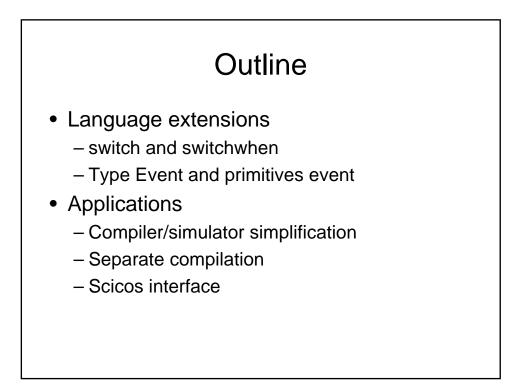
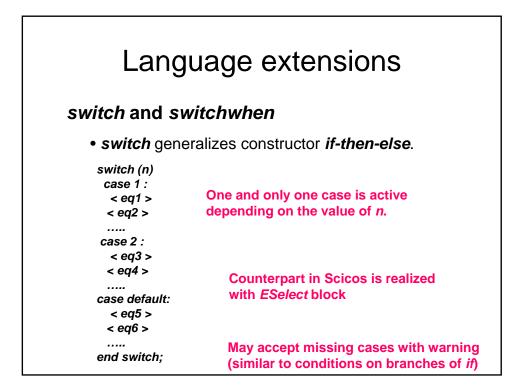
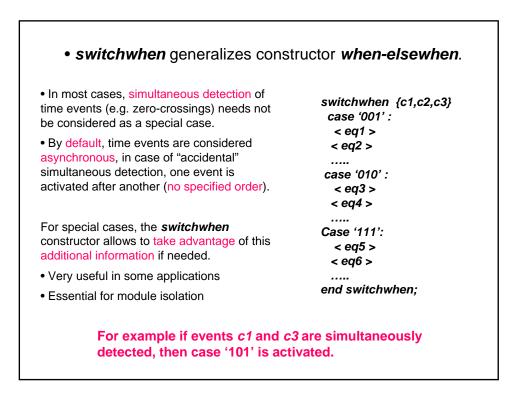
Modelica extensions: efficient code generation and separate compilation

