

Kennesaw State University

Parallel and Distributed Computing

Project – Get to know your machine

Please write a report of hardware specification for your Linux VM (at local or KSU cloud). The hardware information should include:

- CPU clock rate
- Number of CPU cores
- Number of Sockets
- Number of NUMA nodes
- CPU model name
- CPU topology
- L1, L2, L3 cache size
- Memory size
- Current free memory
- Disk size
- Current utilization of the hard disk
- Network IP address
- Current Operating System name and version (open question)
- Current OS kernel version (open question)
- Machine host name (open question)

In your report, please also select the benchmarks to measure hardware specification for your VM. You can use any benchmarks you can find on the internet. The hardware information should include:

- CPU compressing or decompressing speed (using 7-Zip, you can compare it with Apple A12Z chip: <https://www.7-cpu.com/>)
- Memory bandwidth or speed
- Disk read speed
- Disk write speed
- Network latency to the google server
- Network throughput

Submission

Submit your assignment pdf file named **"Firstname_Lastname_Hardware.pdf"** through D2L using the appropriate link. Please submit the **a report describe the details of your machine and the benchmarks and commands you are using.**