

Power9 server (hal000)

System Description

Host name: hal000.ncsa.illinois.edu

Hardware

- [IBM 8335-GTG AC922](#) server
 - 2x 20-core IBM POWER9 CPU @ 2.00 GHz
 - 512 GB DDR4
- 4x [NVIDIA V100](#) GPUs
 - 5120 cores
 - 16 GB HBM 2
- 2x 3.84 TB SSDs
- [Nallatech 250S+ CAPI 2.0](#) FPGA card
- ~~1.6 TB SSD NVMe Adapter~~
- 2-Port EDR 100 GB IB ConnectX-5 Adapter
- 4-port (10 Gb + 1 GbE) SR+RJ45 Adapter

Software

- RHEL 7.6
- CUDA 9.2
 - cuDNN 7.1
 - NCCL 2.2.13
- IBM XLC 13.1 beta
- IBM XLFORTRAN 15.1 beta
- [Advance toolchain for Linux on Power](#)
- [CAPI 2.0 - SNAP](#)



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