



Expanded High Performance Computing at Wayne State

- insufficient resources to provide the compute power our researchers need
- cluster is aging with slow processors
- few nodes with large memory
- small number of older GPU cards
- usage is often saturated
- 190 TFLOPS, 98k CUDA Cores

- Acquire 6 nodes
- 24 3.2 GHz cores/node
- 64 GB RAM/core (1.5 TB RAM/node)
- 3 NVIDIA Tesla V100 GPU Cards/node
- Mix of cores/RAM/GPU driven by a nuclear physics project needs
- 24 TFLOPS, 92k CUDA Cores



- Computational Chemistry
- Membrane Biophysics
- Molecular Dynamics Simulations
- Modeling Complex Materials
- Critical Point in Nuclear Matter
- Probe the Quark Gluon Plasma with Jets

- <https://www.grid.wayne.edu>
- <http://jetscape.org>
- <http://chem.wayne.edu/schlegel/>
- <http://physics.wayne.edu/~cvkelly/>
- <https://s.wayne.edu/huang/>