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System Composition Dimension: Core Modeling Aspects				
	Madalad on different laugh of abotraction.			
Component Behavior	<ul> <li>State-based modeling (FSM, Time Automata, Cont. Dynamics, Hybrid), fundamental role of time models</li> <li>Precise relationship among abstraction levels</li> <li>Research: dynamic/adaptive behavior</li> </ul>			
Structure	Expressed as a system topology : • Module Interconnection (Nodes, Ports, Connections) • Hierarchy • Research: dynamic topology			
Interaction	Describes interaction patterns among components: • Set of well-defined Models of Computations (MoC) (SR, SDF, DE,) • Heterogeneous, but precisely defined interactions • Research: interface theory (time, resources,)			
Scheduling / Resource Allocation	Mapping/deploying components on platforms: • Dynamic Priority • Behavior guarantees • Research: composition of schedulers			





Ex.	ample: Synchr	onous Data Flow
structure Value case intValue v as integer case DoubleValue v as DoubleValue v as Double value v as Double value value Boule value value as Value? //Data Doken, it may co structure Token value as Value? //Data Doken, it may co tas Port var exist as Boolean //Data Channel connecti class Channel id as String srcPort as Port distrort as Port distrort as Note id as String sbatract property out //Dynamic Cats Piow See Matract Fire O //Dynamic Cats Piow See Matract Case Sofe id as String abstract Case Sofe id as String abstract Fire O //Dynamic Cats Piow See Matract Data Fiow See Matract Case Sofe id as String data the outporty out data the outporty out abstract property out	Abstract Data Model ntain a value or a null data is true, the port has an effective data token = Token (null) = Token (null) ng two data ports t is the Data Flow. It may be an action or a Guard utPorts as Seq of Port putPorts as Seq of Port antic Unit es as Set of Node nnels as Set of Channel utPorts as Seq of Port putPorts as Seq of Port	kun (n as Node) require n in me EnabledNodes () step n. Fire () step if exists p in n. inputPorts where p. exist then error ("After the firing of a node, all input tokens should be consumed by the node.") step if exists p in n. outputPorts where p. exist then error ("After the firing of a node, each of its output port should have one output token.") step forall c in me. channels where c. srcPort. exist if c. distPort. exist then error ("A input port receives more than one token.") else Writeline ("Channel" * e. (id * " is sending data tokens.") c. distPort. token := c. srcPort. token c. srcPort. exist := false //Return all nodes in the SDF that have all its required data tokens to fire. Enable deNodes () as Set of Node return (n   n in me.nodes where forall p in n. inputPorts where p. exist) initialize () forall c in me. channels where p. exist forall c in me. channels where p. exist if c. srcPort.tokit := false if c. ditPort.tokit := false































