

<Lorentz>

1. PCS 2nd GPU Server (in 2019)

2. IP address: 203.247.189.174

3. Specification

- GPU: Four TITAN RTX GPU cards

(TU102 GPU, each GPU is 4,608 CUDA cores)

Thus, we have 18,432 cuda cores

- CPU: intel xeon gold 5217, 11M Cache, 3.0 GHz, 8 Cores * 2EA

Total 16 CPU cores

- Memory: 128 GB (32GB*4)

- OS: Ubuntu 18.04

- Disk information: 2.4 TB storage

4. How to access and use

You can access to lorentz by the command as below.

\$ ssh -XCY -p 4022 username@lorentz.ibs.re.kr

Applications installed is as below.

```
# LaTeX (including xdv)
# julia 1.6.3
# Mathematica 11.0
# Matlab R2017b
# xmgrace
# gcc 7.4.0
# gnuplot
# gsl
# emacs
# p7zip
# ATLAS
# inkscape (libgc)
# Quantum espresso
# gl2ps
# llvm
# clang
# hdf5
# most
# more
# less
# CUDA
# PGI fortran server
# htop
# armadillo
# Fortran libraries : LAPACK, BLAS, blacs, scalapack
## intel mpi
## intel mkl
## intel ifort
## openmp
# pip 22.0.3 from /usr/local/lib/python3.8/site-packages/pip (python 3.8)
# R, rpy2==2.8.6, GBL
# idle
```