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CS 446

1) when running a program with 8 CPUs and 8 Threads I saw that the CPU usage was close to 100% and maximum latencies was similar across all of them.

2)

```
sudo chrt -p -r 1 12435
```

I observed less switching

```
sudo chrt -p -r 2 12435
```

ran faster than priority 1 and there also was more switches

```
sudo chrt -p -f 1 12435
```

There was more switches then round robing made it run faster

```
sudo chrt -p -f 2 12435
```

Higer priority made it run faster then 1

3)

```
sudo cset set -c 0-6 system
```

```
sudo cset set -c 7 dedicated
```

```
sudo cset proc -m -f root -t system
```

```
sudo cset proc -k -f root -t system
```

```
sudo cset proc -m -p 22133 -t dedicated
```

There was less latency on CPU 7 do to workload being placed on all other CPUs

4)

```
watch -n.5 grep ctxt /proc/25095/status
```

```
sudo chrt -p -r 1 22133
```

```
sudo chrt -p -r 2 22133
```

Priority 2 has more switching and runs faster then priority 1.