					AL	U PROJE	CT TES	T PLA	N													
		INPUT										OUTPUT										
FEATURE ID	FEATURE	CLK	RST	CE	MODE	INP_VALID	CMD	OPA	ОРВ	CIN	RES	COUT	OFLOW	E	G	L	ERR	STATUS				
8'h00	When Reset is asserted all outputs are ZERO	CLK = ~CLK	1	х	×	Х	Х	Х	х	Х	0	0	0	0	0	0	0	PASS				
8'h01	When Reset is 0 and CE is 0 all outputs are ZERO	CLK = ~CLK	0	0	Х	Х	Х	Х	Х	Х	0	0	0	0	0	0	0					
		Arithmetic Operations																				
8'h02	When INP_VALID is [0,0], ERROR flag will be high, ERR = 1	CLK = ~CLK	0	1	1	2'h0	Х	X	Х	0	0	0	0	0	0	0	1	PASS				
8'h03	When INP_VALID is [0,1] - Increment OPA	CLK = ~CLK	0	1	1	2'h1	4'h4	8'h0A	Х	0	16'h000B	0	0	0	0	0	0					
8'h04	When INP_VALID is [0,1] - Decrement OPA	CLK = ~CLK	0	1	1	2'h1	4'h5	8'h0A	X	0	16'h0009	0	0	0	0	0	0					
8'h05	When INP_VALID is [0,1] - Increment OPA	CLK = ~CLK	0	1	1	2'h1	4'h4	8'hFF	X	0	16'h0100	1	0	0	0	0	0					
8'h06 8'h07	When INP_VALID is [0,1] - Decrement OPA  When INP_VALID is [0,1] and CMD is INVALID, ERR = 1	CLK = ~CLK	0	1	1	2'h1 2'h1	4'h5 DEFAULT	8'h00	X	0	16'h01FF 16'h0000	0	0	0	0	0	0	PASS				
8'h08	When INP_VALID is [0,1] and CMD is INVALID, ERR = 1  When INP_VALID is [1,0] - Increment OPB	CLK = ~CLK	0	1	1	2'h2	4'h6	X	X 8'h0A	0	16'h000B	0	0	0	0	0	0	PASS				
8'h09	When INP_VALID is [1,0] - Decrement OPB	CLK = ~CLK	0	1	1	2'h2	4'h7	X	8'h0A	0	16'h0009	0	0	0	0	0	0					
8'h0A	When INP_VALID is [1,0] - Increment OPB	CLK = ~CLK	0	1	1	2'h2	4'h6	X	8'hFF	0	16'h0100	1	0	0	0	0	0					
8'h0B	When INP_VALID is [1,0] - Decrement OPB	CLK = ~CLK	0	1	1	2'h2	4'h7	X	8'h00	0	16'h01FF	0	1	0	0	0	0					
8'h0C	When INP_VALID is [1,0] and CMD is INVALID, ERR = 1	CLK = ~CLK	0	1	1	2'h2	DEFAULT	X	X	0	16'h0000	0	0	0	0	0	1	PASS				
8'h0D	When INP_VALID is [1,1] - ADDITION	CLK = ~CLK	0	1	1	2'h3	4'h0	8'h08	8'h04	0	16'h000C	0	0	0	0	0	0	PASS				
8'h0E	When INP_VALID is [1,1] - ADDITION	CLK = ~CLK	0	1	1	2'h3	4'h0	8'hFF	8'h01	0	16'h0100	1	0	0	0	0	0					
8'h0F	When INP_VALID is [1,1] - SUBTRACTION	CLK = ~CLK	0	1	1	2'h3	4'h1	8'h08	8'h04	0	16'h0004	0	0	0	0	0	0					
8'h10	When INP_VALID is [1,1] - SUBTRACTION	CLK = ~CLK	0	1	1	2'h3	4'h1	8'h04	8'h08	0	16'h01FC	0	1	0	0	0	0					
8'h11	When INP_VALID is [1,1] - ADDITION with C_IN	CLK = ~CLK	0	1	1	2'h3	4'h2	8'h08	8'h04	1	16'h000D	0	0	0	0	0	0					
