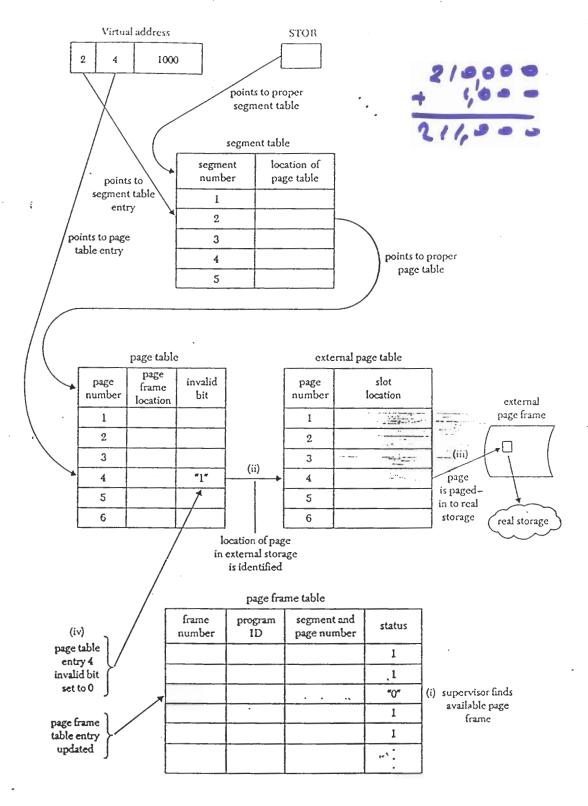
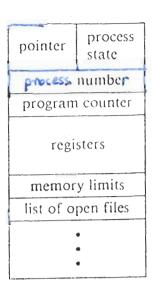


VIRTUAL STORAGE SYSTEMS





Program Figure 4.2 Process control block.

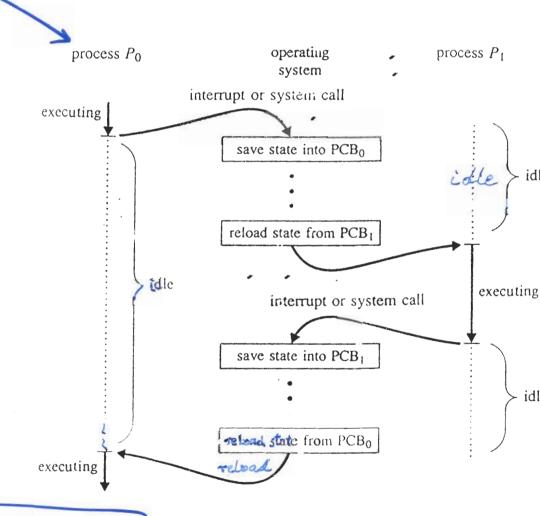


Figure 4.3 The CPU can be switched from process to process.

after state of Po is seved in PCBo, and state of P, is relocated from PCB,

an antiquestado ejentra e traba

Ex. Two programs: Prog A = 25kB, Prog B = Loke disk virtual menory As lrog Apa real memory A, PK AL AZ 12 harduge As 8, As branslate 16 An A4 virtual Ay 12 20 addresses A5 A5 to recl 24 Ac AG 23 Ang BO Prog 80 pages are swapped 32 Ba B, in to real memory BR 36 and scapped out Bz By 10 from real memory B3 BA to disk. 44 48 - in real memory, pages occupy honcostiquous MERONY programs ere - programs pages assigned contiguous are physically virtual addresses stored on disk virtual memory is er in real memo much larger than

real memors

How pages we swapped in and swapped out!

- 1. Initially real memory is
- 2. As is loaded and executes, after a while As reguests I/o
- 3. Bo is located and starts to execute
- 4. Bo calls page Bz, after a while Bz requests Ilo
- s. Co is Localed and runs, after a white Co requests I/o
- 6. As gets data and resumes running. After a while, ct calls A.

A, is not in real mornory.

It heeds to be brought to

real memory. There is no room.

in real memory. Bo may be

suapped out (LRU page - Project & 2). A, suapped in

ach replaces Bo. When Bo is caused NERT TIME, IT CAN

BE LOADED INTO PROMER PRAISE.

