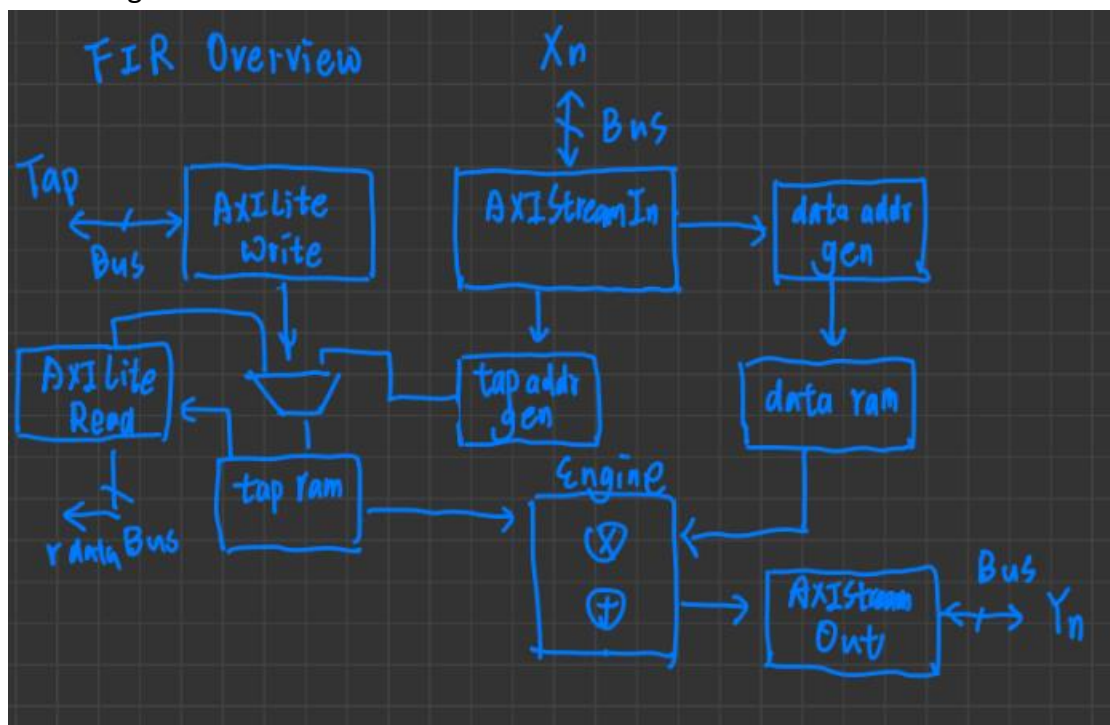
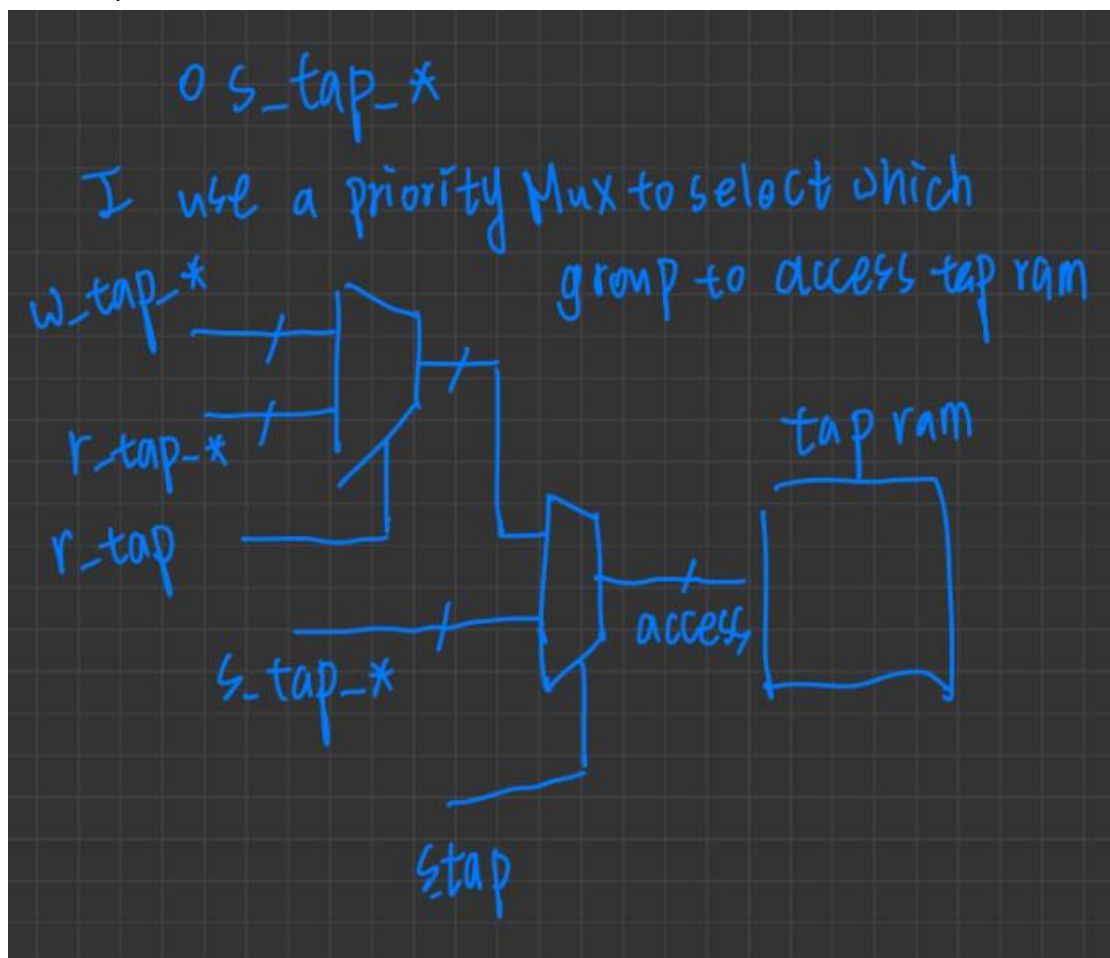


