





















	Can these rules execute concurrently 2
rule dofetCn ;	
let ppgE-poytada	
fild apg(FatghiDag	(peru), peru)<=pper,
120.eng(fetChzbec	<pre>inst:instF});</pre>
endrule rule doExecute;	two values for epoch are sufficient
<pre>let x=f2d.first;</pre>	<pre>let pcD=x.pc; let inEp=x.epoch;</pre>
let ppcD = x.ppc	<pre>; let instD = x.inst;</pre>
<pre>if(inEp == epoch</pre>) begin
let dInst = de	<pre>code(instD); register fetch;</pre>
let eInst = ex	ec(dInst, rVal1, rVal2, pcD, ppcD);
memory oper	
ri update .	to digt)
II (einst.misp	The the delay is a set (and the set) is and
pc[1] <= e	and and epoch <= next(epoch); end
f2d deg: endrule	enno
- 12 2015	http://csg.csail.mit.edu/6.175









Two-sta	ge pipeline
Decouple	ed code structure
module mkProc(Proc Fifo#(Fetch2Exect Fifo#(Addr) redi: Reg#(Bool) fEpocl Reg#(Bool) eEpocl); lte) f2d <- mkFifo; rect <- mkFifo; l <- mkReg(False); h <- mkReg(False);
<pre>rule doFetch; let instF = iMe </pre>	em.req(pc);
f2d.enq(in; endrule rule doExecute;	stF, fEpoch);
if(inEp == eEp Decode and ex In case of misp	och) begin ecute the instruction; update state; rediction, redirect.eng(correct pc); end
f2d.deq; endrule endmodule	
endmodule October 13, 2015	http://csg.csail.mit.edu/6.175 L12-1









