













IVIUX	₿p				
			A mux that accepts an input value on each input		
аπ	aCnt				
~ 11			appropriate value to the output		
bΠ					
Behavior					
rule MuxO	when ¬c.full ^ ¬	p.empty		Leitie I	
\Rightarrow if(p.first $\land \neg$ a.empty)				values	
then c.enq(a.first); a.deq; bCnt<=bCnt+1					
else if(!(p.first) ∧ ¬ b.empty)				aCht = 0	
ther	c.enq(b.first); b	.deq; aCnt<	=aCnt+1	bCnt = 0	
rule MuxI1	when aCnt >0 \land	– a.empty			
\Rightarrow a.deq; a	aCnt<=aCnt-1				
rule MuxI2	when bCnt >0 ∧	- b.empty			
\Rightarrow b.dea: k	Cnt<=bCnt-1				
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