

















































	ΕX	EXECUTION TRACE:							
WHILE, 1 CO	ONDI	TION,	1	PRODI	JCE	R, 2 (ONS	UMERS	
	T _{c1}	State	T _{c2}	State	T _p	State	Count	Comment	
	c1	Running		Ready		Ready	0		
	c2	Running		Ready		Ready	0		
	c3	Sleep		Ready		Ready	0	Nothing to get	
Legend		Sleep	c1	Running		Ready	0		
c1/p1-lock		Sleep	c2	Running		Ready	0		
c2/p2- check var		Sleep	c3	Sleep		Ready	0	Nothing to get	
c3/p3- wait		Sleep		Sleep	p1	Running	0		
c4- put()		Sleep		Sleep	p2	Running	0		
		Sleep		Sleep	p4	Running	1	Buffer now full	
p4-get()	5	Ready		Sleep	p5	Running	1	Tc1 awoken	
c5/p5- signal		Ready		Sleep	p6	Running	1		
c6/p6- unlock		Ready		Sleep	pl	Running	1		
		Ready		Sleep	p2	Running	1		
		Ready		Sleep	p3	Sleep	1	Must sleep (full)	
	c2	Running		Sleep		Sleep	1	Recheck condition	
	c4	Running		Sleep		Sleep	0	T _{c1} grabs data	
	65	Running	1 1	Ready		Sleep	0	Oops! Woke Tea	

vp3- wait c2 Running Ready Sleep 0 - put() c3 Sleep c2 Running Ready Sleep 0 Nothing to get - get() Sleep c2 Running Sleep 0 Nothing to get - yget() Sleep c2 Running Sleep 0 Nothing to get - yget() Sleep c3 Sleep Sleep 0 Everyone saleep	■ T _{c2} runs, no o	data to	o cons	ume					
/p1-lock an <		T _{c1}	State	$ T_{c2} $	State	$ T_p $	State	Count	Comment
Vp2- check var (p3- wait c.1 Running Ready Sleep 0 - put() c3 Sleep - Running Ready Sleep 0 Nothing to get - put() c3 Sleep - Running Ready Sleep 0 Nothing to get - get() Sleep c2 Running Sleep 0 Nothing to get /p5- signal Sleep c3 Sleep Sleep 0 Everyone asleep									(cont.)
vp3- wait c2 Running Ready Sleep 0 - put() c3 Sleep c2 Running Ready Sleep 0 Nothing to get - get() Sleep c2 Running Sleep 0 Nothing to get - yget() Sleep c2 Running Sleep 0 Nothing to get - yget() Sleep c3 Sleep Sleep 0 Everyone saleep	c1/p1-lock	c6	Running		Ready		Sleep	0	
- put() c3 Sleep c2 Ready Sleep 0 Nothing to get - get() Sleep c3 Sleep c3 Sleep 0 Everyone asleep	2/p2- check var	c1	Running		Ready		Sleep	0	
- put() c3 Sleep c2 Ready Sleep 0 Nothing to get - get() Sleep c3 Sleep c3 Sleep 0 Everyone asleep	3/p3- wait	c2	Running		Ready		Sleep	0	
- get() Sleep c2 Running Sleep 0 /p5- signal Sleep c3 Sleep Sleep 0 Everyone asleep	:4- put()	c3	Sleep		Ready		Sleep	0	Nothing to get
/p5- signal Sleep C3 Sleep Sleep 0 Everyone asleep			Sleep	c2	Running		Sleep	0	
			Sleep	c3	Sleep		Sleep	0	Everyone asleep
/po- uniock	c6/p6- unlock								















