

ECE574: Cluster Computing – Homework 1

Due: Thursday 28 January 2021, beginning of class

Please e-mail the answers to the questions below to me.

Also be prepared to share the results of the homework in class on Thursday.

First, if possible, watch the first 10 minutes or so of this video.

<https://www.youtube.com/watch?v=Jk59mVlOJqI>

You can watch more if you want, but it is a bit long.

Next, go to the Top500 Supercomputer site www.top500.org, find the November 2020 list, and research the background of supercomputer in the slot number specified in the e-mail I sent.

Report the:

1. Location (Country)
2. Processor Architecture (x86/power/ARM/etc)
3. Processor Type
4. Total number of Cores
5. RMax/RPeak
6. Power Consumption
7. Any accelerators (GPUs, XeonPhi, etc)
8. Any interesting info you can find on this machine (use sources other than top500.org)