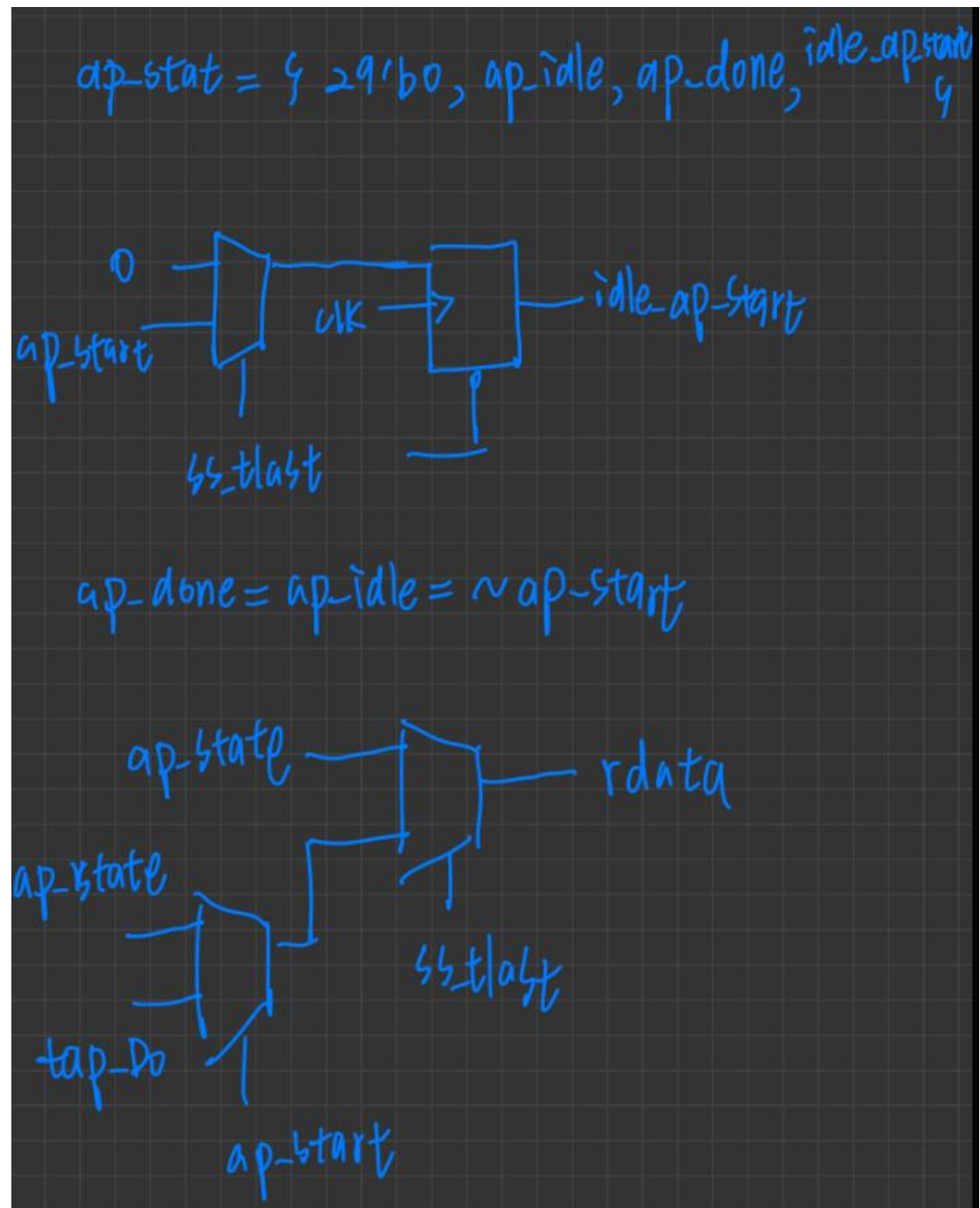
## Block Diagram



## SRAM Operation



ap\_done



Resource usage

Utilization

Post-Synthesis | Post-Implementation

Graph | Table

Resource	Estimation	Available	Utilization %
LUT	403	53200	0.76
FF	114	106400	0.11
DSP	3	220	1.36
IO	431	125	344.80
BUFG	4	32	12.50

Report timing

Best: 12ns

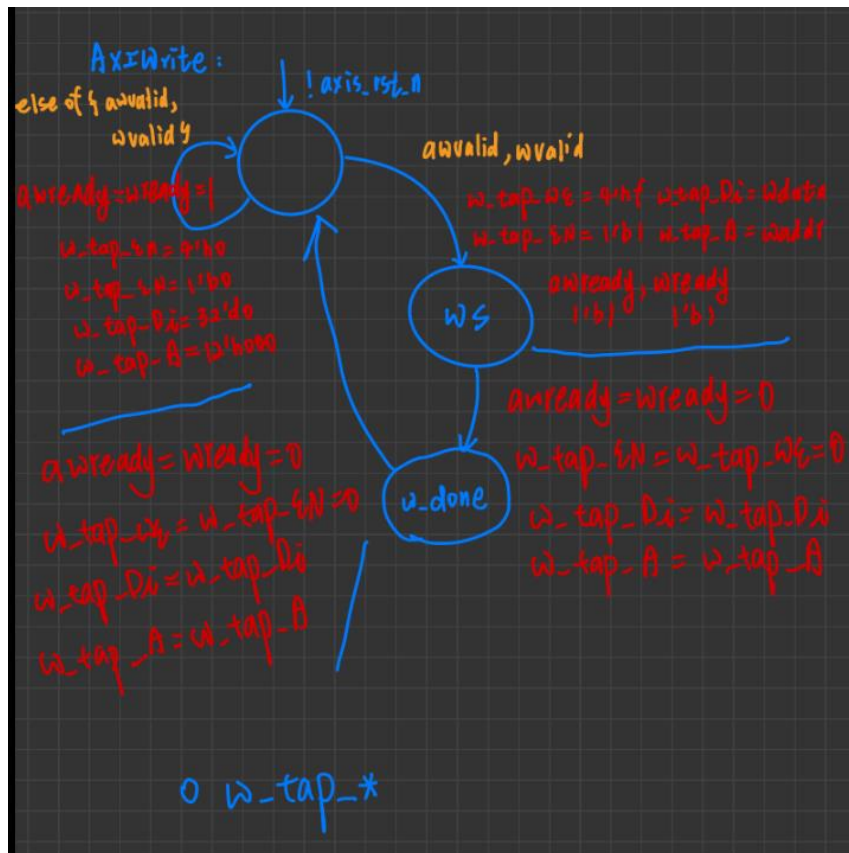
Design Timing Summary			
Setup	Hold	Pulse Width	
Worst Negative Slack (WNS): 1.223 ns	Worst Hold Slack (WHS): 0.147 ns	Worst Pulse Width Slack (WPWS): 5.500 ns	
Total Negative Slack (TNS): 0.000 ns	Total Hold Slack (THS): 0.000 ns	Total Pulse Width Negative Slack (TPWS): 0.000 ns	
Number of Failing Endpoints: 0	Number of Failing Endpoints: 0	Number of Failing Endpoints: 0	
Total Number of Endpoints: 47	Total Number of Endpoints: 47	Total Number of Endpoints: 115	
All user specified timing constraints are met.			
-----			
Max Delay Paths			
-----			
Slack (MET) :	1.223ns (required time - arrival time)		
