

Discret-hime event Simutation:

State

Events

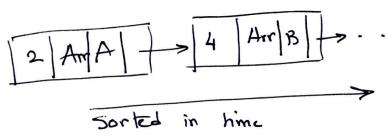
Clock

Init

Running

Slahictics.

Event Queux



Types ARR DEP
Initialization:
CPU-idle = TRUE; Clock = 0; Create - event (ARR, Pid, time) = Function that Creates an event and puts it in event and puts it in the Event Queue Ready Guerre = empty; End-cond. ARR 1 2.5 14
Running Engine While (! End-cond) { event = get-event () = Function that returns the fist event Clock = event-hime; in he Event Queue. Switch (oet-lyge); Case ARR: hande-ARR(event); Case DEP: handle-DEP(event);
Output Result

handk-ARR () }

If (PV-idle == TRVE) 5

Create-exent (DEP, Pid, clock + server time-rv);

else Enquere Pid inte Rendy Quem.

> Create - event (ARR, Fier new Proces, clock + arrival time rv);

V Keeps the Simulatur going

hardle_DEP (Vernt DEP)

Tf Ready Que == empty CPU_idle = TRUE;

else pop pid from Ready aum.

Create-event (dep, Pid, clock + servicin-rv);

