Parallel Processing

4 Organization:

· Single Instruction, Single Data (SISD)

single processor execute single ins.

to operate an data in single imosy

· Single Instruction, Multiple Doug (SIMD)

single instruction control multiple

execution of processing element

· Multiple instruction, single Data (MISD)

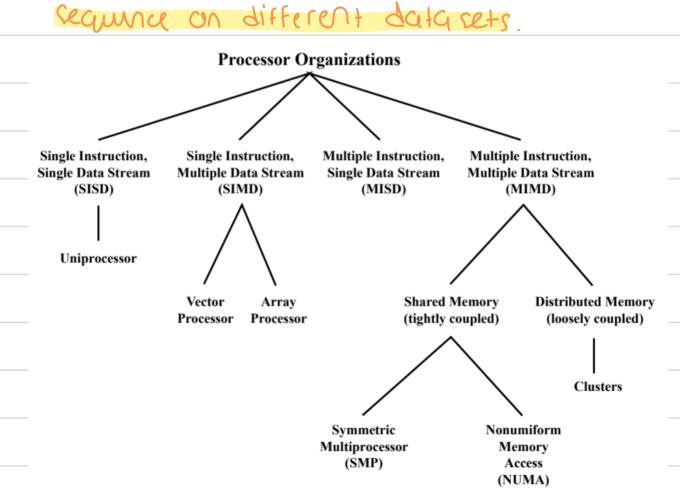
Sequence at data transmitted to a set of

processors which execute different

data stream

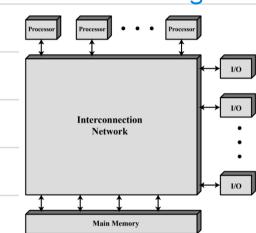
· Multiple Instruction, multiple Data (MIMD)

set of processors executes differt ins.



MIMD

4 Shared Memory



4 Single Multiprocessor

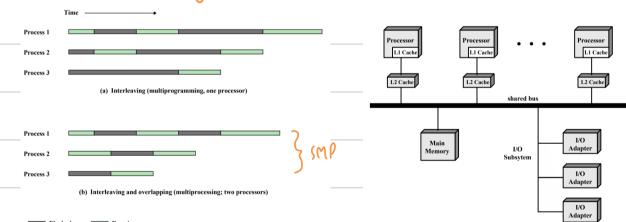
4. 2+ processor of similial capacity

· Processors share same munary & I/O facilities

· all processors have acces to IIO devices

· all processors can perform some function

· controlled by integrated Os



L Bus organization has:

· Simplicity
simplist apploach

· Flexibility

can add more processar

· Reliability
doesn't cauce absolute failure

· Performance

limike by bus

· cache monory

reduced num or bus access

· Cache coherence

cour problems