Source:	genblk1.fir_data_reg[16]/C		
	(rising edge-triggered cell FDCE clocked by axis_clk {rise@0.000ns fall@6.000ns period=12.000ns})		
Destination:	genblk1.fir_acc_reg[29]/D		
	(rising edge-triggered cell FDCE clocked by axis_clk {rise@0.000ns fall@6.000ns period=12.000ns})		
Path Group:	axis_clk		
Path Type:	Setup (Max at Slow Process Corner)		
Requirement:	12.000ns (axis_clk rise@12.000ns - axis_clk rise@0.000ns)		
Data Path Delay:	10.672ns (logic 8.380ns (78.520%) route 2.292ns (21.480%))		
Logic Levels:	9 (CARRY4=5 DSP48E1=2 LUT2=2)		
Clock Path Skew:	-0.145ns (DCD - SCD + CPR)		
Destination Clock Delay (DCD):	2.128ns = ( 14.128 - 12.000 )		
Source Clock Delay (SCD):	2.456ns		
Clock Pessimism Removal (CPR):	0.184ns		
Clock Uncertainty:	0.035ns ((TSJ^2 + TIJ^2)^1/2 + DJ) / 2 + PE		
Total System Jitter (TSJ):	0.071ns		
Total Input Jitter (TIJ):	0.000ns		
Discrete Jitter (DJ):	0.000ns		
Phase Error (PE):	0.000ns		

