Performance\_A=1.5 Performance\_B

P\_A/P\_B=Execution\_B/Execution\_A=1.5

Execution\_B=1.5\*Execution\_A=1.5\*20seconds=30 seconds

1. CPU Exe time=user CPU+Sys CPU time

CPU Execution time=clock cycles/clock rate

CPU Execution time(B)=clock cycles(B)/clock rate(B)

20 sec=clock cycle(B)/1.2 GHz

Clock cycle(B)=24GHz cycles

CPU Execution time(A)=clock cycles(A)/clock rate(A)

= 2\*24\*10^9/2\*10^9

24 seconds

User CPU time(A)=25% of 24=6 seconds

Different way to increase throughput and response time are

1. Increase RAM size of computer A
2. Increase speed of network between A and B
3. Add extra network channels between A and B
4. Increase clock rate of A and B
5. Load few number of program at Comp A