

J. D.	-:- Buffer is implemented as circular queu
	Ziew
809	Nail var 2
T	A STATE OF THE PARTY OF THE PAR
77	Medulus operator to check
	the Status of the buffer.
	المال معلى الماليول في الماليون الماليو
	A Producer
	Charles T. Market M. S. C. C.
	Possible check for the space.
	, counter= counter+1;
5	Sounter = counter+1; Solut the element in the buffer
/	d- consumer
4	Possible checking for empty
	Le counter = counter -1;
	Gounter = counter-1;
1	southoff wh was takended
1	I counter is a shared variable.
	(PU)
	mi: 2 counter / 2:= counter,
	21:= 21+1; (25:= 25-1;
	Counter: = r; counter: = r2;
	1 1 2)
	Cuitical section.
	on the state of th

Date: /

Process Synchunization

when two or more process execute concurrently then suitable means to be provided for execution of code involving a should resource.

Producer consumer

counter = counter +1 Counter= counter-1 M= counter; B2= wunter;

& = J+1; 72= 72-1; Counter= 72 Counter= or.

& critical section to cuitical section Purblem.

Ly cender for the sole of CSP.

Ly cender for the Sole of CSP.

Ly two process Solv (Peterson sole)

Ly Drawback of St.

P1, P2, -- Pon " number of Processes. executes concurrently. R > shared Resource.

Section of code in each of the recommender from the shared to Resource R

(m: 11)

known as critical section.

The specialization problem consciously to the processes executing concurrently involving a shared resource &, known as critical section Problem.

Solution of critical section Problem.

It has to execute a section of code before entering into the critical section of entry section

1

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empletion
upon of critical section it

executes a section of code
allowing the other to enter

their critical section
exit
section

Exit section may be followed. by some code known as remainder fection. critical Section Problem.

Mutual exclusion i

Processes are allowed to execute their critical section in a Mutually exclusive manner.

2) Progress :> If the critical scrtion is total freels then It must be granted to a requesting process in finite time

Bounded maiting & Max. no. of time a process is allowed to enter its critical section.

Two Process Software solution.

Po , P,

K

o develop Suitable code for entry section and exist section 1,3=1-1

repeat Tentry section

critical section exit section

remainder section

until false.

Peterson Soun (Two process s/w soun

repeat.

flag[i] := true;

turn:= j while (flag [i] and turn z j) do skip;

critical ecition

flag[i] = false

remainder section.

until false.

1433150 30

P; has expressed its interest to execute