



process context suitch (when CPV becaus available)

ha ultiprogramming

save PCB for preempt to be process (dispatcher)

Vesture PCB for dispatch-to-be process (dispatcher + schuller)

(untext:

- (1) Unique 1) of the process (pid)
- (2) pointer to parent process
- (3) pointer to child photesses

(4) priority of the process (for LPU schooling)
(5) a vegister save a rea lunavestosave vegister contents) & houslayall processes
(b) the processor H's vegging
(7) list of open files
(8) Lunet position of stack pointer
(9) correct position of happointer
(10) house keeping in function
passine termination
exit();
active termination
IPC
(1) approach : shared memory
producer-consumer problem Struct {
••••
bufferpul } item;
Coust in BOFFER_SIZE = 10;
h-2 Nouffer [Bouffer [Bouffer SIZE]
in out [(x-1)+1] modx=0 I tem hext-item_produced; next-item_consumed
the producer process:
while (true){
while ((int 1) % BUFFER_SIZE)== Out),
buffer[in] = next_itan_produced;
In=(in+1) mod BUFFEK_SIZE;

the consume process:	
While (true){	
While (in==out);	
Mex+-item_comound=buffer[out];	
but = (. u++1) Y. BUFFER_SIZE	
/t consulae the item?	
}	
produce process:	
Wile (tox) {	
/ * produce an itan in "itchenersage" */	
Send ((our uner, i tele - hiellage)	
}	
,	
Consumer proces:	
while (tra) {	
receive (produler, ita_message)	
/ " (onsumes theiten in " item message " it)	
3	