#### EE309 PROJECT -1

## RISC – IITB MULTICYCLE IMPLEMENTATION

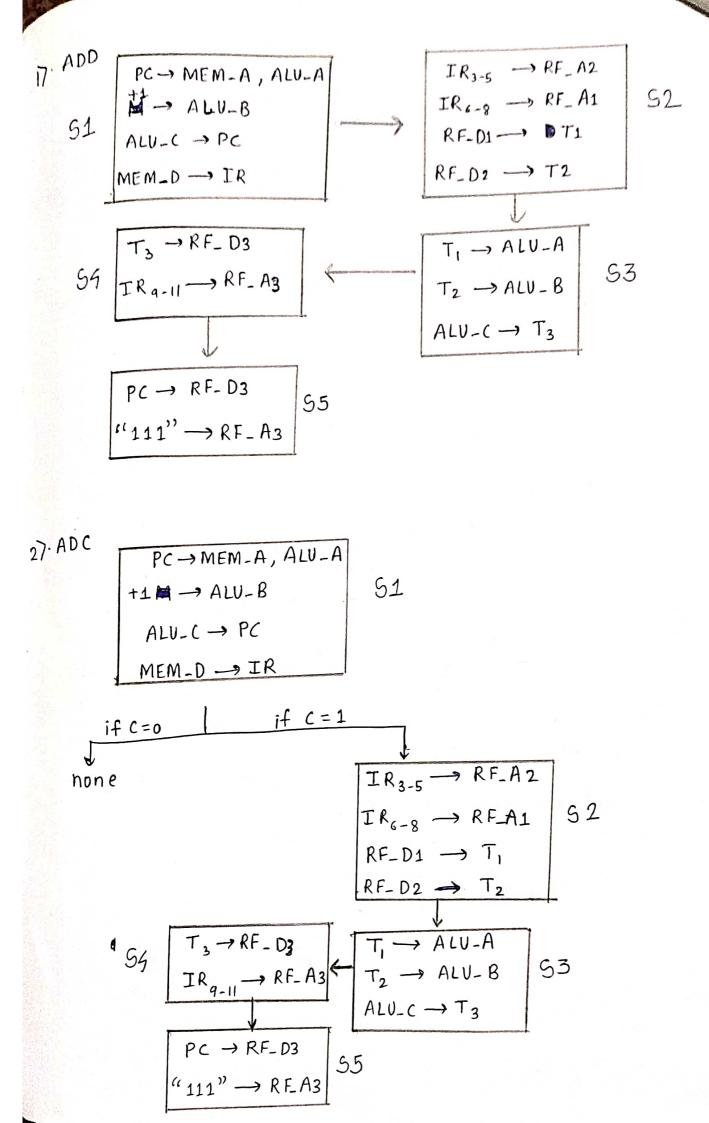
BY -

