THE FARM

WHAT IT IS AND HOW TO ACCESS

WHAT IS THE "FARM"?

- A High Performance Computing (HPC) Cluster for use by CAES

- For "free" access, there are 72 computer nodes (24 cores per node, 2 threads per core; 64GB RAM per node)

- For EntNem, 2 "HighMem" nodes (48 cores per node, 2 threads per core; 512GB and 1TB RAM)

- System runs Ubuntu 14.04 and wide variety of software already installed. Specific software can be installed by request

PRIORITY

- Low
  - Job will run, but can be killed at any time
  - Great for jobs with short run times

- Medium
  - Jobs might be suspended, but will resume

- ENTNEM
  - "Fair Share"

HOW TO SIGN UP – FREE ACCESS

- Go to: http://wiki.cse.ucdavis.edu/cgi-bin/index2.pl

- Cluster: Farm/CAES

- Sponsor: "Getchell" (email Adam Getchell – acgetchell@ucdavis.edu)

- Public Key
  - Windows requires Cygwin or PuTTY be installed
  - From terminal: ssh-keygen -t rsa
  - File to be uploaded will be in the hidden directory .ssh/id_rsa.pub

HOW TO SIGN UP - ENTNEM

- Go to: http://wiki.cse.ucdavis.edu/cgi-bin/index2.pl

- Cluster: Farm/CAES

- Sponsor: ENTNEM

- Public Key
  - Windows requires Cygwin or PuTTY be installed
  - From terminal: `ssh-keygen -t rsa`
  - File to be uploaded will be in the hidden directory `.ssh/id_rsa.pub`

CAVEATS

- Just because you have access to multiple nodes and cores, doesn't mean your program will use them

- Lots of memory and computing resources don't mean your program/scripts will run faster

- "Free access" storage is very limited

- ENTNEM has a large storage pool (22 TB), but data should be removed as soon as possible as a courtesy to other users

INFORMATION

- lists.ucdavis.edu:
  - hpc-seminar
  - plp-bioinformatics-users
  - entnem-bioinfo
- lists.cse.ucdavis.edu
  - farm-announce
- Help
  - help@cse.ucdavis.edu
  - itsupport@ucdavis.edu (for assistance signing up)
  - https://wiki.cse.ucdavis.edu/support/systems/farm

QUESTIONS?