NCAR Computing Proposal and Cheatsheet

David Bailey

National Center for Atmospheric Research

CISL Allocations

Secure | https://www2.cisl.ucar.edu/user-support/allocations

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GETTING STARTED

New user orientation

Best practices

Allocations
- University allocations
- Climate Simulation Laboratory (CSL)
- NCAR Allocations
- Determining computational resource needs
- NWSC science impact

Managing allocations and charges

HOME » USER SUPPORT

Allocations

HPC resources | Climate Simulation Laboratory | University Community
NCAR Community | Wyoming-NCAR Alliance | Accelerated Scientific Discovery

The Computational and Information Systems Laboratory (CISL) provides large computing resources for university researchers and NCAR scientists in atmospheric and related sciences. To access these supercomputers, storage systems, and other resources, users must apply for allocations, which NCAR makes available through several facilities.

Applications are reviewed and time is allocated according to the needs of the projects and the availability of resources. Send questions about the following allocation opportunities to alloc@ucar.edu.

Allocations for Cheyenne

The January 2017 deployment of the Cheyenne environment at the NCAR-Wyoming Supercomputing Center (NWSC) greatly expanded the resources and opportunities

Small Allocations

Requests for up to 400,000 core-hours on the Cheyenne system are considered **small requests**.

U.S. university researchers who are supported by NSF awards can request a small allocation for each NSF award. University researchers also can request allocations for the use of the Casper/DAV cluster as well as the CMIP Analysis Platform.

Small requests typically receive a partial allocation within a few business days. Once the initial allocation is consumed, you can request additional resources by logging in to https://xras-submit.ucar.edu/login with your login token and requesting a supplement.

Large Allocations

https://www2.cisl.ucar.edu/chap/submission

A. Project Information

Includes: Title, NSF Award Title, NSF Award Number, Project Lead, Submission Date

B. Project Overview

A brief (less than half a page) summary of the science question and computational plan.

C. Science Objectives

The science objectives should be *briefly* described. This section should give sufficient information for understanding the computational plan in section D; it is not necessary to justify the science objectives as they must have already passed NSF review.

D. Computational Experiments and Resource Requirements

The bulk of the Request Summary should focus on Section D. Discuss your planned computational experiments and the resources needed to conduct the work in this section.

PCWG Allocation

- The PCWG receives resources in 2-year intervals.

- All members of the PCWG can propose experiments.

- When they are of general interest to the PCWG, a piece of the allocation can be designated for your use.