8'h12	When INP_VALID is [1,1] - ADDITION with C_IN	CLK = ~CLK	0	1	1	2'h3	4'h2	8'h08	8'h04	0	16'h000C	0	0	0	0	0	0					
8'h13	When INP_VALID is [1,1] - ADDITION with C_IN	CLK = ~CLK	0	1	1	2'h3	4'h2	8'hFF	8'h00	1	16'h0100	1	0	0	0	0	0					
8'h14	When INP_VALID is [1,1] - ADDITION with C_IN	CLK = ~CLK	0	1	1	2'h3	4'h2	8'hFF	8'h00	0	16'h00FF	0	0	0	0	0	0					
8'h15	When INP_VALID is [1,1] - SUBTRACTION with B_IN	CLK = ~CLK	0	1	1	2'h3	4'h3	8'h08	8'h04	1	16'h0003	0	0	0	0	0	0					
8'h16	When INP_VALID is [1,1] - SUBTRACTION with B_IN	CLK = ~CLK	0	1	1	2'h3	4'h3	8'h08	8'h04	0	16'h0004	0	0	0	0	0	0					
8'h17	When INP_VALID is [1,1] - SUBTRACTION with B_IN	CLK = ~CLK	0	1	1	2'h3	4'h3	8'h04	8'h08	1	16'h01FB	0	1	0	0	0	0					
8'h18	When INP_VALID is [1,1] - SUBTRACTION with B_IN	CLK = ~CLK	0	1	1	2'h3	4'h3	8'h04	8'h08	0	16'h01FC	0	1	0	0	0	0					
8'h19	When INP_VALID is [1,1] - SUBTRACTION with B_IN	CLK = ~CLK	0	1	1	2'h3	4'h3	8'h04	8'h04	1	16'h01FF	0	1	0	0	0	0					
8'h1A	When INP_VALID is [1,1] - SUBTRACTION with B_IN	CLK = ~CLK	0	1	1	2'h3	4'h3	8'h04	8'h04	0	16'h0000	0	0	0	0	0	0					
8'h1B	When INP_VALID is [1,1] - Increment OPA	CLK = ~CLK	0	1	1	2'h3	4'h4	8'h0A	Х	0	16'h000B	0	0	0	0	0	0					
8'h1C	When INP_VALID is [1,1] - Increment OPA	CLK = ~CLK	0	1	1	2'h3	4'h4	8'hFF	Х	0	16'h0100	1	0	0	0	0	0					
8'h1D	When INP_VALID is [1,1] - Decrement OPA	CLK = ~CLK	0	1	1	2'h3	4'h5	8'h0A	Х	0	16'h0009	0	0	0	0	0	0					
8'h1E	When INP_VALID is [1,1] - Decrement OPA	CLK = ~CLK	0	1	1	2'h3	4'h5	8'h00	Х	0	16'h01FF	0	1	0	0	0	0					
0'b 4 F	When IND VALID is [4.4] Increment ODD	CIK = CIK	0	1	1	2162	A!ho	V	01604	0	16160000	0	0	0			0	DACC				
8'h1F 8'h20	When INP_VALID is [1,1] - Increment OPB	CLK = ~CLK	0	1	1	2'h3 2'h3	4'h6 4'h6	X	8'h0A 8'hFF	0	16'h000B 16'h0100	0	0	0	0	0	0					
01120	When INP_VALID is [1,1] - Increment OPB	OLK = ~OLK	U			2113	4110	^	OHFF	U	10110100		U	U	U	U	U					
8'h21	When INP_VALID is [1,1] - Decrement OPB	CLK = ~CLK	0	1	1	2'h3	4'h7	Х	8'h0A	0	16'h0009	0	0	0	0	0	0					
8'h22	When INP_VALID is [1,1] - Decrement OPB	CLK = ~CLK	0	1	1	2'h3	4'h7	X	8'h00	0	16'h01FF	0	1	0	0	0	0					
