CPN SIMULATOR'S EXECUTION ALGORITHM

- 1. Construct a list of enabled transitions.
- 2. Scan the list of enabled transitions and select from that list a set of transitions and specific bindings that are not in conflict and hence can fire concurrently. Such a set is called an occurrence set.

Occurrence set = Σ (occurrence elements)

occurrence element = (transition, binding)

Why we use occurrence sets:

- a method of **adjudicating conflicts**
- a help to the simulator to execute the net more efficiently
- to provide a medium through which the observer can control the details of execution so as to study a net in more detail or debug it more efficiently.
- 3. Fire transitions as specified by the occurrence elements in the occurrence set.