IBM Intelligent Cluster

- 88 iDataPlex servers (nodes) with Intel Xeon 5600 series processors
- Each node has 12 compute cores; a total of 1056 computer cores
- 4 GPUs
- 4 Management nodes
- Each node has 32 GB of memory
- 24 TB SAN storage
- 10GbE network connectivity within the cluster
- Red Hat Enterprise Linux (operating system)
- xCAT (Cluster management/provision software)
- Torque (Cluster resource management software)

Software

Union has licenses for many software applications that could be beneficial to a faculty member doing research. Some applications have the potential to run on the IBM Intelligent Cluster.

Examples of software available for the Cluster:
- MATLAB (licensed for 128 cores)
- Mathematica (licensed for 400-1000 cores)
- GCC (GNU Compiler Collection – includes C, C++, Fortran)

Other software available for faculty research:
- SAS
- SPSS
- SigmaStat/SigmaPlot
- ArcGIS

Other Support Available

Information Technology Services is working to provide other types of support for research computing initiatives at Union College.

We are able to provide virtual server space and training on server management as appropriate.

We are happy to work with faculty as they prepare grants to help identify hardware, software, and technologies that might be helpful.

Some seed money is available to help jumpstart a faculty member on research that might result in grant opportunities.

Interested in how ITS can help?

Want to learn more? Got projects coming up and think ITS might be able to help with your research computing needs?

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