Manycore working group

Coming attractions
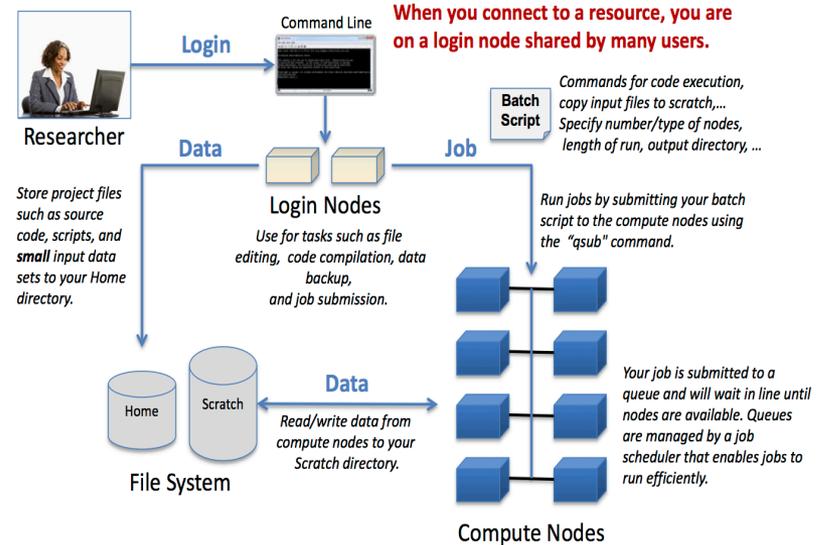
Blue Waters user documentation - review

programming

https://bluewaters.ncsa.illinois.edu/cuda

https://bluewaters.ncsa.illinois.edu/openacc

XK node job usage hints

https://bluewaters.ncsa.illinois.edu/accelerator-jobs-on-xk-nodes

Profiling

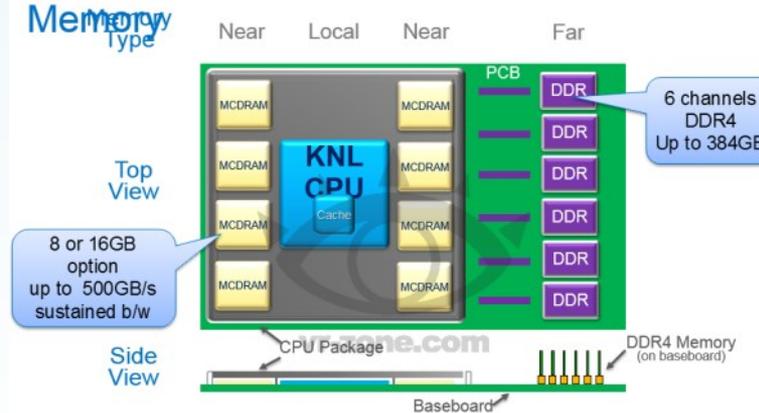https://bluewaters.ncsa.illinois.edu/openacc-and-cuda-profiling

Intel software

- [OpenMP 4.x support](#)

OpenMP* 4.0 adds new features for controlling vectorization and execution on coprocessors. Intel® [Visual] Fortran Composer XE 2013 Update 2 (compiler version 13.1) supports most of these new features. Most of them provide functionality to existing Intel-specific compiler directives.

Intel hardware

- NCSA staff under NDA so only public URLs presented
- Next Generation of PHI (Knights Landing)
  - http://en.wikipedia.org/wiki/Xeon_Phi#Knights_Landing
  - http://hothardware.com/News/Intels-Knights-Landing-Xeon-Phi-Will-Target-3TFLOPs-Offer-16GB-of-RAM/
  - http://www.realworldtech.com/knights-landing-details/