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Example 1: Modularized		
<pre>//interface Mult_ifc; method Action start (Tin, x, Tin y) method Tout result (); endinterface</pre>	,	
<pre>module mkMult1 (Mult_ifc); Reg#(Tout) product <- mkReg (0); Reg#(Tout) d <- mkReg (0); Reg#(Tin) r <- mkReg (0);</pre>	<pre>State</pre>	
<pre>rule cycle (r != 0); if (r[0] -= 1) ===dust (r == 0);</pre>		
<pre>if (r[0] == 1) product <= product + d <= d << 1;</pre>	a; Robertier	
r <= r >> 1; endrule: cycle	Benavioi	
<pre>method Action start (d_init, r_init) d <= d_init; r <= r_init;</pre>	if (r == 0);	
<pre>endmethod method result () if (r == 0); return product;</pre>	> Interface	
endmethod ebrua endmod015e: mkMult1	L07-4	



















































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dule mkTest (Empty);	
<pre>InterfaceA modA <- mkModuleA();</pre>	
<pre>InterfaceB modB <- mkModuleB();</pre>	
rule messagefromAtoB (True);	
MsgTypeA msg <- modA.getMessageToB	();
<pre>modB.handleMessageFromA(msg);</pre>	
endrule	
rule messagefromBtoA (True);	
MsgTypeB msg <- modB.getMessageTo	DA();
<pre>modA.handleMessageFromB(msg);</pre>	
endrule	
dmodule: mkTest	



