Homework 8

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Part 6

Part a

Part b

Part c

Part d

In our energy adaption strategy we divided the CPU usage to intervals and based on the interval which CPU usage is inside we will either decrease or increase CPU frequency.

If the usage is very low, then we will turn off that core to save more energy. We run the adaptation algorithm every 15 seconds and change the CPU frequencies accordingly.

If the usage is very high and we have a CPU turned off, then we will turn on some CPUs to increase the performance.

Part e

You can see the energy saving in the chart compared to the one without energy saving.

Part f