CS 6210 : Advanced Operating Systems

(https://www.omscs.gatech.edu/cs-6210-advanced-operating-systems)

Project 1

This project is to implement a vCPU scheduler (which assigns the best pCPU to each vCPU, based on fairness) and a memory coordinator to dynamically manage the resources assigned to each guest machine.

The vCPU scheduler should track each guest machine's vCpu utilization, and decide how to pin them to pCpus, so that all pCpus are "balanced", where every pCpu handles similar amount of workload.

Flow chart from project description