#### Avoito Qual

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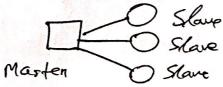
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Types of multicore system

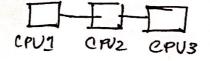
a) Assymmetric System

b) Symmetric system

or processor controls the other slave processors.



b) Symmetric system: All the processors are treated equally without any control or priority.



Advantages of multicore system:

a) Increased throughput

A multiprocessor of stem & can penters has more computational power than single chargest processor system.

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Chapen two by a system with two process than a single two systems with single prom with equal computation power.

C) Highen reliability

A multiprocessor system can have its muctions in executed in different processors. Down failure of a single Louise processor won? + create problems.

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## Ans to Qino. 2

To restrict the users from personning/executes tasks harrowful to the system, we need deal made of operation. Thus it means provides the OS a way to protect the system.

The OS has made bits to differentiate dual mode of operation a) User has made bit = 1

b) Kernel has made bit = 0:

When a usen letects an operation has made bit I, it knows usen is vising doing the operation. For made taking control, it changes the mode bit to O.

### Ansito Que agreed a presto

Process -> A process is a program in execution. It mais
located in the main memory.

Program -> A set of instructions used to periform centain tasks. Located in secondary memory. When executed it becomes a process.

New Scheduler disorteh

Ready Running

The Chaiting of The complete Chaiting to The complete

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New : Process is created and put in is to be put in the queue Cructed from priogram.

Ready: Ready Reservee is allocated and ready to be executed.

Running: Process is executed

Waiting: Waiting for I/O openation (

Terminations Ind of process execution.

Junes Burger is action of whom the water popular sounds Some incructions can cause harm to system or change major properties. These instructions can only be penformed in Kernel mode Comode bit). It is called priviledged instruction.

When a usen tries to person priviledged instruction, the OS changes the made bit to from I to O and thus takes control from users. The instruction is to treated as illegal and isn't penformed.

drawing objection

Marion to I martines statement

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## Ans. to ano. \$6 1 many

The communication processes can be synchronized by blocking from blocking. The ways are-

- blocked but receiving process is received normally by direct link or mall box.
- ii) Nonblocking Send The operation is resumed by the sending process.
- sender, the necessar will block message.
- by receiving the message or null message.

### Ansto Q.no. 5

The ways to implement avene for process communication is:

- The link can not have waiting messages and sender will block unitil receiver receives.
- ii) Bounded capacity: Queue with finite length which can contain n messages at best. Message is sent to

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queue if it is mod fully otherwise it is liseanded or blocked. Or By storing message, senden doesnit have to wait for receiver to receive message and thus saves time,

ii) Unbounded Capacity o Queue with infinite Length and can store any number of messages. The sender can continue sending as much as it cans without getting blocked.

iii) Block Againe? Some Like blocking send it who senden, the overen will block missign in) Non hopering Reaves The sector to Abrester page to stress our off Engineer Pag

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