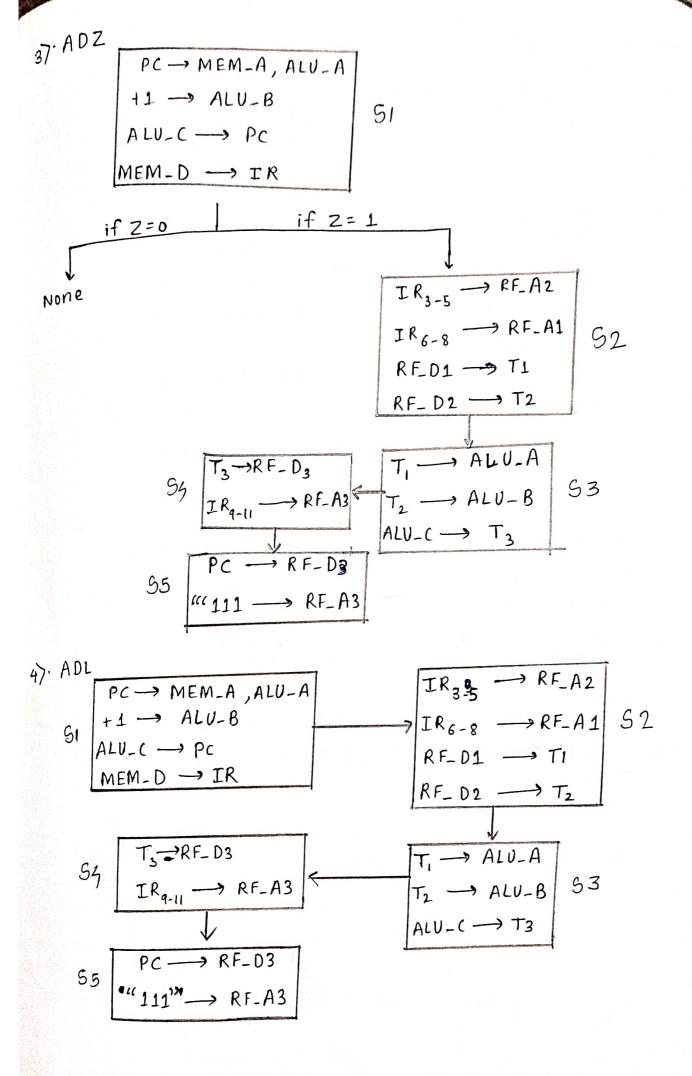
HARSHWARDHAN WAGHCHOURE (20D070036)

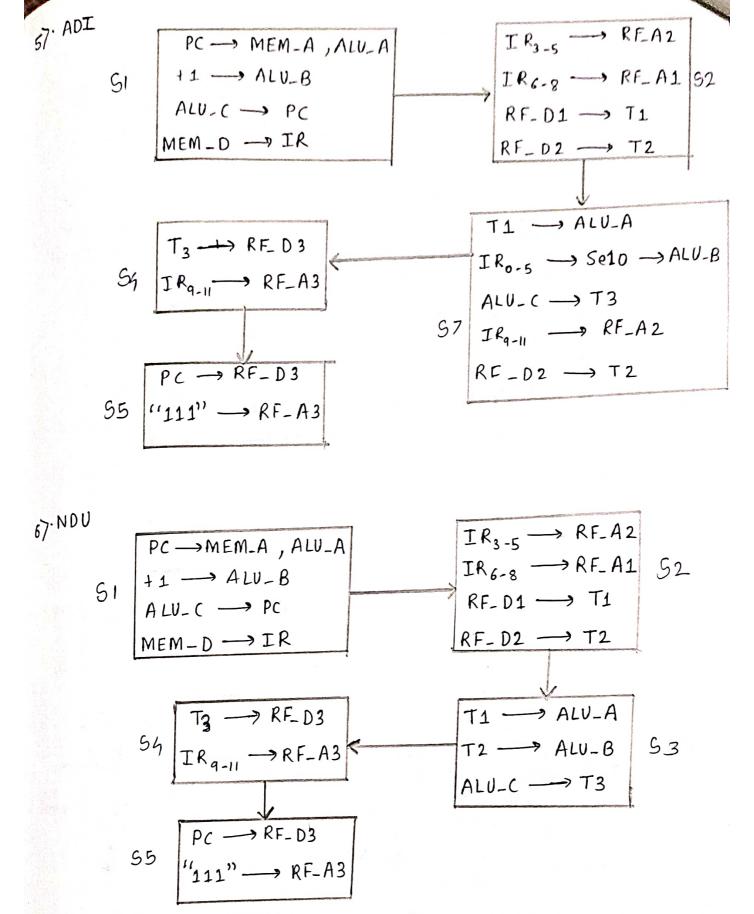
MOHIT (20D070052)