Over:10ns

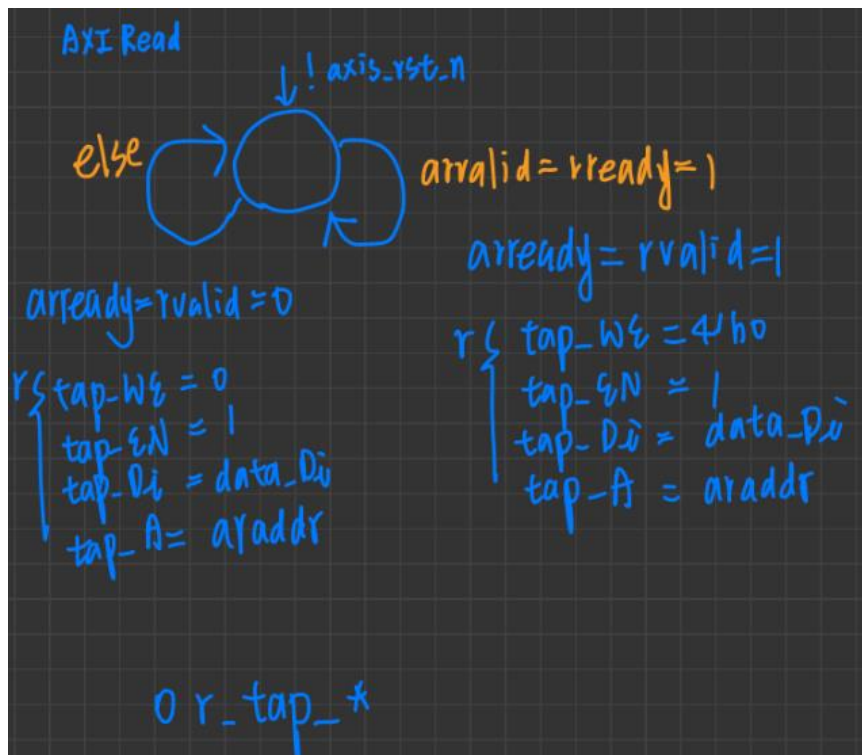
Design Timing Summary			
Setup	Hold	Pulse Width	
Worst Negative Slack (WNS): -0.777 ns	Worst Hold Slack (WHS): 0.147 ns	Worst Pulse Width Slack (WPWS): 4.500 ns	
Total Negative Slack (TNS): -6.889 ns	Total Hold Slack (THS): 0.000 ns	Total Pulse Width Negative Slack (TPWS): 0.000 ns	
Number of Failing Endpoints: 12	Number of Failing Endpoints: 0	Number of Failing Endpoints: 0	
Total Number of Endpoints: 47	Total Number of Endpoints: 47	Total Number of Endpoints: 115	
Timing constraints are not met.			

