

































	EX	(ECU	TI	ON TI	RA	CE		
	T _{c1}	State	T _{c2}	State	T _p	State	Count	Comment
Two threads	c1	Running		Ready		Ready	0	
	c2	Running		Ready		Ready	0	
	- 3	Sleep		Ready		Ready	0	Nothing to get
Legend	·	Sleep		Ready	pl	Running	0	
c1/p1- lock		Sleep		Ready	p2	Running	0	
c2/p2- check var		Sleep		Ready	р4	Running	1	Buffer now full
c3/p3- wait		Ready		Ready	p5	Running	1	T _{c1} awoken
c4- put()		Ready		Ready	p6	Running	1	
p4- get()		Ready		Ready	pl	Running	1	
c5/p5- signal		Ready		Ready	p2	Running	1	
		Ready		Ready	р3	Sleep	1	Buffer full; sleep
c6/p6- unlock		Ready	cl	Running		Sleep	1	T _{c2} sneaks in
		Ready	c2	Running		Sleep	1	
		Ready	c4	Running		Sleep	0	and grabs data
		Ready	c5	Running		Ready	0	T _p awoken
		Ready	c6	Running		Ready	0	
	c4	Running		Ready		Ready	0	Oh oh! No data

T _{c2} runs, no data to consume										
	T_{c1}	State	$ T_{c2} $	State	$ T_p $	State	Count	Comment		
Legend								(cont.)		
c1/p1- lock	c6	Running		Ready		Sleep	0			
c2/p2- check var	c1	Running		Ready		Sleep	0			
c3/p3- wait	c2	Running		Ready		Sleep	0			
c4- put()	c3	Sleep		Ready		Sleep	0	Nothing to get		
p4- get()		Sleep	c2	Running		Sleep	0			
c5/p5- signal		Sleep	c3	Sleep		Sleep	0	Everyone asleep .		
c6/p6- unlock										
oorpo unicola										



















