
Research Computing

High Performance Computing Support

The **Research Computing Support Group** at UTSA provides computing, storage and visualization resources to support research that has specialized or highly intensive computation, storage, and much more. Typical applications include statistics, data analysis, molecular modeling, scientific and engineering simulation and visualization. Vizlab space available for private research, class meetings, and workshops, through reservations.

- Contact OITConnect at **210-458-5555**
- Visit **hpcsupport.utsa.edu**
- or stop by the VizLab located at **MS 1.03.06N** phone: **210-458-8552** – hours of operation are **8am to 5pm M - F**.

Tours of the VizLab can be scheduled by contacting the OIT Research Computing Group at **RCISG@utsa.edu**

SHAMU

A centrally shared High Performance Compute (HPC) cluster comprised of:

- 80 physical servers.
- 371 CPU cores with 720 more coming this Fall.
- 16 TB of shared memory.
- 96 TB of shared disk storage.
- 2 Nvidia Tesla K80 GPU nodes.
- 1.5 TB RAM compute node.
- 8 nodes with 16 E5-2600v4 XEON cores and 384 Gb RAM.
- 1 node with 72 E7-8800v4 XEON cores and 1.5 Tb RAM.

VizWall

The VizWall is the lab's 14.4 feet wide and 6 feet tall visualization wall. It features:

- 24 high-definition 32" monitors.
- Maximum resolution of approximately 98 million pixels.

NEMO

NEMO is a high performance computational cluster for the Advanced Visualization Lab.

It consists of :

- 12 computational nodes, one head node, and a storage node.
- Dual Hex-core Intel Xeon X5660 2.80GHz processors (12M Cache) and dual nVIDIA Quadro FX 5800 graphics cards (4GB each)

85" 3D stereoscopic TV display.



Other Features Include:

Oculus Rift: The VizLab has 2 virtual reality headsets which use state-of-the-art displays and optics designed specifically for VR.

ZSpace: Interactive 3D teaching tablet that allows users to visualize, create and experience in ways beyond a traditional computer environment.

All resources listed are available to faculty and students at no cost.
