

UAB IT — Research Computing

Need Resources?

Empower your **Research**
through **Computing**

We are UAB IT Research Computing, dedicated to empowering UAB researchers through access to our team of RC experts, high-performance computing resources, data management, and collaboration tools.

What we can offer you:

- An **expert team** of facilitation and operations professionals;
- Compute including **CPUs**, **GPUs**, and related tools;
- Software including **Jupyter**, **MATLAB**, **R**, **SAS**, and more;
- Scalable solutions for data management customizable for your project's needs, including Globus and **up to 100TB** of storage.



Documentation

Visit for much more info!
<https://docs.rc.uab.edu>

Hardware Summary

GPU

- **40 A100** 80GB for AI and deep learning
- **72 P100** 16GB for ML and prototyping

CPU

- ~**14,000** cores (AMD & Intel)
- **512 GB** up to **1.5 TB** memory per node

Cloud

- **32 A100** 40GB for AI and deep learning
- sudo, containers, web apps, prototyping

Questions? Contact us!

<https://docs.rc.uab.edu/#how-to-contact-us>

Zoom Office Hours

Mondays & Thursdays
10:00 AM – 12:00 PM



Email — support@listserv.uab.edu

Got Data?

Research Computing Shared Storage Options

Platform	Access?	Size (TB)?	Expandable?
Cheaha (GPFS)	SSH, OOD, Globus	25 TB	Not yet...
Long-Term Storage (LTS)	CLI, Globus	75 TB	Yes (at cost)

Who can request these allocations?

- PIs and Core directors can request shared storage allocations.

How to add staff, students, collaborators?

- **Cheaha**: Submit a request to support@listserv.uab.edu.
- **LTS**: Use Globus or set bucket permissions through CLI.

What about individual storage allocations?

- All UAB faculty, staff, and graduate students are entitled to 5 TB storage allocations on Cheaha and LTS.

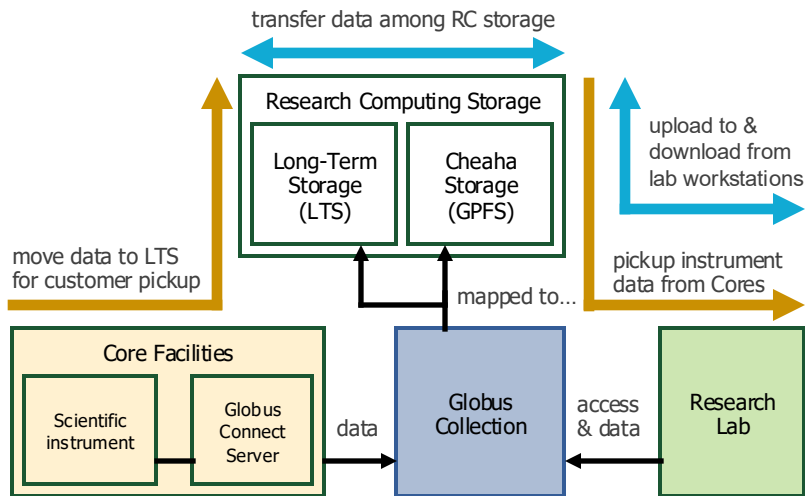
What if I need more storage?

- Let's talk! Email us at support@listserv.uab.edu.

What if I have PHI or other protected data?

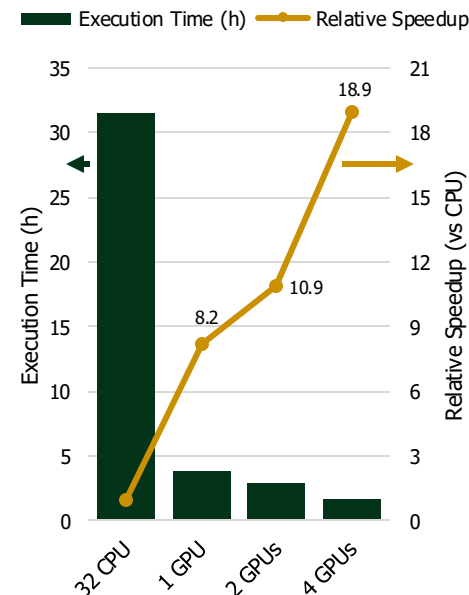
- Currently only Cheaha is HIPAA aligned.
- Both Cheaha and LTS are authorized to store PHI. In addition, Globus and any SFTP transfer tool (scp, rsync, rclone, etc.) are available tools to transfer PHI between Cheaha, LTS, and other machines.

Globus for Cores and Researchers



Speed up!

Case Study: GPU Parabricks



Case Study: Genome Annotation

90 calendar days saved
8.5× single-core speedup
50× parallel speedup



Create your account!

<https://rc.uab.edu>