**Installation tutorial of MLIP and MLIP-LAMMPS-interface**

**(follow the instructions at https://gitlab.com/ashapeev/mlip-2-tutorials/-/wikis/home)**

**Install MLIP**

**1.Download MLIP**

**git clone https://gitlab.com/ashapeev/mlip-2.git**

**2.compile MLIP**

**./configure**

**make mlp**

**Install MLIP-LAMMPS-interface (include LAMMPS)**

1. **Download MLIP-LAMMPS-interface**

**git clone https://gitlab.com/ashapeev/interface-lammps-mlip-2.git**

1. **Download LAMMPS**
2. **git clone -b stable https://github.com/lammps/lammps.git mylammps**
3. **Place LAMMPS in the same folder as interface-lammps-mlip-2**
4. **Go to the folder mlip-2，and make lib\_mlip\_interface.a**

**make libinterface**

1. **Go to folder lib, and move the file lib\_mlip\_interface.a to the folder interface lammps-mlip-2**
2. **Load module**

**module purge**

**module load gcc**

**module load fftw/3.3.8**

**module load openmpi/3.1.6**

**(If use ParaCloud，load module load mpi/intel/20.0.4)**

1. **Go to the folder interface-lammps-mlip-2，and make lammps**

**./install.sh ../mylammps mpi**

**（If use ParaCloud，./install.sh ../mylammps intel\_cpu\_intelmpi）**