

















































	Demo Example 1:	
-	module mkMult1 (Mult ifc);	
_	Reg#(Tout) product <- mkReg (0);	
	Reg#(Tout) d <- mkReg (0);	
	Reg#(Tin) r <- mkReg (0);	
	<pre>rule cycle (r != 0);</pre>	
_	<pre>if (r[0] == 1) product <= product + d;</pre>	
	d <= d << 1;	
	r <= r >> 1;	
	endrule: cycle	
	method Action start (Tin d_init, Tin r_init) if (r == 0);	
	<pre>d <= zeroExtend(d_init);</pre>	
	r <= r_init; product <= 0;	
	endmethod	
	<pre>method Tout result () if (r == 0);</pre>	
	return product;	
	endmethod	
	endmodule: mkMult1	



