EXAMPLES

Name	Description	Invariant
BasicOneQueueOneProcessor	The basic Petri net for modeling a service post with a queue	P1+Working=1
BasicOneQueueOneProcessorC ountInCountOut	Same as previous, with in and out counters	P1+Working=1 CountIn = Waiting+Working+CountOut
BasicOneQueueOneProcessorE xitQueue	The basic Petri net for modeling a service post with a queue. We add a queue for exiting. We keep the counters	P1+Working=1 CountIn = Waiting+Working+WaitToExiit+C hecking+CountCheck+CountNC
Taxis	Models a system for taxicabs. There are two lines for people: one for single person rides; one for two people rides. The taxi cab must drive to a gate where there is a line for begin checked before leaving the lot.	CountInTaxi = TxQ+ CountSi CountEnterSh=ShQueue+2*ShQueue CountTaxi=TxQ+Driving+ +ExitQueue+Checking+CountTxOut
1q2p	One que serviced by two different processors	Working1+ReadyProc1=1 Working2 + ReadyProc2 =1
BasicOneQueuuUndistProcs	One que serviced by two indistinguishable processors	P1+Working=2 CountIn=Working+Waiting+CountOut
ThreeWithTurns	One Queue Three processors, but they cannot work simultaneously as they need the same machine M. They have to work in this order P1, P2,P3, P1,P2,P3	P1+w1=1 P2 +w2=1 P3 + W3 = 1
PriorityQueue	Bank with one teller and 2 queues: priority and general. The teller sequentially services two people and then one from the general queue.	P1+WP1+P2+WP2+P3+WG=1 CountInP=Priority+WP1+WP2+C ountP CountInG=Queue + WG + CountG

Name	Description	Invariant
TwoAtATimeWeights	Basic Petri net, but processor. Services two at a time. We use weights	CountIn =Queue+2*Working+CountOut +WaitForOther+Temp1+Temp2 Proc+Working = 1
TwoAtATimeNoWeights	Basic Petri net, but processor. Services two at a time.	CountIn =Queue+2*Working+CountOut Proc+Working = 1
CheckNoCheck	Models a checkpoint int which the guard checks one, does not check the next, checks, does not check,	Ready + Checking <= 1 CountEnter=Queue+Checking+ CountCheck+CountNoCheck CountNocheck = Checking+CountCheck
Count	Siimulates a counter from 0 -999	CountIn = Temp + P0 +10*P1 + 100*P2
ThreeTasksTwoSim	Simmultates Procese that have to complete three tasks: A, B, and C. B and C mus tbe performed at the same time. The order can be A (BC), or (BC) A. P1 executes A, P2 executes B, P3 executes C.	P1+W1_1+W1_2 = 1 P2=P3 P3+W23_1+W23_2=1 CountIn = Queue+Q1_2+Q23_2+ W1_1+W1_2+W32_1+W32_2+