HPC Access & Pypsa Install Instructions

From Alexander Kies on 2024-10-23 11:41

Details Headers Plain text

Hej Kristoffer,

If you find the time you could check if you have computing resources already available on the central computing cluster:

For this purpose, you log into cloud.sdu.dk

For me, the starting screen looks like this, so have around 14k computing hours at the moment available.

I also made a brief video how to install and launch pypsa in a shell or jupyter notebook on this infrastructure:
https://drive.google.com/drive/folders/1Km4GwP7PTodHg6AgKUW4DoU_upCVr9pD

But first you should check out if you have access, if you already have resources allocated there and make yourself a little familiar with this cloud environment.

An recent overview of some methods to explore the solution space is also here: https://iopscience.iop.org/article/10.1088/2753-3751/ad7d10

It might also be interesting in the context of your thesis to apply the concepts on multi-step investment problems. E.g. where a European power system is served for different multi-year time steps, e.g. 2020-2030-2040-2050 respecting the solution from the previous timestep.

Best
Alex