

CS & IT ENGINEERING



Basics of Computer System

Various Terminologies

Lecture No.- 07

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Recap of Previous Lecture



Topic

Power of 2

Topic

Units of Time

Topic

Unit Conversion



Topics to be Covered



Topic

CPU Cycle

Topic

Memory Cycle

Topic

Memory Access Time



CPU Cycle

In one cycle CPU can perform one operation.

Memory Cycle

In one memory cycle, memory can perform one operation.
↓
read or write

Memory Access Time

Time required to read or write one content in a memory.

Throughput

⇒ No. of operations performed in one unit time

if t unit time required to perform n operations

In 1 —||—, no. of operations = $\frac{n}{t}$ ← throughput

Speedup or Performance Gain

Used to compare 2 machines
or
techniques
or
softwares
or
hardwares } which perform same task

performance gain of technique 2, as compared to technique 1 = $\frac{\text{technique 1 time}}{\text{technique 2 time}}$



2 mins Summary



Topic

CPU Cycle

Topic

Memory Cycle

Topic

Memory Access Time



Happy Learning

THANK - YOU