

Research Computing:

Idaho State University has High Performance Computing (HPC) resources available to faculty, staff, and students through the Office for Research. The primary system available to ISU users is the Lemhi super computer, located at the Idaho National Laboratory (INL) Collaborative Computing Center (C3) in Idaho Falls. This HPC system is made possible through the C3+3 partnership between Idaho's three public research universities (Idaho State University, Boise State University, and University of Idaho) and Idaho National Laboratory. Lemhi is a 504 node supercomputer with 20,160 CPU cores, 94.5 terabytes of memory, and a theoretical peak of 1.17 petaflops. Each compute node has dual Intel Xeon Gold 6148 20 core processors running at 2.4GHz and 192 gigabytes of RAM. Lemhi is also connected to a 1.2 petabyte Ceph storage cluster. Additionally, the Lemhi supercomputer has five GPU nodes, with the following specs:

Name	GPU Qty	GPU Type	GPU RAM	CPU Cores	RAM
node01	8	RTX A6000	48G	120	1024G
node02	7	Quadro RTX 8000	48G	40	512G
node03	4	L40	48G	64	512G
node04	4	RTX A6000	48G	64	512G
node05	3	RTX 4500 Ada	24G	32	512G

Idaho State University users also have access to a Research Data Storage system, Floe. Floe is a XFS storage server with 300 terabytes of usable space. The Floe storage system utilizes a hardware RAID in a RAID60 to ensure data integrity.