FSM

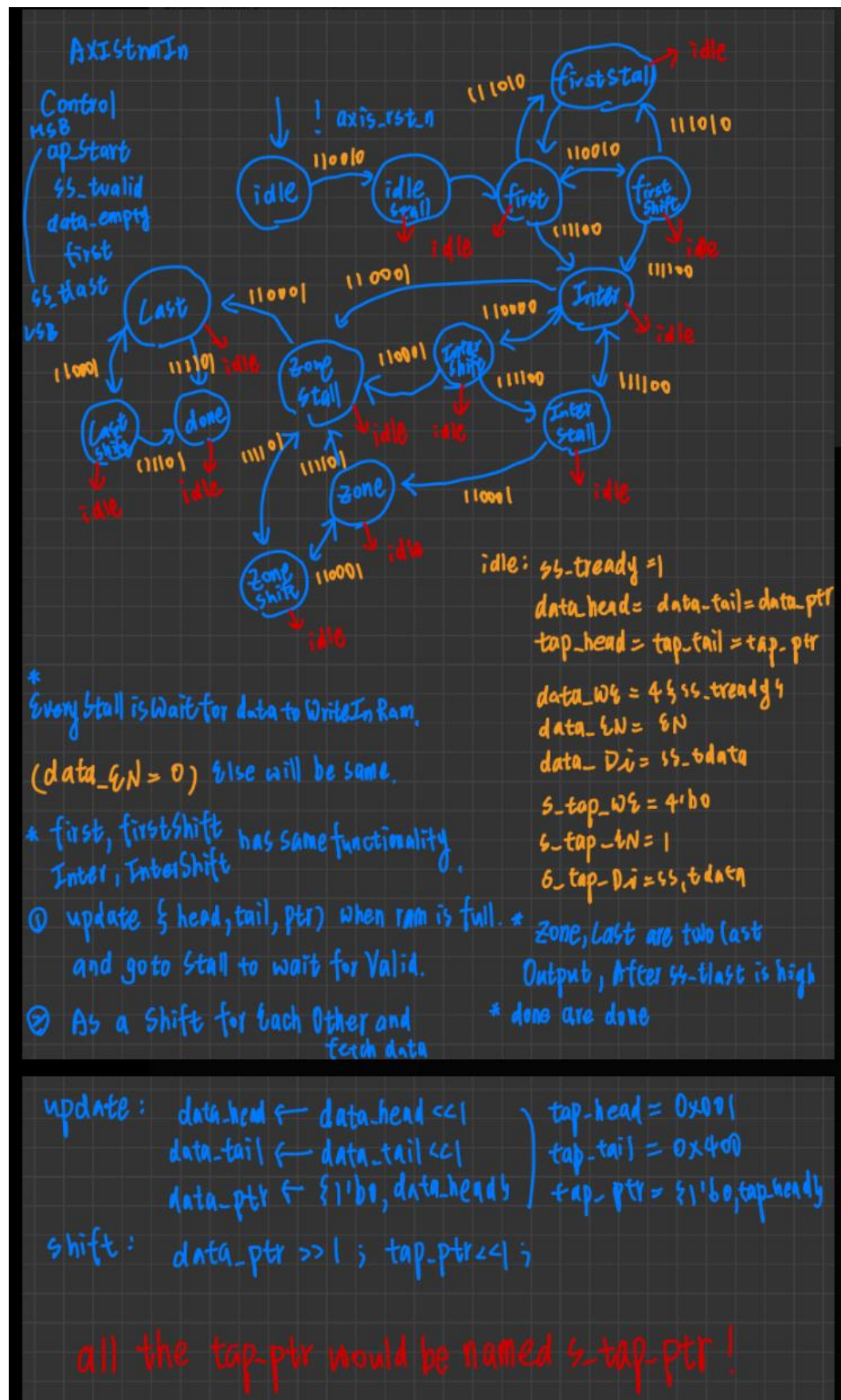
AXIWrite



AXIRead







# AXIStmOut

