

<Boltzmann>

1. High performance desktop for Sergej's team (in 2016)
2. IP address: 203.247.189.165
3. Specification
 - CPU: Intel Xeon E5-2650 v4, 30 M Cache, 2.20 GHz, 12 Cores * 2 EATotal 24 CPU Cores
 - Memory: 512GB DDR4
 - OS: Ubuntu 20.04
 - Disk information: 48 TB storage
4. How to access and use

You can access to boltzmann by the command as below.

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

Applications installed are as below.

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----- Installed Programs or Libraries -----
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LaTeX (including xdvi), texmaker-4.4.1, xmgrace, gnuplot,
thunderbird (for e-mail), lapack, kwrite, leafpad, gimp, tcsh,
ncdu, nano, libre, perl6, most, more, less, clang, geany1.27,
gsl-2.1, emacs, htop, openblas-0.2.18, atlas, lyx-2.1.4,
zathura, sshfs, libgmp-devel, readline-devel, ncurses-devel,
cmus, xournal, owncloud, octave, cgdb, feh, Julia 0.5.1, fftw,
valgrind, armadillo-7.5, Intel-mkl, cmake-3.7.2, gcc 5.4.0, mpirun (openMPI) 1.10.2
```

MATLAB R2017b, Mathematica 11.0

Python 3.6.9 3.7.9 3.8.9 3.9.6 (2022-05-25 update)

```
ex> module av && module load python/3.6.9, python/3.7.9, python/3.8.9, python/3.9.6
```

```
ex> module swap python/3.9.6 python/3.8.9
```

```
ex> module purge && module load python/3.7.9
```

```
$ module load python/3.9.6
```

```
$ pip3 -V
```

```
pip 22.1.1 from /opt/python3/3.9.6/lib/python3.9/site-packages/pip (python 3.9)
```

```
$ pip3 list
```

Package	Version
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cvxopt	1.3.0
cycler	0.11.0
Cython	0.29.30
fonttools	4.33.3

gsl	0.0.3
h5py	3.7.0
kiwisolver	1.4.2
kwant	1.4.3
matplotlib	3.5.2
mpmath	1.2.1
networkx	2.8.2
numpy	1.22.4
packaging	21.3
Pillow	9.1.1
pip	22.1.1
pyparsing	3.0.9
python-dateutil	2.8.2
qutip	4.7.0
scipy	1.8.1
setuptools	56.0.0
six	1.16.0
sympy	1.10.1
tinyarray	1.2.4
