Nano cluster

System Description

Host name: nano.ncsa.illinois.edu

Hardware

- SuperMicro SYS-4028GR-TR
  - X10DRG-O+ CPU motherboard
  - 128 GB DDR4 (8x 16 GB Micron 2133 MHz 36ASF2G72PZ-2G1A2)
  - 8 PCI-E 3.0 ports, switched
  - Mellanox MT27500 Family [ConnectX-3] QDR IB
  - 1x 256 GB Samsung SSD 850

Software

- CentOS 7
- CUDA 9.2/10.0
- PGI 16.10
- Intel ICC 16
- gcc 4.8
- gcc 5.3 via 'scl enable devtoolset-4 bash'

To request access please fill out this form.

Instructions for running Jupyter Notebooks on compute nodes

Usage notes:

- nano (141.142.204.5) is the head node of the cluster, it should not be used for any computations!
- to connect to the cluster, ssh username@nano.ncsa.illinois.edu
- to get access to a particular node for interactive use, use qsub, e.g.,
  - to get one GPU and one CPU core on node 7 for 1 hour for interactive use:
    qsub -I -l nodes=nano7:ppn=1:gpus=1, walltime=3600
  - to get entire node 1 for 1 hour for exclusive interactive use:
    qsub -I -l nodes=nano1:ppn=12, walltime=3600

- better yet, do not allocate nodes for interactive use, instead just submit batch jobs, see for example Job Scripts section at https://kb.iu.edu/d/avmy
- interactive jobs are limited to 12 hours maximum walltime per job.
- batch jobs are limited to 96 hours
- submit request to staff for longer batch jobs (up to 240 hours)
- to see what’s running on the cluster, just run qstat

Contact us

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Application
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