8'h23	When INP_VALID is [1,1] - Unsigned Comparison (OPA=OPB)	CLK = ~CLK	0	1	1	2'h3	4'h8	8'h09	8'h09	0	16'h0000	0	0	1	0	0	0					
8'h24	When INP_VALID is [1,1] - Unsigned Comparison (OPA>OPB)	CLK = ~CLK	0	1	1	2'h3	4'h8	8'h09	8'h02	0	16'h0000	0	0	0	1	0	0					
8'h25	When INP_VALID is [1,1] - Unsigned Comparison (OPA <opb)< td=""><td>CLK = ~CLK</td><td>0</td><td>1</td><td>1</td><td>2'h3</td><td>4'h8</td><td>8'h02</td><td>8'h09</td><td>0</td><td>16'h0000</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>0</td><td></td></opb)<>	CLK = ~CLK	0	1	1	2'h3	4'h8	8'h02	8'h09	0	16'h0000	0	0	0	0	1	0					
8'h26	When INP_VALID is [1,1] - Multiplication - (OPA+1) x (OPB+1)	CLK = ~CLK	0	1	1	2'h3	4'h9	8'h04	8'h08	0	16'h001E	0	0	0	0	0	0					
8'h27	When INP_VALID is [1,1] - Multiplication - (OPA+1) x (OPB+1)	CLK = ~CLK	0	1	1	2'h3	4'h9	8'hFE	8'hFE	0	16'hFE01	0	0	0	0	0	0					
8'h28	When INP_VALID is [1,1] - Multiplication - (OPA+1) x (OPB+1)	CLK = ~CLK	0	1	1	2'h3	4'h9	8'h01	8'h00	0	16'h0002	0	0	0	0	0	0					
8'h29	When INP_VALID is [1,1] - Multiplication - (OPA+1) x (OPB+1)	CLK = ~CLK	0	1	1	2'h3	4'h9	8'h03	8'h00	0	16'h0004	0	0	0	0	0	0					

					AL	U PROJE	CT TES	ST PLA	N									
	INPUT OUTPUT																	
FEATURE ID	FEATURE	CLK	RST	CE	MODE	INP_VALID	CMD	OPA	ОРВ	CIN	RES	COUT	OFLOW	Е	G	L	ERR	STATUS
8'h2A	When INP_VALID is [1,1] - Multiplication - (OPA+1) x (OPB+1)	CLK = ~CLK	0	1	1	2'h3	4'h9	8'hFF	8'h00	0	16'h0100	0	0	0	0	0	0	PASS
8'h2B	When INP_VALID is [1,1] - Multiplication - (OPA+1) x (OPB+1)	CLK = ~CLK	0	1	1	2'h3	4'h9	8'hFF	8'hFF	0	16'h0000	0	0	0	0	0	0	
8'h2C	When INP_VALID is [1,1] - Multiplication - (OPA+1) x (OPB+1)	CLK = ~CLK	0	1	1	2'h3	4'h9	8'h03	8'h04	0	16'h0014	0	0	0	0	0	0	
8'h2D	When INP_VALID is [1,1] - Multiplication - (OPA << 1) x (OPB)	CLK = ~CLK	0	1	1	2'h3	4'hA	8'h04	8'h08	0	16'h0040	0	0	0	0	0	0	
8'h2E	When INP_VALID is [1,1] - Multiplication - (OPA << 1) x (OPB)	CLK = ~CLK	0	1	1	2'h3	4'hA	8'FF	8'hFE	0	16'hFC04	0	0	0	0	0	0	
8'h2F	When INP_VALID is [1,1] - Multiplication - (OPA << 1) x (OPB)	CLK = ~CLK	0	1	1	2'h3	4'hA	8'h23	8'h00	0	16'h0000	0	0	0	0	0	0	
8'h30	When INP_VALID is [1,1] - Multiplication - (OPA << 1) x (OPB)	CLK = ~CLK	0	1	1	2'h3	4'hA	8'h0A	8'hFF	0	16'h13EC	0	0	0	0	0	0	