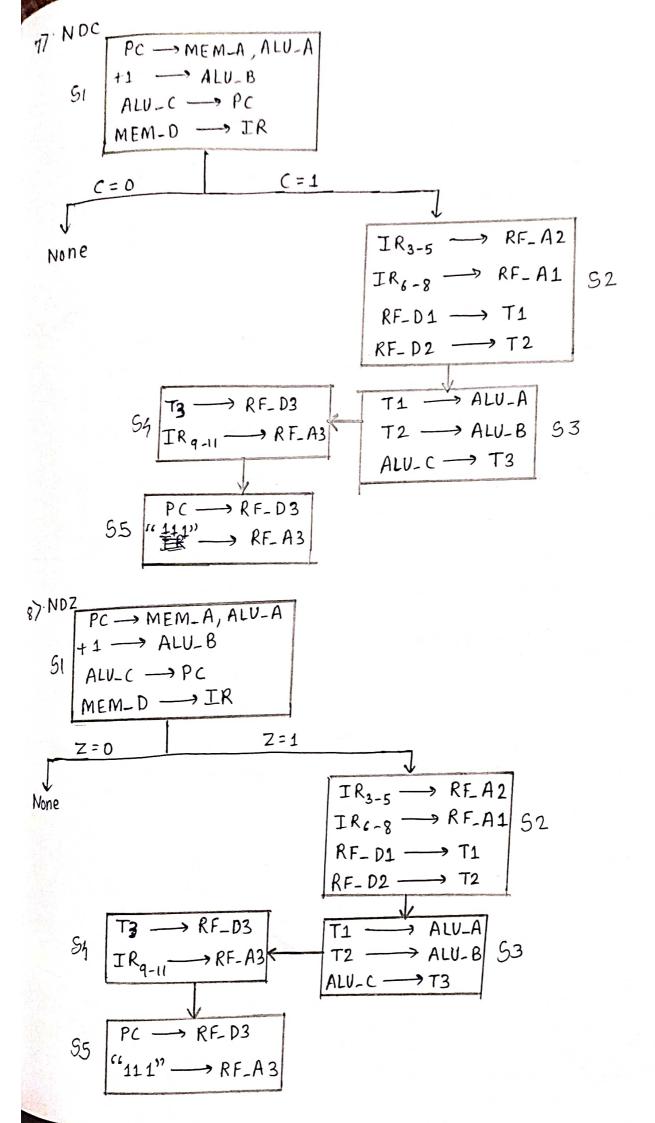
RITAM BARAI (20D070064)

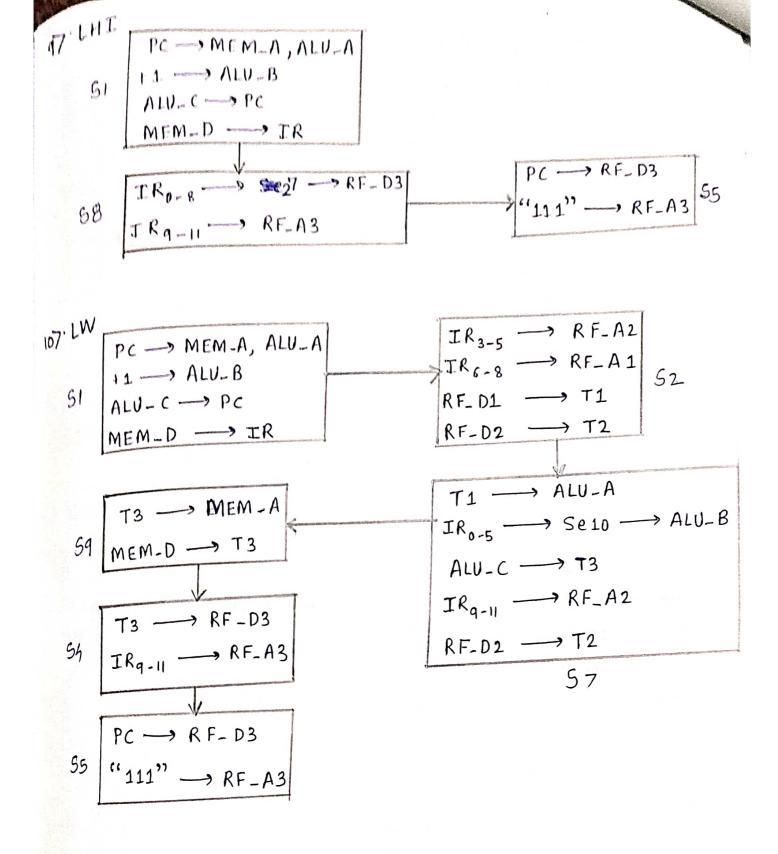
SARTHAK ABHAY TONAPE (20D070084)

