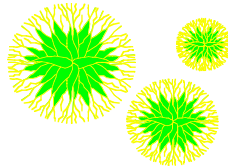




XI. Activity Diagrams

Activity Diagrams Petri Nets Examples



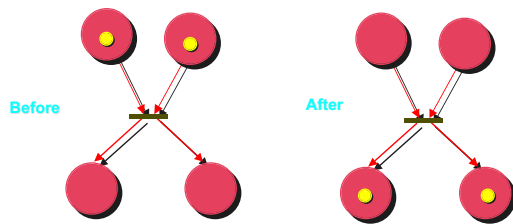
Activity Diagrams

- Like state diagrams, activity diagrams describe activities which involve concurrency and synchronization.
- Activity diagrams focus on the flow of actions and events.
- Can be used
 - ✓ To model a human task (e.g., a business process).
 - ✓ To describe a system function represented by a use case.
 - ✓ To describe the logic of an operation.

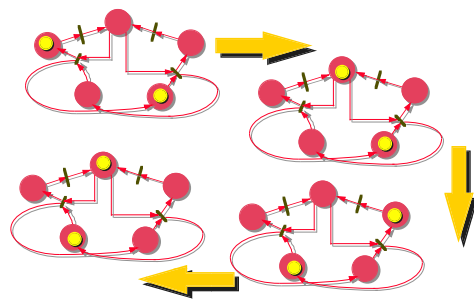


Petri Nets

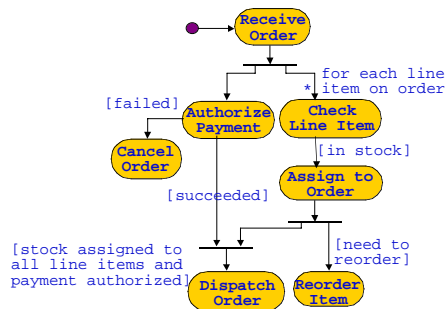
- Petri nets generalize state diagrams by allowing transitions which involve several input and output states:



An Example

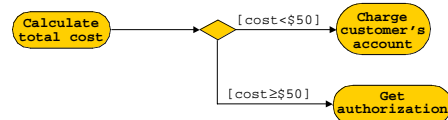


Order Processing



Decision Points

Decision points:



- **Dead ends:** there may be transitions in an activity diagram with no destination state; this can mean that:
 - ✓ Not all processing has been specified;
 - ✓ Or, that another activity diagram will take over.