8'h31	When INP_VALID is [1,1] - Multiplication - (OPA << 1) x (OPB)	CLK = ~CLK	0	1	1	2'h3	4'hA	8'h43	8'h04	0	16'h0218	0	0	0	0	0	0	
8'h32	When INP_VALID is [1,1] - Increment OPB	CLK = ~CLK	0	1	1	2'h2	4'h6	8'hFF	8'hFF	0	16'h0100	1	0	0	0	0	0	
8'h33	When INP_VALID is [1,1] - Signed Addition and Comparison	CLK = ~CLK	0	1	1	2'h3	4'hB	8'h02	8'h08	0	16'h000A	0	0	0	0	1	0	
8'h34	When INP_VALID is [1,1] - Signed Addition and Comparison	CLK = ~CLK	0	1	1	2'h3	4'hB	8'h7F	8'h01	0	16'h0080	0	1	0	1	0	0	
8'h35	When INP_VALID is [1,1] - Signed Addition and Comparison	CLK = ~CLK	0	1	1	2'h3	4'hB	8'h01	8'hFF	0	16'h0000	0	0	0	1	0	0	
8'h36	When INP_VALID is [1,1] - Signed Addition and Comparison	CLK = ~CLK	0	1	1	2'h3	4'hB	8'h01	8'h80	0	16'h0181	1	0	0	1	0	0	
8'h37	When INP_VALID is [1,1] - Signed Addition and Comparison	CLK = ~CLK	0	1	1	2'h3	4'hB	8'hFF	8'h02	0	16'h0001	0	0	0	0	1	0	
8'h38	When INP_VALID is [1,1] - Signed Addition and Comparison	CLK = ~CLK	0	1	1	2'h3	4'hB	8'h7F	8'h81	0	16'h0000	0	0	0	1	0	0	
8'h39	When INP_VALID is [1,1] - Signed Addition and Comparison	CLK = ~CLK	0	1	1	2'h3	4'hB	8'h80	8'hFF	0	16'h017F	1	1	0	0	1	0	
8'h3A	When INP_VALID is [1,1] - Signed Addition and Comparison	CLK = ~CLK	0	1	1	2'h3	4'hB	8'h7F	8'h7F	0	16'h00FE	0	1	1	0	0	0	
8'h3B	When INP_VALID is [1,1] - Signed Subtraction and Comparison	CLK = ~CLK	0	1	1	2'h3	4'hC	8'h09	8'h02	0	16'h0007	0	0	0	1	0	0	
8'h3C	When INP_VALID is [1,1] - Signed Subtraction and Comparison	CLK = ~CLK	0	1	1	2'h3	4'hC	8'h02	8'h09	0	16'h01F9	0	0	0	0	1	0	
8'h3D	When INP_VALID is [1,1] - Signed Subtraction and Comparison	CLK = ~CLK	0	1	1	2'h3	4'hC	8'h80	8'h01	0	16'h017F	0	1	0	0	1	0	
8'h3E	When INP_VALID is [1,1] - Signed Subtraction and Comparison	CLK = ~CLK	0	1	1	2'h3	4'hC	8'h7F	8'hFF	0	16'h0080	0	1	0	1	0	0	
8'h3F	When INP_VALID is [1,1] - Signed Subtraction and Comparison	CLK = ~CLK	0	1	1	2'h3	4'hC	8'h04	8'h04	0	16'h0000	0	0	1	0	0	0	
8'h40	When INP_VALID is [1,1] - Signed Subtraction and Comparison	CLK = ~CLK	0	1	1	2'h3	4'hC	8'h81	8'h05	0	16'h017C	0	1	0	0	1	0	
8'h41	When INP_VALID is [1,1] - Signed Subtraction and Comparison	CLK = ~CLK	0	1	1	2'h3	4'hC	8'h0A	8'h88	0	16'h0082	0	0	0	0	0	0	
