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1  Script for WRF Real-data workflow demonstration
2  ATM419/563 Fall 2024
3
4  This demo runs the WRF/WPS system end-to-end on the Albany batch system
5  via a Jupyter notebook, executed via ARCC's Jupyterlab service
6
7  * ----- preliminaries ----- *
8  * move to your lab space
9      $ lab
10
11 * make a directory in your lab space called DEMO, and move into it
12     $ mkdir DEMO
13     $ cd DEMO
14
15 * copy notebook to your DEMO directory [the space and dot are important]
16     $ cp $LAB/DEMO_batch/run_WRF_DEMO_batch.ipynb .
17
18 * ----- jupyter notebook ----- *
19
20 * from your web browser, go to this link:
21     https://jupyterlab.its.albany.edu/
22
23     → if presented with a drop-down menu, select "Daes-burst – 8 cores,
24 128GB, 8 hours" or "batch 12 cores, 16GB, 8 hours". See lines 39-43 below.
25
26 * you will likely be starting in your home directory. If so:
27     → click the LAB link
28     → click on DEMO folder
29     → launch run_WRF_DEMO_batch.ipynb
30
31 * if you see this error, you can either ignore it or run 1st cell again:
32
33 ERROR 1: PROJ: proj_create_from_database: Open of
34 /network/rit/lab/snowclus/anaconda3_2021/envs/nov22/share/proj failed
35
36 • remember to go to File menu and select Close and Halt to finish demo
37
38 If you need to reinitialize your Jupyterlab server, do this:
39     Go to File menu > Hub Control Panel
40     On the page that opens, select Stop My Server
41     Then close your windows and log into https://jupyterlab.its.albany.edu/
42 again

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