	classmate	R
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Experiment -2

O) Assume internal clack frequency of the vot

CPU OS IDMH, calculate manually

time regimed to transfer FFFFH byles

to cull the cases mentioned in a by and

Calvave

As the given frequency is 10m+12. So we can calculate the time period for one single T state:

time period = 1/b - 1/10 = 0-1 sec

So, as we know generally the size of

Mov expression / instruction is of

1b lits ie 2 lyter and we need 2

machine cycles 3 T slate

So time required to execute more instruction

is 7 + 0-1 sec = 0-7 sects

As more instruction transfers 2 legter of a Time so we need total of data 12 instructions i c FFFF H12 instruction to transfer the data

So total time regimed to transfer the data is (FFFF H | 2) * 0.7 = 22936 seconds

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so if we compare the cases of a, b & c we can conclude that the time requirement is near by same if we ignore the time requirement for special instructions like string