8'h42 8'h43	When INP_VALID is [1,1] - Signed Subtraction and Comparison	CLK = ~CLK	0	1	1	2'h3 2'h3	4'hC 4'hC	8'h01 8'h01	8'h01 8'h7F	0	16'h0000	0	0	0	0	0	0	
8'h44	When INP_VALID is [1,1] - Signed Subtraction and Comparison	CLK = ~CLK	0	1	1	2'h3	4 hC	8'h01	8'hFF	0	16'h0182 16'h0002	0	0	0	1	0	0	
8'h45	When INP_VALID is [1,1] - Signed Subtraction and Comparison When INP_VALID is [1,1] - Signed Subtraction and Comparison	CLK = ~CLK	0	1	1	2'h3	4'hC	8'h01	8'h80	0	16'h0081	0	1	0	1	0	0	
8'h46	When INP_VALID is [1,1] - Signed Subtraction and Comparison	CLK = ~CLK	0	1	1	2'h3	4'hC	8'h7F	8'h7F	0	16'h0000	0	0	1	0	0	0	
8'h47	When INP_VALID is [1,1] - Signed Subtraction and Comparison	CLK = ~CLK	0	1	1	2'h3	4'hC	8'h7F	8'h80	0	16'h00FF	0	1	0	1	0	0	
8'h48	When INP_VALID is [1,1] - Signed Subtraction and Comparison	CLK = ~CLK	0	1	1	2'h3	4'hC	8'h00	8'h00	0	16'h0000	0	0	1	0	0	0	
8'h49	When INP_VALID is [1,1] and CMD is INVALID, ERR = 1	CLK = ~CLK	0	1	1	2'h3	DEFAULT	Х	Х	0	16'h0000	0	0	0	0	0	1	PASS
									ogical C	)norati	ne .							
011- 4.5	Witness INID VALID Is 10.03 FREST (1.11)	OLIV OLIV				0". 2	,,			•								DAGO
8'h4A	When INP_VALID is [0,0], ERROR flag will be high, ERR = 1	CLK = ~CLK	0	1	0	2'h0	X 4'b6	X 8'hF0	X	0	16'h0000	0	0	0	0	0	0	PASS
8'h4B 8'h4C	When INP_VALID is [0,1] - Bitwise NOT - OPA  When INP_VALID is [0,1] - Shift Right - OPA	CLK = ~CLK	0	1	0	2'h1 2'h1	4'h6 4'h8	8'hF0	X	0	16'h000F 16'h0078	0	0	0	0	0	0	
8'h4D	When INP_VALID is [0,1] - Shift Left - OPA  When INP_VALID is [0,1] - Shift Left - OPA	CLK = ~CLK	0	1	0	2'h1	4116 4'h9	8'hF0	X	0	16'h00E0	0	0	0	0	0	0	
8'h4E	When INP_VALID is [0,1] - SHITLERT - OPA  When INP_VALID is [0,1] and CMD is INVALID, ERR = 1	CLK = ~CLK	0	1	0	2'h1	DEFAULT	X	X	0	16'h0000	0	0	0	0	0	1	PASS
8'h4F	When INP_VALID is [1,0] - Bitwise NOT - OPB	CLK = ~CLK	0	1	0	2'h2	4'h7	X	8'hAA	0	16'h0055	0	0	0	0	0	0	PASS
8'h50	When INP_VALID is [1,0] - Shift Right - OPB	CLK = ~CLK	0	1	0	2'h2	4'hA	X	8'hAF	0	16'h0057	0	0	0	0	0	0	
8'h51	When INP_VALID is [1,0] - Shift Left - OPB	CLK = ~CLK	0	1	0	2'h2	4'hB	X	8'h3E	0	16'h007C	0	0	0	0	0	0	
8'h52	When INP_VALID is [1,0] and CMD is INVALID, ERR = 1	CLK = ~CLK	0	1	0	2'h2	DEFAULT	X	X	0	16'h0000	0	0	0	0	0	1	PASS
