# Cluster

* Change the repo path in ~/.condarc to point to a subdirectory in home.
* Create new environment conda create -n myenv python=3.8
* Activate conda with conda activate myenv
  + [optional] reset conda env conda install --revision 0
* Check cuda version: nvcc –version -> 10.1
  + nvidia-smi
* Install packages
  + conda install pytorch torchvision torchaudio pytorch-cuda=11.7 -c pytorch -c nvidia
  + conda install pytorch==1.12.1 torchvision==0.13.1 torchaudio==0.12.1 cudatoolkit=10.2 -c pytorch

# Performance Measurements

Single Core Training Data Generation: 130s, 111s

Parallelized Generation: 31, 26

Train Network: 15s, 25

Network Evaluation: 23s, 36

# Possible improvements

* Use exact nr of available clusters and multiply iterations on them
* Reduce nr of train examples history