CPU PERFORMANCE

PROGRAM:

|  |
| --- |
| #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 Instrcution 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:

Enter the number of processors:4

Enter the Cycles per Instrcution of processor:3

Enter the clockrate in GHz:2

The CPU time is: 1500.000000

Enter the Cycles per Instrcution of processor:2

Enter the clockrate in GHz:3

The CPU time is: 666.666687

Enter the Cycles per Instrcution of processor:4

Enter the clockrate in GHz:3

The CPU time is: 1333.333374

Enter the Cycles per Instrcution of processor:2

Enter the clockrate in GHz:3

The CPU time is: 666.666687

The processor has lowest Execution time is: 666.666687

--------------------------------

Process exited after 18.38 seconds with return value 0

Press any key to continue . . .