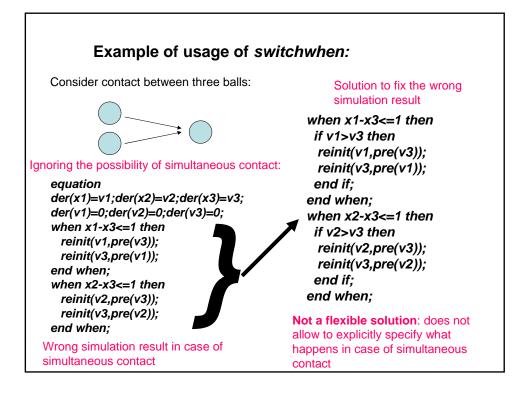
> Ramine Nikoukhah INRIA

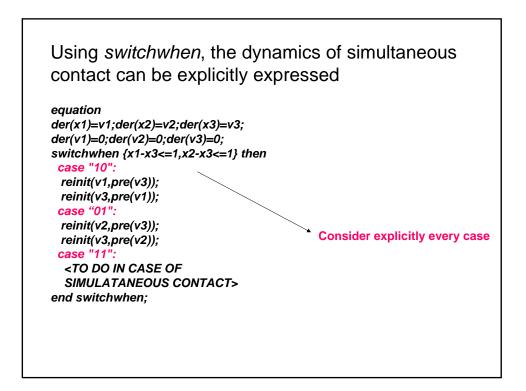
EOOLT 2007

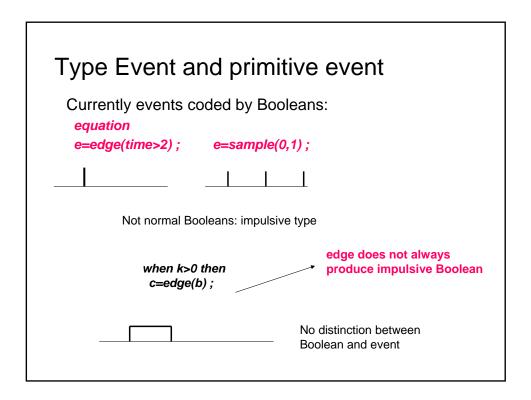


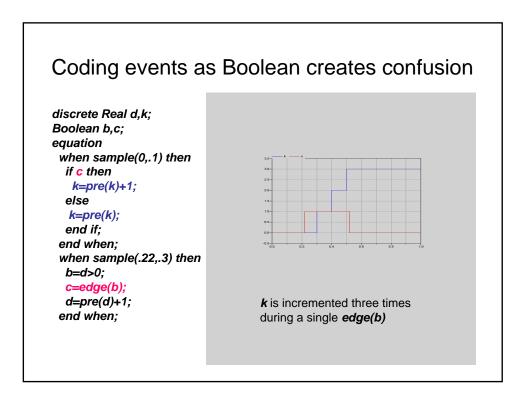




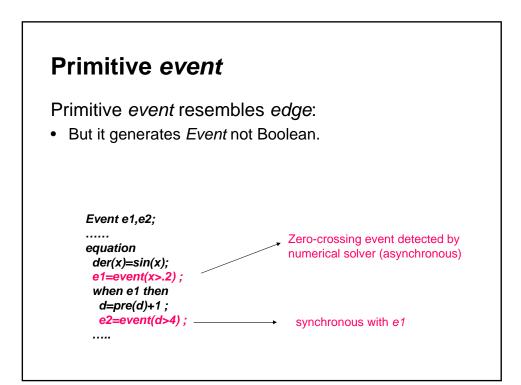


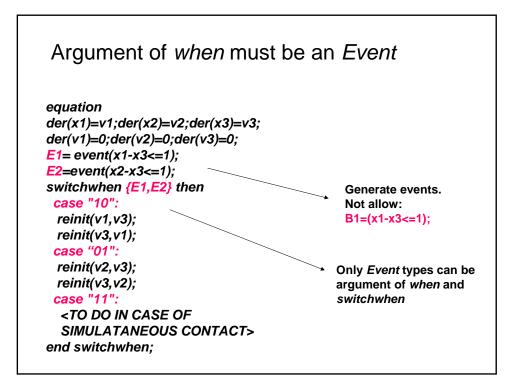


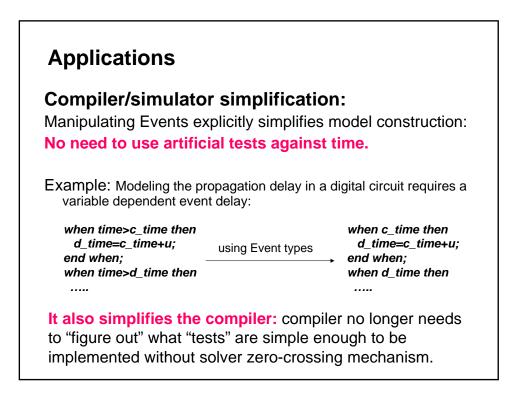


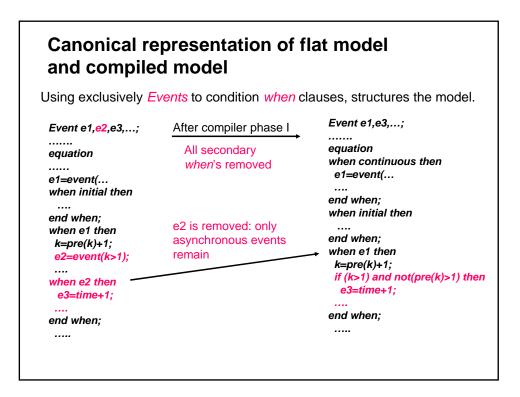


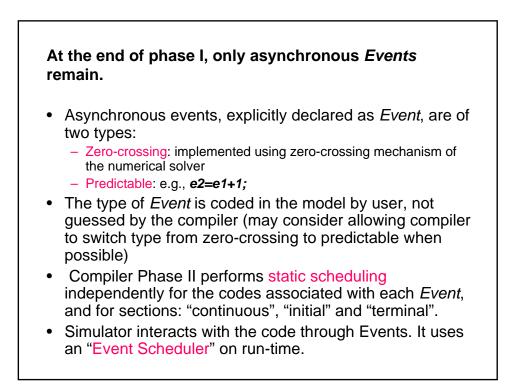
Type <i>Event</i> codes the time of events as float				
Event e1(start=0),e2 ; equation when e1 then e2=e1+1 ; e2 is an event delayed by one				
Delay can be used to emulate <i>sample(0,1):</i> Event e(start=0) ; equation				
