Assignment 01 Parallel + Distributed Computing Code Snippel: (For CPU1 only) for (int k=0; k<3; k++) { response dear () for (int i = 0; i < ProcQueue . sizel); i++) { CPV1. loadhocers (ProcQuene. get (i), 1); E Dispatchee CPU1 emprocess RR(HQ); CPUL. junProcess RR(LQ); CPU1. un Process HPN(); CPU1. un Process FCFS(); angs. clear(); for (int i=0; icclu1. Process Al. size); i++) Stats.add (CPU1.stats.get(i)); angs = Stats Gen (stats, response Time, content Switches, tuen Around, want Time response Time = angs. get (0); content switches = avgs. get (1); turnAround = angs, get (2); wait Time = args gel (3);

graph start (response, "1 CPV response");
graph start (content, "1 CPV content switches");
graph start (so then Around, "1 CPV wait");
graph start (wait, "1 CPV wait");

## Explanation:

Dispatcher is a component of schedular which takes process to CPV. In This example, 100 processes are divided among CPVI, CPV2, CPV3 and CPVII (processors). In first three graphs only CPVI is working with 100 processes. In next three graphs, CPVI and CPV2 are working with SO processes each. Graphs show CPV response, CPV true Around and CPV wait. Craphs show CPV response, CPV true Around and CPV wait. Basically, this example calculates average response, true Around and wait times for all CPVs. Algaithms that are used by Scheduler are Round Robin and First Come first Serve.

Graphs are plotted on the basis of response, then Around and wait these averages.

Code of dispatcher: CPVI. Load Process (Proc Queue. get (i), 1)

(Graphs, console output, mbole code screenshots are