PetriNet2ModelChecker Quick Start

- 1. The application can be launched by executing PetriNet2ModelChecker.jar file.
- 2. PetriNet2ModelChecker has 3 tab pages:
 - a. *Coverability graph to nuXmv parser* facilitates PT-, CP- and RTCP-nets' reachability/coverability graphs to nuXmv code translation.
 - **b.** Coverability graph to AUT parser facilitates PT-, CP- and RTCP-nets' reachability/coverability graphs to Aldebaran format translation.
 - c. **RTCP Conversion** enables loading RTCP-nets modelled with CPN Tools application and generation of their coverability graphs and simulators.
- 3. Steps required to generate nuXmv code for an RTCP-net:
 - a. Select the first of the tab pages (Coverability graph to nuXmv parser).

File Parser	RTCP Simulator Help			
Coverability g	raph to NuXMV parser	Coverability graph to AUT parser	RTCP Conversion	
Input file:				_

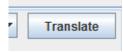
b. Select *RTCP Nets* option from the combo box.

 RTCP Nets	•	1
RTCP Nets		
Coloured Petri Nets		
Place/transition Petri Nets		

c. Enter direct path of the file to translate or select this file using file browser dialog shown after clicking the button designated with [...] symbol.

Sile Parser	PetriNet2ModelChecker -	- □ ×
Coverability	graph to NuXMV parser Coverability graph to AUT parser RTCP Conversion	
Input file:	RTCP Nets	Translate
	🛃 Open 💌	
	Look Jn: 🗂 przykładowe pliki 💌 🛋 🛱 🗂 🐯 😓	
	D modert.dot	
	File Name: model1 ddt Files of Type: DOT file (*.dot)	
	Open Cancel	
1		Save

d. Click the *Translate* button



e. NuXmv code after its appearance in the memo can be easily saved to a file by clicking on the *Save* button.

MODULE ma	ain		
V/ U X	s: {s0, s1, s2, s3, s4, s5, s6, s7, s8, s9, s10, s11, Sensor_d: 03; Clock_0: 03; Proc1_d_0: 03; Proc1_d_1: 03;	s12, s13, s14, s15, s16, s17, s18, s19, s20, s21, s22, s23);	
	Buffer_d : 03;	🔹 Save 🗙	
	Proc2_d_0 : 03; Proc2_d_1 : 03; Sensor_time : -23;	Savejn: 🗂 main_jar 🔻 🖬 🗇 🗗 📴 🗁	
	Clock_time : -23;		
	Proc1_time : -23; Buffer_time : -23;	📑 rtcpnc	
	Proc2 time : -23;	model1.smv	
SSIGN			
	init(s) := s0;		
	next(s) := case s = s0 : s1:		
	s = s0 : s1; s = s1 : s2;		
	s = s1: s2, s = s2: {s3, s4, s5};		
	s = s3 : s1;		
	s = s4 : s6;		
	s = s5 : s7;	File Name: model1.smv	
	s = s6 : s8;	Files of Type: NuSMV file (*.smv)	
	s = s7 : s9; s = s8 : s2:		
	s = so : s2, s = s9 : s10;	Save Cancel	
	s = s10 : {s11, s12, s13};	Save Califer	
	s = s11 : s1;	Save selected file	
	s = s12 : s14:		
			Save

4. Translation of coverability/reachability graphs of other Petri net types to nuXmv code and Aldebaran format can be performed analogously. The process of RTCP nets' coverability graphs and simulators generation is also similar.