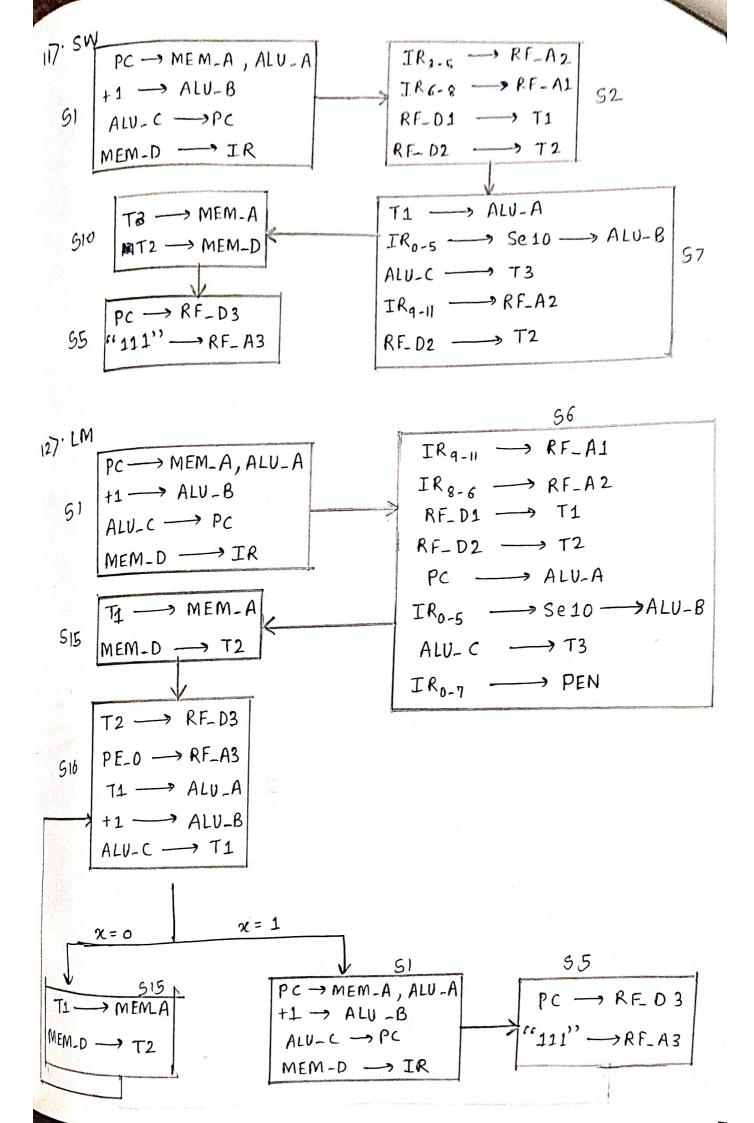


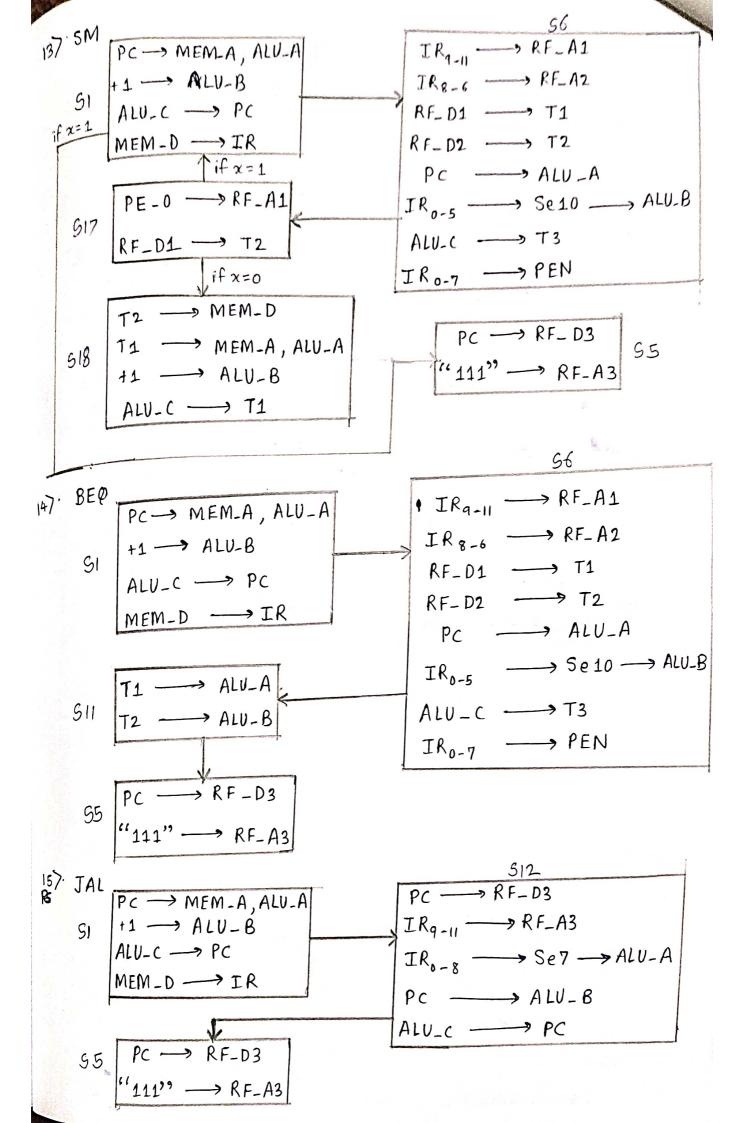