8'h53	When INP_VALID is [1,1] - Bitwise AND	CLK = ~CLK	0	1	0	2'h3	4'h0	8'hA4	8'hC3	0	16'h0080	0	0	0	0	0	0	PASS
8'h54	When INP_VALID is [1,1] - Bitwise NAND	CLK = ~CLK	0	1	0	2'h3	4'h1	8'hA4	8'hC3	0	16'h007F	0	0	0	0	0	0	
8'h55	When INP_VALID is [1,1] - Bitwise OR	CLK = ~CLK	0	1	0	2'h3	4'h2	8'hA4	8'hC3	0	16'h00E7	0	0	0	0	0	0	
8'h56	When INP_VALID is [1,1] - Bitwise NOR	CLK = ~CLK	0	1	0	2'h3	4'h3	8'hA4	8'hC3	0	16'h0018	0	0	0	0	0	0	
8'h57	When INP_VALID is [1,1] - Bitwise XOR	CLK = ~CLK	0	1	0	2'h3	4'h4	8'hA4	8'hC3	0	16'h0067	0	0	0	0	0	0	

ALU PROJECT TEST PLAN																		
			OUTPUT															
FEATURE ID	FEATURE	CLK	RST	CE	MODE	INP_VALID	CMD	OPA	ОРВ	CIN	RES	COUT	OFLOW	E	G	L	ERR	STATUS
8'h58	When INP_VALID is [1,1] - Bitwise XNOR	CLK = ~CLK	0	1	0	2'h3	4'h5	8'hA4	8'hC3	0	16'h0098	0	0	0	0	0	0	PASS
8'h59	When INP_VALID is [1,1] - Bitwise NOT - OPA	CLK = ~CLK	0	1	0	2'h3	4'h6	8'h05	8'h08	0	16'h00FA	0	0	0	0	0	0	
8'h5A	When INP_VALID is [1,1] - Bitwise NOT - OPB	CLK = ~CLK	0	1	0	2'h3	4'h7	8'h05	8'h08	0	16'h00F7	0	0	0	0	0	0	
8'h5B	When INP_VALID is [1,1] - Shift Right - OPA	CLK = ~CLK	0	1	0	2'h3	4'h8	8'h05	8'h08	0	16'h0002	0	0	0	0	0	0	
8'h5C	When INP_VALID is [1,1] - Shift Left - OPA	CLK = ~CLK	0	1	0	2'h3	4'h9	8'h05	8'h08	0	16'h000A	0	0	0	0	0	0	
8'h5D	When INP_VALID is [1,1] - Shift Right - OPB	CLK = ~CLK	0	1	0	2'h3	4'hA	8'h05	8'h08	0	16'h0004	0	0	0	0	0	0	
8'h5E	When INP_VALID is [1,1] - Shift Left - OPB	CLK = ~CLK	0	1	0	2'h3	4'hB	8'h05	8'h08	0	16'h0010	0	0	0	0	0	0	
8'h5F	When INP_VALID is [1,1] - Rotate Left - OPA by OPB(0)	CLK = ~CLK	0	1	0	2'h3	4'hC	8'h86	8'h00	0	16'h0086	0	0	0	0	0	0	
8'h60	When INP_VALID is [1,1] - Rotate Left - OPA by OPB(1)	CLK = ~CLK	0	1	0	2'h3	4'hC	8'h86	8'h01	0	16'h000D	0	0	0	0	0	0	
8'h61	When INP_VALID is [1,1] - Rotate Left - OPA by OPB(2)	CLK = ~CLK	0	1	0	2'h3	4'hC	8'h86	8'h02	0	16'h001A	0	0	0	0	0	0	
8'h62	When INP_VALID is [1,1] - Rotate Left - OPA by OPB(3)	CLK = ~CLK	0	1	0	2'h3	4'hC	8'h86	8'h03	0	16'h0034	0	0	0	0	0	0	
8'h63	When INP_VALID is [1,1] - Rotate Left - OPA by OPB(4)	CLK = ~CLK	0	1	0	2'h3	4'hC	8'h86	8'h04	0	16'h0068	0	0	0	0	0	0	
8'h64	When INP_VALID is [1,1] - Rotate Left - OPA by OPB(5)	CLK = ~CLK	0	1	0	2'h3	4'hC	8'h86	8'h05	0	16'h00D0	0	0	0	0	0	0	
