

CPU PERFORMANCE

```
#include <stdio.h>

int main()
{
    float cr;
    int p,p1,i;
    float cpu[5];
    float cpi,ct,max;
    int n=1000;
    for(i=0;i<=4;i++)
    {
        cpu[5]=0;
    }
    printf("\n Enter the number of processors:");
    scanf("%d",&p);
    p1=p;
    for(i=0;i<p;i++)
    {
        printf("\n Enter the Cycles per Instrcuton of processor:");
        scanf("%f",&cpi);
        printf("\n Enter the clockrate in GHz:");
        scanf("%f",&cr);
        ct=1000*cpi/cr;
        printf("The CPU time is: %f",ct);
        cpu[i]=ct;
    }
    max=cpu[0];
    //printf("%f", max);
    for(i=0;i<p1;i++)
    {
        if(cpu[i]<=max)
```

```

    max=cpu[i];
}
printf("\n The processor has lowest Execution time is: %f ", max);

return 0;
}

```

Output

```

C:\Users\heman\Desktop\con x + v

Enter the number of processors:3

Enter the Cycles per Instrcution of processor:1.5

Enter the clockrate in GHz:3
The CPU time is: 500.000000
Enter the Cycles per Instrcution of processor:1

Enter the clockrate in GHz:2.2
The CPU time is: 454.545441
Enter the Cycles per Instrcution of processor:2

Enter the clockrate in GHz:4
The CPU time is: 500.000000
The processor has lowest Execution time is: 454.545441
-----
Process exited after 43.98 seconds with return value 0
Press any key to continue . . . |

```