Center for Computation and Visualization

The Center for Computation and Visualization (CCV) strives to build and foster an environment that enables teaching, learning, research, and creative undertakings that involve and rely on the use and development of advanced computing and visualization technology. CCV provides high-performance computing, highly reliable research data storage, visualization resources, physical and virtual server hosting, high-performance backup and archival services, as well as outstanding collaborative scientific support to empower computational research, scholarship, creativity, and innovation for the entire Brown community.

The computing platform comprises a 700+ high performance computing node system, some with extra large memory and some with GPUs for accelerated computing, for a total core count of over 7,000, and peak performance of roughly 125 Teraflops. A GPFS parallel filesystem provides roughly 400 Terabytes of disk storage and 40 Gigabits per second Infiniband connectivity is used for all parallel applications messaging and I/O. The storage system is integrated with a 2 Petabyte Tivoli TSM backup/archival system. CCV also maintains a high end visualization lab with large scale immersive visualization capabilities. This includes a fully immersive 360 degree YURT, a 3-wall Cave system, and a multi-projector stereo flat display wall. Custom visualization solutions for software and hardware needs are available.

For additional information please visit the center's website at: http://www.ccv.brown.edu/.