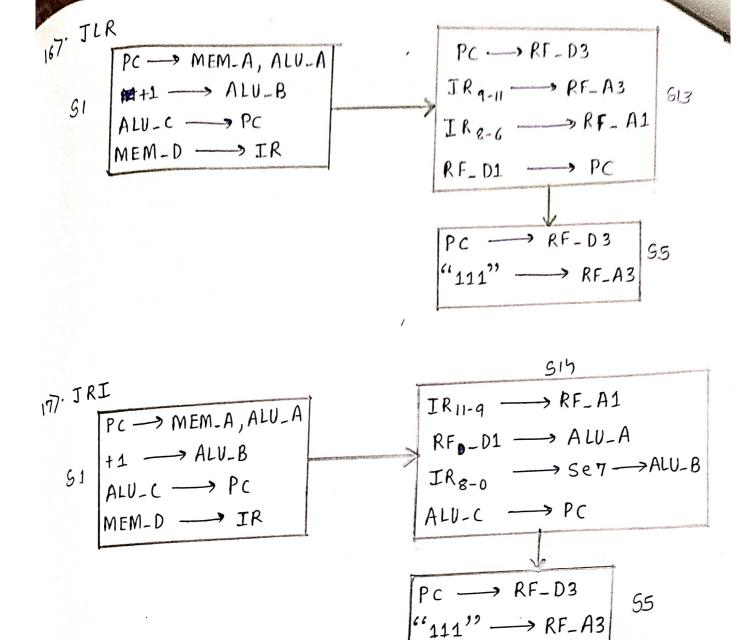




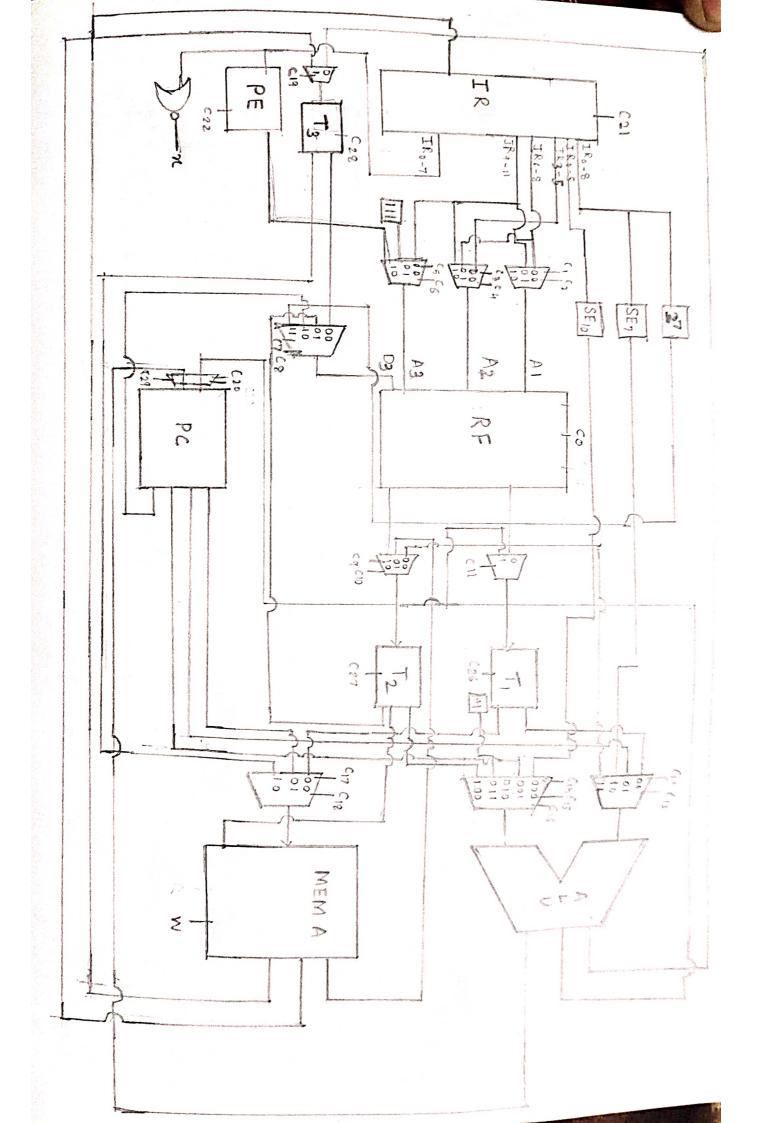




