PERFORMANCE-ORIENTED COMPUTING

Extra – Information on LCC3

OVERVIEW

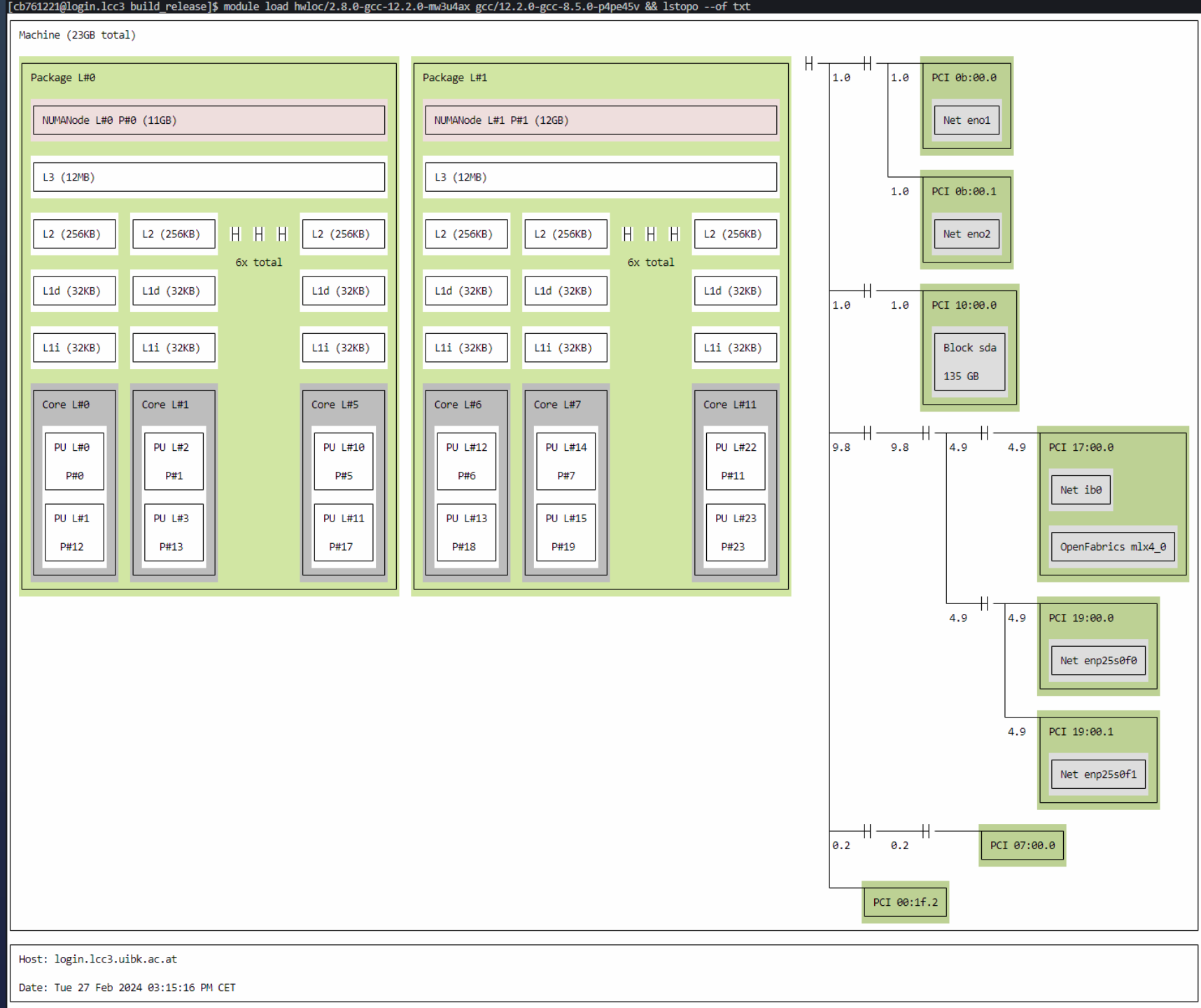
*In order to **eliminate hardware differences as a factor**, you'll generally be asked to perform your measurements / analysis / optimization **on the LCC3 cluster** in addition to your own hardware.*

In this small overview, we'll discuss the following:

- **Basic Information**
- **Usage**
- **Important Guidelines**
- **Accounts**

BASIC LCC3 CLUSTER INFORMATION

- LCC3 is compute cluster at UIBK **specifically for teaching use**
- It consists of some rather old nodes, but that's irrelevant for our purposes
- What's important is that they **are all the same**!



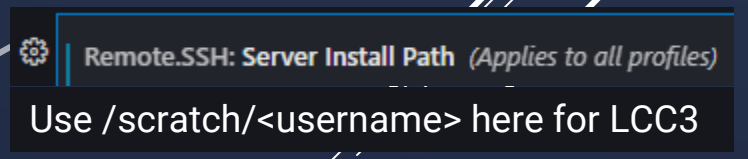
USAGE

- To run benchmarks on the cluster, you need to submit them using the **Slurm** system (https://slurm.schedmd.com/documentation.html)
  - Using either `sbatch` or `srun`
- You can find some helper scripts in the VU repo, in `lcc3_helpers/`
- Note that LCC3 is only available from within the UIBK network
  - You need to use VPN to work on it from remote locations

IMPORTANT GUIDELINES

Since LCC3 is a **shared system**, there are some important rules you must follow when using it:

- Do **not run any significant workload on the login** / head node
- Keep you individual **job durations low**; if you need to perform lots of benchmarks, run them as individual jobs
- Ensure that you aren't unnecessarily occupying nodes with e.g. hung or stuck runs
- Storage space in $HOME is limited - use $SCRATCH for large but ephemeral data (such as the VSCode Server Install Path)



ACCOUNTS

- Everyone will get an individual account now
  - Later on, during group exercises, you can use the account of any group member
- Please **change the password right away** after receiving your account
  - Don’t let me log into anyone’s account with the starting password tomorrow, otherwise I will be quite distraught

QUESTIONS ?