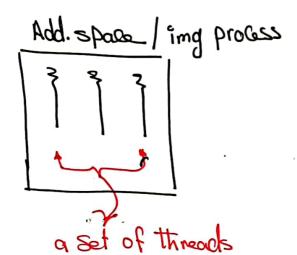
Thread and Remote procedure Call (RPC) ec 34: dispatcher Bootstrap) Kemal CPU/ Process address ProGessor (Ready Q) RAY rograms Passine o Chr | bracessaring 31 entities 100 C/28 womand BAH 33. There is no direct access to Henery CPU from main menory. نقلالياناد I memory in @ Control o emagine all these TIES Probesor 1 address Bus requests from cpu to RIW data @ memory Bus memory will done using 3 Data Bus Process 91 includes O offect balander Process Control Block (PCB) info.abait Pro Process ID money limit Priority **E**

Lec3. Cont.

O.S uses thread Concept instead of the process

Called Task



Process à les in 0.5 o Resource ownership o Resource abolation

o Task schaduling

Process state

· Program Courter

Threads -> is a lightweight program.

when one thread is waiting, other threads are

Proced

Synchronisation Plūnid> ____ overlapping issue

Clock Can Single Money Planie

Read write

ह्य

Threads are going to manage ConCurrency in programs unit of dispatching significant feature in Ds.

Hultithreads Concept means The a.s has the ability to support multiple Concurrent paths of injection of execution within a single process.

Function Call | Subroutine

oBenefits of threads &

inderestions Commistions by thread first de exit

Kornel.

Denhance Communication between processes.

@ enhance execution time of process task.

3 less time to terminate a thread than process

most info dealing with execution to maintained in the thread level data structure

o thread type
6 user thread coreated by APP)
6 Kernal thread coreated by 0.5)



o Thread state

o New ()

o blocked ()

o un blocked ()

o Terminated ()

Suspended Il dolo 298

Suspended Il
State

11:00 310 200 200 8

Thread I noto & monery

Leis thread xoi 2 is in a silve in I wind I monery

Spracess o memory & him

o New co

o New co

o New co

o Runnable ()

o Running ()

o Ready()

o blocked ()

o wating ()

o suspended ()

o process is

Swapped to

Venewry

@Terminated()

(1