Different versions on the same machine:
lammps@12.1.0
lammps@12.1.0+cuda
lammps@12.1.0+mpi
lammps@12.1.0+cuda+mpi

lammps@12.2.1
lammps@12.2.1+cuda
lammps@12.2.1+mpi
lammps@12.2.1+cuda+mpi

lammps@12.1.0%gcc (loaded)
lammps@12.1.0%gcc@8.3.0
lammps@12.1.0%intel   (loaded)
lammps@12.1.0%intel@2023.0.0

@ = version name
% = compiler
+ = dependencies
~ = remove default dependencies

lammps@12.1.0%gcc@8.3.0~mpi

spack installation steps:
git clone https://github.com/spack/spack.git
cd spack
source /home/cdacapps01/himanshu/spack/share/spack/setup-env.sh
spack --version
spack list
spack list | grep hpctoolkit

spack find (get list of installed packages using spack)

spack info hpctoolkit (get info about specific package in spack)

spack spec -I hpctoolkit

spack install -v -j40 hpctoolkit
spack install -v -j40 hpctoolkit+cuda

spack load hpctoolkit

spack install -v -j40 gcc@8.3.0

On shavak: to load already installed spack and applications from root account
source /home/apps/spack/share/spack/setup-env.sh
spack find hpctoolkit
spack load hpctoolkit@2021.10.15