**The use of NSCC**

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**Read this if you are a complete beginner:**

[nscc\_experience\_n\_manual\_by\_zpz](https://docs.google.com/presentation/d/1zjmUFamSmFMDpnnStnYRBtyu4wZzVi1eYVnNJwY1JHQ/edit?usp=sharing)

**How to install kaldi or espnet on NSCC:**

[How to install espnet on NSCC](https://docs.google.com/presentation/d/1e_YD_m_kukT9YUEli6tT9i87-swyIT6A9-0sy53Ela0/edit?usp=sharing)

[How to compile kaldi & kaldi-dgx in NSCC](https://docs.google.com/document/d/1PYnh6sXkbzJngAKnQatHraK_5iwSprX2dYCaYGzbhJU/edit?usp=sharing)

PS: Since both Kaldi and ESPnet are constantly being updated, an installation is required to use the newer technology.

The biggest issue on the NSCC is the environment. If you're just using PyTorch or TensorFlow, you'll need to install the libraries that your code depends on. Python libraries can be installed directly with Anaconda, but if you need the APT Manager to install development libraries, You will encounter the problem of installing without permission. Maybe you need to try out source installations such as SoX, Perl.

**Some Resource:**

I am using Dr. Xu Haihua's account, so all the resources are in his directory.

**Data**:

NSCC:/home/projects/12001458/haihuaxu/raw\_data

I migrated some of the speech data set from the Cluster. If you need to use it on NSCC you can use it directly.

**Kaldi**:

/home/projects/12001458/haihuaxu/kaldi or

/home/projects/12001458/haihuaxu/w2021/kaldi

**ESPNet**:

/home/projects/12001458/haihuaxu/espnet

/home/projects/12001458/haihuaxu/w2021/espnet

**Cuda**:

In the past, when using CUDA, we used the platform provided CUDA. However, due to some environmental issues, I had to install a newer CUDA and associated dependencies. CUDA here can be an option for you.

/home/projects/12001458/haihuaxu/cuda-10.1

/home/projects/12001458/haihuaxu/cuda-10.2

**path.sh**:

kaldi path.sh, It can automatically select Kaldi for different platforms based on the node.

/home/projects/12001458/haihuaxu/w2021/nscc-scripts/path.sh

/home/projects/12001458/haihuaxu/w2021/nscc-scripts/path\_to\_install\_espnet.sh

**Example of submit script:**

/home/projects/12001458/haihuaxu/w2021/nscc-scripts/submit\_scripts.sh

**Parallel Scripts:** (e.g. run.pl, queue.pl ...)

/home/projects/12001458/haihuaxu/w2021/nscc-scripts/utils/mpi.pl

/home/projects/12001458/haihuaxu/w2021/nscc-scripts/utils/mpirun-testing.py