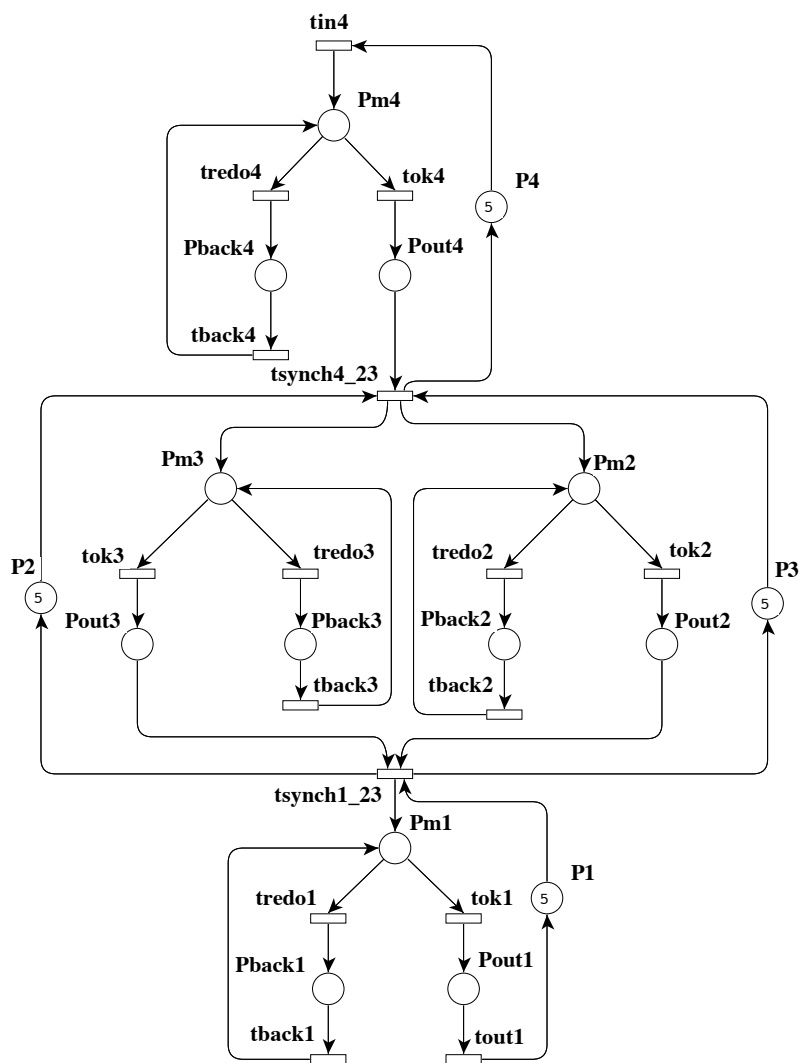


Introduction

This Model form is a short description of the Kanban model that comes, for the Model Checking Contest 2012 @ Petri Nets, with: a set of PNML files, a set of properties to be checked (possibly one file per model instance) and an optional set of properties concerning the model (invariants, etc. – possibly one file per model instance). For Coloured Nets, equivalent PNML P/T net files are proposed too.

Kanban



Presentation

Description: This Petri net is extracted a benchmark used for SMART. It models a kanban system.

Origin: <http://www.cs.ucr.edu/~ciardo/SMART/>

Scaling parameter

Name	Description	Values
N	The scale factor is a value that changes the initial marking of places P1, P2, P3 and P4 ($M(P1)=M(P2)=M(P3)=M(P4)=N$)	5, 10, 20, 50, 100, 200, 500, 1000

Information about the Model

Data on the Model

Number of places	Number of transitions	Number of arcs	Scaling parameter value
16	16	40	all

Stated Properties

safe	✗	free choice	✓	event graph	✗
deadlock	?	state machine	✗	reversible	?

Other Properties (not mandatory)