Kathy Gorgan  
Brian Homerding  
Ray Loy**

**Jeri Knepper  
Christopher Knight  
Avanthi Mantrala  
James Osborn  
Kris Rowe  
Misha Salim**

MAY 4-6, 2021

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# ALCF

## Computational Performance Workshop



# Computational Performance Workshop

<https://www.alcf.anl.gov/events/2021-alc-f-computational-performance-workshop>

- Focus is on achieving computational readiness on ALCF resources
  - Successful proposals describe complete end-to-end workflow
- Cover diverse topics to help boost application performance
  - Current & Future ALCF resources, programming models, frameworks, workflows, tools...
- Mix of presentations & hands-on
  - Slides & videos will be made available on agenda website
  - GitHub repo: <https://github.com/argonne-lcf/CompPerfWorkshop-2021>
- Remember to take breaks and stretch!

# Staff available to help

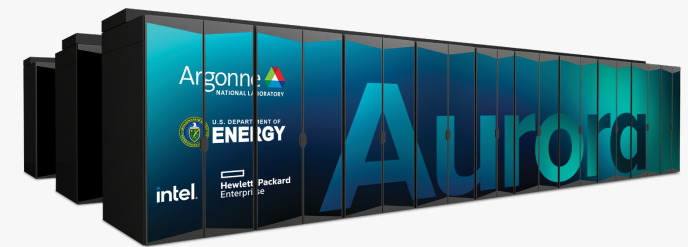
<https://www.alcf.anl.gov/events/2021-alcfc-computational-performance-workshop>

- ALCF, vendor, and tools staff available to help in Slack
- Intel & NVIDIA
- HPCToolkit & TAU
  - Overview in Breakout room right now!
- Please reach out in Slack with questions
  - Encouraged to start discussions early

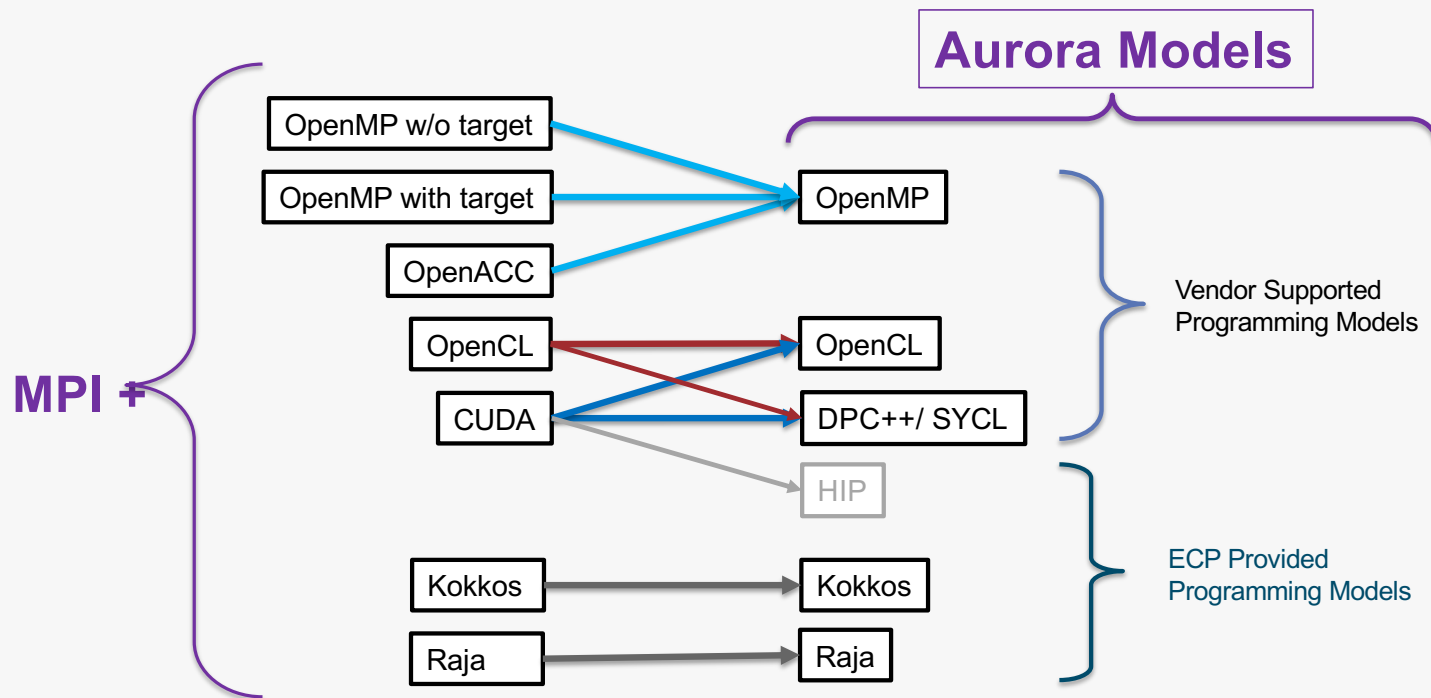
# ALCF Allocations

<https://www.alcf.anl.gov/support-center/account-and-project-management/allocations>

- Allocation programs
  - INCITE: <https://www.doeleadershipcomputing.org/>
  - ALCC: <https://science.osti.gov/ascr/Facilities/Accessing-ASCR-Facilities/ALCC>
  - ADSP: <https://www.alcf.anl.gov/science/adsp-allocation-program>
  - DD: <https://www.alcf.anl.gov/science/directors-discretionary-allocation-program>
- INCITE 2021 Call is now open!



# Mapping Existing Programming Models to Aurora



# Getting Started on ALCF Resources

- Documentation
  - Theta: <https://www.alcf.anl.gov/support-center/theta/theta-thetagpu-overview>
  - ThetaGPU: <https://www.alcf.anl.gov/support-center/theta-gpu-nodes>
  - Cooley: <https://www.alcf.anl.gov/support-center/cooley>
- Remainder of Overview session
  - Getting Started on Theta - Graham Fletcher
  - Getting Started on ThetaGPU - Christopher Knight
  - Hands-on
    - Logging into Theta
    - Compiling test codes
    - Submitting test jobs
- Ask questions in Slack if you run into issues!!