8'h65	When INP_VALID is [1,1] - Rotate Left - OPA by OPB(6)	CLK = ~CLK	0	1	0	2'h3	4'hC	8'h86	8'h06	0	16'h00A1	0	0	0	0	0	0	
8'h66	When INP_VALID is [1,1] - Rotate Left - OPA by OPB(7)	CLK = ~CLK	0	1	0	2'h3	4'hC	8'h86	8'h07	0	16'h0043	0	0	0	0	0	0	
8'h67	When INP_VALID is [1,1] - Rotate Left - OPA by OPB(8)	CLK = ~CLK	0	1	0	2'h3	4'hC	8'h86	8'h08	0	16'h0086	0	0	0	0	0	0	
8'h68	When INP_VALID is [1,1] - Rotate Left - ERROR = 1	CLK = ~CLK	0	1	0	2'h3	4'hC	8'h86	8'h23	0	16'h0034	0	0	0	0	0	1	PASS
8'h69	When INP_VALID is [1,1] - Rotate Right - OPA by OPB(0)	CLK = ~CLK	0	1	0	2'h3	4'hD	8'hAB	8'h00	0	16'h00AB	0	0	0	0	0	0	
8'h6A	When INP_VALID is [1,1] - Rotate Right - OPA by OPB(1)	CLK = ~CLK	0	1	0	2'h3	4'hD	8'hAB	8'h01	0	16'h00D5	0	0	0	0	0	0	
8'h6B	When INP_VALID is [1,1] - Rotate Right - OPA by OPB(2)	CLK = ~CLK	0	1	0	2'h3	4'hD	8'hAB	8'h02	0	16'h00EA	0	0	0	0	0	0	
8'h6C	When INP_VALID is [1,1] - Rotate Right - OPA by OPB(3)	CLK = ~CLK	0	1	0	2'h3	4'hD	8'hAB	8'h03	0	16'h0075	0	0	0	0	0	0	
8'h6D	When INP_VALID is [1,1] - Rotate Right - OPA by OPB(4)	CLK = ~CLK	0	1	0	2'h3	4'hD	8'hAB	8'h04	0	16'h00BA	0	0	0	0	0	0	
8'h6E	When INP_VALID is [1,1] - Rotate Right - OPA by OPB(5)	CLK = ~CLK	0	1	0	2'h3	4'hD	8'hAB	8'h05	0	16'h005D	0	0	0	0	0	0	
8'h6F	When INP_VALID is [1,1] - Rotate Right - OPA by OPB(6)	CLK = ~CLK	0	1	0	2'h3	4'hD	8'hAB	8'h06	0	16'h00AE	0	0	0	0	0	0	
8'h70	When INP_VALID is [1,1] - Rotate Right - OPA by OPB(7)	CLK = ~CLK	0	1	0	2'h3	4'hD	8'hAB	8'h07	0	16'h0057	0	0	0	0	0	0	
8'h71	When INP_VALID is [1,1] - Rotate Right - OPA by OPB(8)	CLK = ~CLK	0	1	0	2'h3	4'hD	8'hAB	8'h08	0	16'h00AB	0	0	0	0	0	0	
8'h72	When INP_VALID is [1,1] - Rotate Right - ERROR = 1	CLK = ~CLK	0	1	0	2'h3	4'hD	8'hAB	8'h24	0	16'h00BA	0	0	0	0	0	1	
8'h73	When INP_VALID is [1,1] and CMD is INVALID, ERR = 1	CLK = ~CLK	0	1	0	2'h3	DEFAULT	Х	Х	0	16'h0000	0	0	0	0	0	1	PASS
8'h74	When INP_VALID is [1,1] - ADDITION	CLK = ~CLK	0	1	1	3	0	8'h08	8'h04	0	8'h000C	0	0	0	0	0	0	
8'h75	When INP_VALID is [1,1] - ADDITION	CLK = ~CLK	0	1	1	3	0	8'h09	8'h04	0	8'h000D	0	0	0	0	0	0	
8'h76	When Reset is 0 and CE is 0 all outputs are ZERO	CLK = ~CLK	0	0	0	3	D	AB	24	0	8'h0000	0	0	0	0	0	0	