



Task Performed Last week

- 1.) logged core temperature with cpu load and room temperature.
- 2.) Find a model to correlate the core temperature with cpu load . Collected the data for room temperature and the cpu load with load as constant.
- 3.) Find the relation between room temperature and core temp



Model used

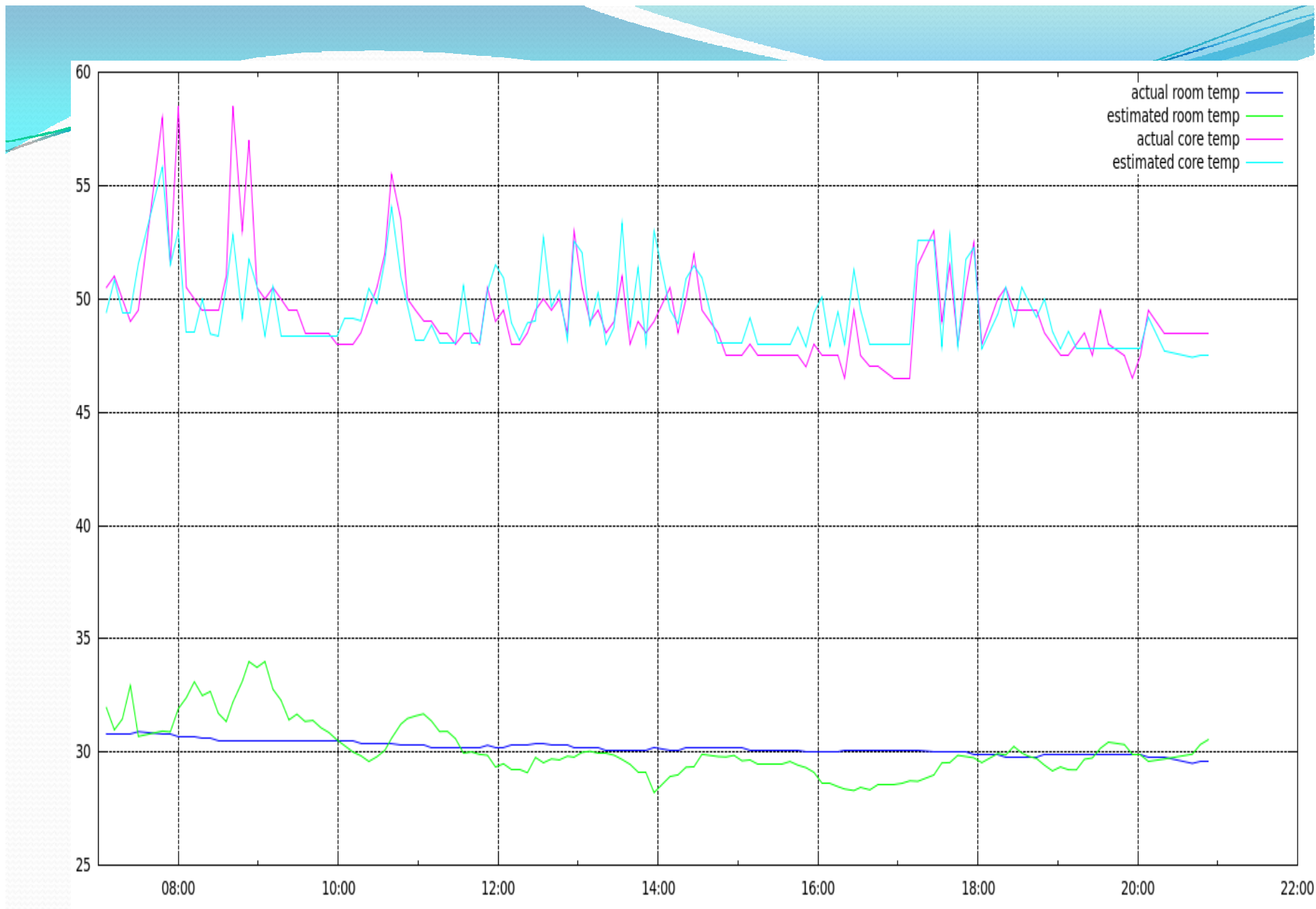
Estimated Room Temperature

$$=(\text{core_temp}-0.493 * (\text{Tmax}-(\text{Tmax}-\text{Tmin})*\text{EXP}(-0.01*\text{coreload}))))/0.939$$

Where Tmax is the maximum cpu saturated Temperature and Tmin is the minimum cpu saturated temperature.

In this case Tmax=63 degree C and Tmin =43 degree C

Here we are take the average of last five reading of room temperature.



Estimated room temperature and core temp



Task to be performed next week

- 1.) Taking the log of room temperature and core temperature with varying the cpu load.
- 2.) Finding a more accurate model to correlate all the variables(cpu load, cpu temp and room temp)
- 3.) Finally prepare the model for calculating the room temperature from cpu load.