Appendix 2

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Interactive Apps

Desktops

- Palmetto Desktop

GUIs

- Abaqus/CAE
- Matlab
- UGUI

Servers

- Code Server (VSCode)
- Containerized Jupyter Notebook
- Jupyter + Spark
- Jupyter Notebook
- RShiny App
- RStudio Server
- RStudio Server + Spark
- Workshop Pytorch Notebook

Jupyter Notebook

This app will launch a Jupyter Notebook server on one or more nodes with more advanced PBS resource request options. Users can also specify virtual/conda environments to launch custom notebooks for Tensorflow and other advanced libraries.

Anaconda Version

anaconda3/2022.05-gcc/9.5.0

List of modules to be loaded, separate by an empty space

cuda/11.1.1-gcc/9.5.0 cudnn/8.0.5.39-11.1-gcc/9.5.0-cu11

Provide a space-separated list of modules to be loaded.
- For example: **openjdk/11.0.2-gcc/8.3.1 jags/4.3.0-gcc/8.3.1**

Path to Python virtual/conda environment

source activate aue8930

Provide an activation command to load the corresponding Python virtual (venv) or conda environment. You can replace
NAME_OF_ENVIRONMENT
with a corresponding conda environment, or
PATH_TO_VIRTUAL_ENVIRONMENT
with a specific path to your venv environment directory.
- Example conda: **conda activate NAME_OF_ENVIRONMENT**
- Example venv: **source PATH_TO_VIRTUAL_ENVIRONMENT/bin/activate**

Notebook Workflow

Standard Jupyter Notebook

Number of resource chunks (select)

1

CPU cores per chunk (ncpus)

16

- Typical Palmetto compute nodes have **8, 12, 16, 20, 24, 28, 40, and 56** cores.
- DGX nodes have **128** cores.
- Bigmem nodes have **24, 32, 40, and 80** cores. - **Users can request any number of cores that is smaller than the number of available cores.**

Amount of memory per chunk (mem)

32gb

- Typical Palmetto compute nodes have **15gb, 30gb, 46gb, 62gb, 125gb, 372gb, 748gb, and 990gb** of memory.
- DGX nodes have **990gb** of memory.
- Bigmem nodes have **500gb and 750gb** and **1tb and 1.5tb** of memory.

Number of GPUs per chunk (ngpus)

2

GPU Model (gpu_model)

V100

Interconnect

100g - Ethernet phase 18 and above

Extra PBS resource allocation request

- Enter the additional resource request just like how you would in a command line environment.
- Each request should start with a colon **:** sign.
- For example: **:chip_type=e5-2665**

Walltime

08:00:00

- Walltime format is **hh:mm:ss**.
- Phase 1 through 6 nodes can be reserved up to 336 hours.
- Phase 7 through 27 nodes can be reserved up to 72 hours.

Queue

work1

Queue to submit the job to

Absolute path to working directory

Select your project directory; defaults to $HOME

I would like to receive an email when the session starts

Launch

* The Jupyter Notebook session data for this session can be accessed under the data root directory.