**The modelling stage**

Asymmetric modelisation

- More intuitive
- Dynamic management of Asymmetries

Symmetric modelisation

Synchronous Product

**Event-based Control automaton**

**Symbolic Computation of Successors**

- Stored symbolic marking
- Refinement of a symbolic marking
- Symbolic firing
- Rejected instance of the symbolic firing
- Valid successor (not yet stored !)

**Evaluation vs GreatSPN**

In several cases, we have a large reduction in space and time, but this is not the general case because of a non empty intersection between symbolic markings

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<th>SRG(RG) # Nodes</th>
<th>ESRG Time</th>
<th>ESRG # Nodes</th>
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<th>DSRG # Nodes</th>
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To minimize the number of non empty intersections, the most symmetric symbolic markings are constructed first.

The DSRG module implements the construction algorithm

The DySy module manages the control automaton

The Aut module hides the use of dynamic symmetries to the core of GreatSPN

**Symbolic State Space Reduction**

The Symbolic Grouping operation, searches an optimal representation for a set of successors

With the Symbolic Inclusion operation, only the most symmetric symbolic markings are kept