#### CPU bound processes

## Bench mark A:

- We observe that total cpu time is similar for all the processes. We observe that preempt2 is always 0 since no I/O bound process to preempt them.
- We observe that response time is very large compared to that of I/O bound processes

```
I'm K MEHER HASANTH and my username is kmeherha.
Test process running code in my hellow:
Cpubound id: 5
,totcpu: 1271
,usercpu: 1307
,resptime: 13593
,maxresptime: 10185
,contextswitches: 13
,preempt1: 13
,preempt2: 0
Cpubound id: 6
,totcpu: 1271
,usercpu: 1240
,resptime: 13861
,maxresptime: 10266
,contextswitches: 13
,preempt1: 13
,preempt2: 0
Cpubound id: 7
,totcpu: 1271
usercpu: 1240
,resptime: 14115
,maxresptime: 10278
,contextswitches
Cpubound id: 8
,totcpu: 1271
usercpu: 1240
,resptime: 14368
,maxresptime: 10288
,contextswitches: 13
,preempt1: 13
,preempt2: 0
Cpubound id: 9
,totcpu: 1271
,usercpu: 1240
,resptime: 14622
,maxresptime: 10300
,contextswitches: 13
,preempt1: 13
,preempt2: 0
Cpubound id: 10
,totcpu: 1271
,usercpu: 1240
```

# **IO** bound processes

## Bench mark B:

• We observe that for benchmark B IO bound process has similar total cpu and usercpu time they have preemt2 >0.

```
Tim MEHER HASANTH and my scename is kneiherhy.

Test process running code in my hellow:

Isbound id 6

Jotopy 4198

Jescrypt 4981

Jescrypt 4982

Jescrypt 4
```

## **Benchmark C**

When mixture of both CPU bound and IO bound processes are spanned together. We observe that response time of CPU bound process is much greater than IO bound processes.

```
iobound id: 10
,totcpu: 5419
,usercpu: 5265
,resptime: 242
,maxresptime: 1108
,contextswitches: 47
,preempt1: 10
,preempt2: 14

Cpubound id: 7
,totcpu: 543
,usercpu: 532
,resptime: 13930
,maxresptime: 10645
,contextswitches: 11
,preempt1: 11
,preempt2: 5
```

#### Bench Mark D

We would observe that no CPU bound process gets to run and starvation occurs