Pariallel Computing		
Parrallel Architecture:- L. Parrallel computer: A computer system with multiple processors.		
La Parrallel Computer: A computer system with	a mou	
C1 [C2 Cn		
111		
1 3 1 Memory		
11/0 12/0 12/0		
	a parallel comuter computer,	
A network of computers can be cotogotized as a parallel computer computer, however the communication will be down because the computers were dosigned		
as independent markines. An example where this type of architecture round work		
is called "Special Parrallel Machine".		
	(a) in a raign	
> Multiple processors allows in times for the instructions to be executed in a given		
amount of time. leitoimance I execution time Exection time		
If 1 processor fails, other processors can work	* Instruction :- Path to instruction memory 1.e PC	
Ly Por e.g Banks	* Data: Path to data menory i.e	
Classification of Panallel Computers	SISD, SIMD, MIMD	
Classification of rangue.		
Flynn's classification: Classified by Instruction Stream & * Data Stream		
	•	
>SISD: 18c 5 [CPU] From = 1 Data -> Sequentia Computer		
Institution T BUS 7		
मिन पिन हैं।		
Spor Vectors, Vector computers,		
SIMD: TES ALU Emvitiple D'apphics		
ALU J OUTA STREATING		
Justicetion PRODUCT OF		

MIMU: 4	Diac.
MIMD: & Having A computer that can you multiple proce	sses or a threads total
0/0,000	1 11.011 CON 0120 1011
plograms at the same time (because of multiple pr	10 (CESO18).
Shored	A MANNEY !
Shared Memory Vs Message Passing	
Shared At	
i.e (memory), could be done by SIMD MIND	same physical and less space
()	
[P. [r2] [P3]	
Shard men -> connection & * could create b	ottlenecle, because all the processors
I main Mercry are using it simul	tmedial:
Memory Machine.	are Paretin Modulated as Distribute
Memory Machine.	age razing receive or Skinoore
[M] [M] Merery	
1 1 1	5) V "115
PI P2 13 . This is note	as a Shered Memory
	efficient way to build share
Interconnect memory becau	92
Interconnections: Modessiers	multiple bus, crossit
> Indirect: Processors are not directly connected to each	other but through a make (a)
.) Direct: - Processors are directly connected to each	other e.g ring, stay next tories
Direct: - Processors are directly connected to each bracking Technique: how the route is taken for the	messege to be delived wings
course to the see destination.	o canero tom
CHUCK TO THE STATE	NUMBER OF STREET