## LA-UR-21-23115

This README serves the SC 2021 Reproducibility Initiative goals. This recreates figures 1-7 and table 2 in the paper. Another README covers the Batsim simulation results.

There are essentially two steps:

- 1. Setup a python virtual environment with only the packages needed by this notebook.
- 2. Execute the notebook at the command line, producing all figures in PNG and PDF form.

Note that the notebook (.ipynb) can be inspected to understand the functions. A snapshot of this is also provided in HTML for easier viewing.

• STEP 1 - ENVIRONMENT SETUP - RUN THESE COMMANDS:

python3 -m venv sc-2021-ccu-lanl-statistics
source ./sc-2021-ccu-lanl-statistics/bin/activate
pip install --upgrade pip
pip install ipykernel
source ./sc-2021-ccu-lanl-statistics/bin/activate
ipython kernel install --sys-prefix --name=sc-2021-ccu-lanl-statistics
pip install jupyter scipy matplotlib pandas seaborn

• STEP 2 - EXECUTE NOTEBOOK - GENERATE PLOTS - RUN THIS COMMAND: ipython --TerminalIPythonApp.file to run=./sc-2021-ccu-lanl-statistics paper functions.ipynb