

## At OU, what supercomputer systems are available for academic research?

1) **Accounts on Schooner**, our main system for high-performance parallel computing, is offered free to all students, faculty, staff, researchers, collaborators and other qualifying researchers at external institutions.

**Scratch Disk Space:** When you create a file in your /scratch directory, a 2 week clock starts ticking, during which you'll get **two warnings**. After 2 weeks, the file will be moved to a hidden secret directory. For the **next 1 week**, you can ask us to restore it to your regular /scratch space to copy it elsewhere. After the **3rd week**, the file will be **DELETED FOREVER AND NEVER RECOVERABLE**. **Premium Scratch Service - \$5 monthly charge prevents autodelete.**

2) For those needing a more robust, dedicated processing environment, we offer condominium purchases that allows faculty and principal investigators using equipment purchase funds from their grants or other available funds to purchase compute nodes (individual servers) which are then added to the OU research computing cluster. This allows PI-owned nodes to take advantage of the high speed Infiniband interconnect and high performance Lustre parallel filesystem storage. Compute node equipment is recommended for a 4-year lifecycle at which point the PI owning the nodes will be notified that the nodes will have to be upgraded during year 5.

**Condominium Pricing**-please contact [support@oscer.ou.edu](mailto:support@oscer.ou.edu) for sample quotes, prices are reflective of memory and storage needs. 2016 Fees: Each server will be subject to OU IT charges of up to **\$64 per server, for (a) delivery and (b) asset retirement at end of life.**

3) The **OU Research Cloud** ("OURcloud"), which provides the equivalent of a physical server, but is virtualized for higher resiliency and maintained by IT professionals. The hardware (2 primary compute nodes, 1 disk storage for images, 1 for data storage and a network switch) is what powers OURcloud.

- Setup charge: \$43.54 one time, due upon setup
- Monthly base charge per virtual server: \$45.84 per month [Comes with 2.5 GB of disk space that's backed up nightly.]
- Monthly charge per GB RAM reserved: \$1.53 per GB RAM per month
- EXTREMELY BASIC setup and maintenance labor: INCLUDED
- Project-specific labor beyond EXTREMELY BASIC: \$50 per worker-hour
- Monthly charge per TB disk reserved: \$17.32 per TB disk per month [NEVER BACKED UP -- we recommend copying your files to archive.]

4) **Archive** (PetaStore): PetaStore tape cartridges: market price (Currently \$39.89 per LTO-6 tape cartridge, which has a raw capacity of 2.5 TB and a useable capacity of roughly 2.1 TB.)

Questions? Please contact [support@oscer.ou.edu](mailto:support@oscer.ou.edu) about questions on any OSCER services. For research engagement using the supercomputer, please contact Dr. Veronica McGowan, Phone: (405) 325-3071, Email: [Veronica.H.Mcgowan-1@ou.edu](mailto:Veronica.H.Mcgowan-1@ou.edu).

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