

A Symbolic Simulation Mechanism for Well-formed Coloured Petri Nets

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Abstract

Coloured Petri nets are well suited to the modelling of realistic distributed systems. Such models are however usually too large and complex to analyse and simulate using standard techniques. Originally the model symmetries inherent to the colour definitions of Stochastic Well-formed Nets (SWNs) were exploited for Markovian analysis. Here we propose a similar technique to substantially reduce the average length of the event list in case of large and symmetric models. Examples of real simulation models of multiprocessor system architectures show that, after a given threshold, the symbolic simulation time may be virtually independent of the actual size of the system to be modelled, thus making the simulation of systems with thousand processors as inexpensive as the simulation of systems with only few processors.

1 Introduction

Petri nets (PNs) [1,2] are an ideal graphical representation of concurrency, synchronization, and resource sharing among asynchronous independent processes. Coloured Petri nets [3] are particularly well suited to the modelling of realistic distributed systems due to their high modelling power and their terse graphic representation. Mathematical properties of coloured Petri nets can be used for formal model validation purposes as well as for improving the efficiency of performance evaluation [4].

A class of syntactically restricted coloured nets called Well-formed nets (WNs) [5] has been recently introduced. The main analytical motivation for this restriction was the possibility of algorithmically detecting and exploiting model symmetries by means of the concept of symbolic marking. Stochastically timed versions of Well-formed nets (SWNs) have been subsequently introduced as well for performance evaluation purposes [6].

Originally the model symmetries inherent to the colour definitions of SWNs were only exploited for Markovian analysis, showing the possibility of direct construction of lumped Markov chains yielding the same performance results as the original model.

Interactive simulation of (non-coloured) Petri net models is already efficiently implemented in the *Great-SPN* package [7,8]. In that case the information derived from a preliminary structural analysis of the Petri net model is exploited to improve the efficiency of the simulator data structures in various ways [9,10], thus achieving up to one order of magnitude speedup with respect to normal event-driven simulation that does not take this information into account.

The idea is to achieve similar kind of simulation efficiency improvements for coloured nets by additionally exploiting intrinsic model symmetries. The length of the event list can be substantially reduced by using this technique in case of large and symmetric models as compared to the usual event-driven simulation technique. Substantial improvements in simulation speed may be reasonably expected in case of large SWN models. The efficiency of symbolic simulation technique as compared to usual event-driven simulation of the same models is currently under evaluation for several actual SWN models. Preliminary results show that symbolic simulation times may be virtually independent of the actual size of the model to be simulated in terms of cardinalities of the colour sets.

The paper is organized as follows. Section 2 contains a description of the SWN modelling formalism, of symbolic marking representation and an example of symbolic firing. Section 3 explains the symbolic simulation mechanism. Section 4 discusses some experimental results derived from a comparison of the implementation of the symbolic simulation technique with the usual event-driven simulation technique on two actual SWN models. Section 5 contains conclusions and perspectives of this work.

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