

Meetings weekly on Tuesdays at 2 pm (in person or webcam)

Also, devel meeting on Tuesdays at 4 pm (in lab)

1) General: read about MAPI

2) { What is NPD?
look at past students work (Mattes will send me the link)
look at existing NPD libraries
use them smartly (change something)

3) { What is a container? (Docker alongside Singularity)
Can we execute the container?
How do I install a container?
How do I run it?
HARD PART: Container Networking

George, was great to chat with you today.

To recap, we discussed:

- Hyperparameter optimization (HPO) and working towards an implementation with RADICAL-Cybertools.
- Getting started with containers with the ultimate goal of executing containerized MPI applications on HPC machines (clusters).

George agreed to do some background reading about HPO, and to start to play with 'containers' and RADICAL-EnTK. He will start from the basics as he has no prior knowledge about HPO, containers and RCT.

For the first phase of his studies, the stated goals are understanding:

- What is HPO (please see the references Shantenu's already shared and https://docs.google.com/presentation/d/1uq1qGllT6M6yjPr95_L2zVhMH2bxdfN6VFOC1uXaqOY/edit#slide=id.g40d72d031b_0_0 for some work done in our group about HPO)
- From an engineering perspective, what are the general purpose and domain specific elements of HPO.
- Why, what, how of containers
- What are the main differences between docker and singularity
- How to create, install and use a container, including understanding how networking works for containers
- How to install EnTK on two.radical-project and run a stock example with it.

We agreed to briefly meet weekly until George's work takes off. Friday, during Andre's office hours would be a good time to synch also with Andre.