Model Driven Software Development Lecture 4

Activity diagram Rogardt Heldal





Activity diagrams

- Can be used to:
 - Describe sequences of activities
 - Both sequential and parallel
- Can be useful for
 - business modelling
 - describing the flows of a use case

— ...

Work flow/processes



Action nodes





Accept time event action node

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Example



Control nodes



Work flow/processes



Decision node

• The output edge whose guard condition is true is traversed.





Example: Conditions and Iteration



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Activity diagram

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Decision input



Pre and Post-condition



Parallel activities



Activity diagram



"Swimlanes"



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Activity diagram

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Object nodes

One can send objects:



Using pins:



Object in State



Activity parameters



Activity Diagram



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Activity diagram

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Multicast and multireceive



Activity Diagram



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Semantics

- Action nodes execute when
 - There is a token simultaneously on each of the input edges AND
 - The input tokens satisfy all of the local action node precondition