when pre(e) then e=pre(e)+1 ; Operation on end when ; Events				

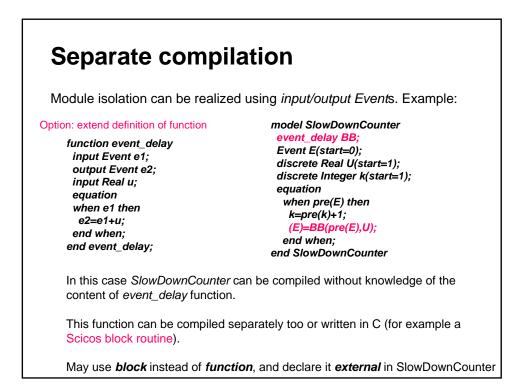


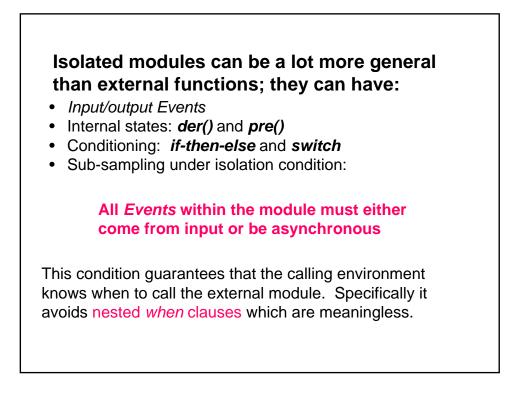


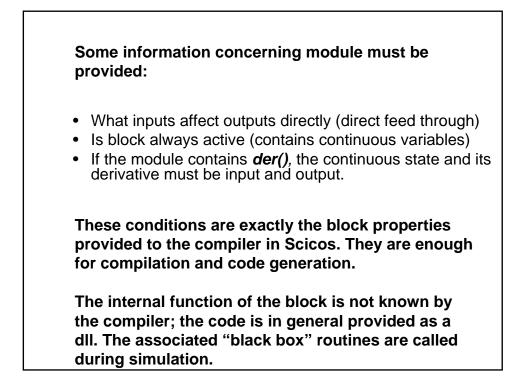


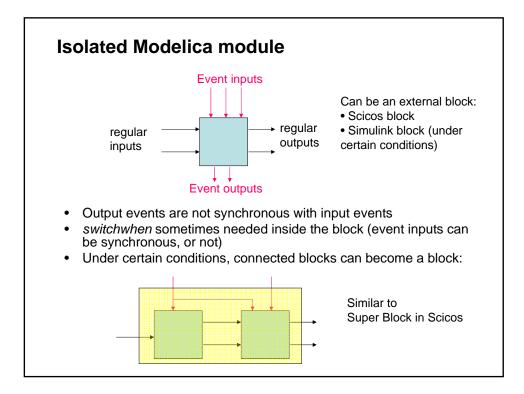












Scicos Interface			
 Scicos block can be used in a Modelica model Modelica Isolated Module can be used as Scicos block (Simpa Project) 			
Scicos block interface #include "scicos_block.h" #include <math.h> void my_block(scicos_block *block,int flag) { }</math.h>	flag	job	
	0	Compute state derivative	
	1	Compute outputs	
	2	Update states	
	3	Output event dates	
	4	Initialization	
	5	ending	
	9	Compute zero crossings and modes	