SICE Facilities and IT Infrastructure

Synopsis

The School of Informatics, Computing, and Engineering maintains a highly distributed, heterogeneous, networked computing environment consisting of Linux, Windows, and Macintosh workstations and servers across 4 primary facilities (12 auxiliary). This includes over 400 Linux workstations/servers, over 500 Windows workstations/servers and over 200 Apple workstations/servers. There are 3 Linux clusters to support School research and 6 dedicated virtual machine servers are available to host VMs for both research and instruction. In addition, all members of the school have full access to the vast array of computing systems provided by the central IU IT organization, including the Big Red II Cluster (1020-node CPU/GPU cluster) and the Scholarly Data Archive (42PB of storage).

The network infrastructure at the School provides a minimum 1000Mbps gigabit ethernet connections to all workstations and all servers as well as 802.11a/b/g wireless connectivity. The facilities have multiple 1 and 10 gigabit connections with campus and research backbones which provides high-speed access to university and worldwide computing resources.

Special-purpose teaching and instructional labs are provided, including multiple electronic classrooms, hardware laboratories, and multiple linux and windows laboratories to support the course work for both undergraduate and graduate students. Multiple fabrication labs also provides 3D printers, laser cutters, and other fabrication tools to support research and instruction.

The School maintains 19 full time staff members dedicated to IT infrastructure and facilities with the mission of enabling world class research and instruction.