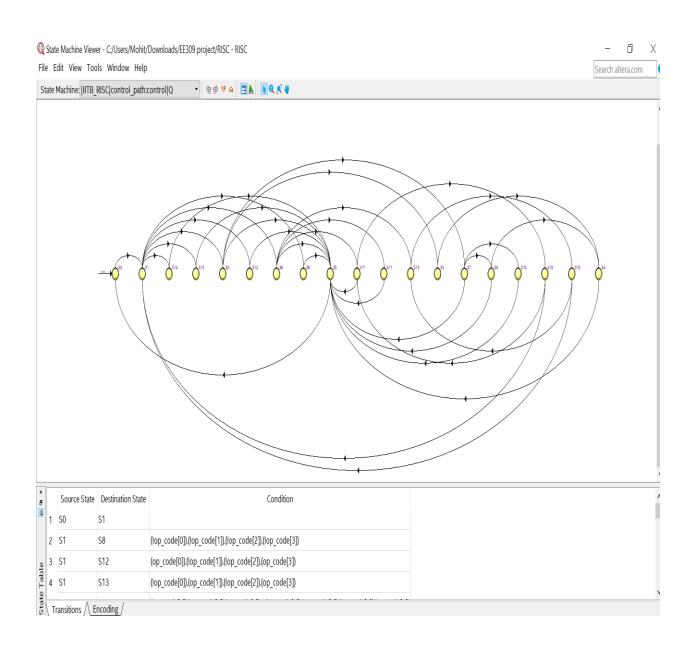




No. of states: - 18 No. of control pins: - 28



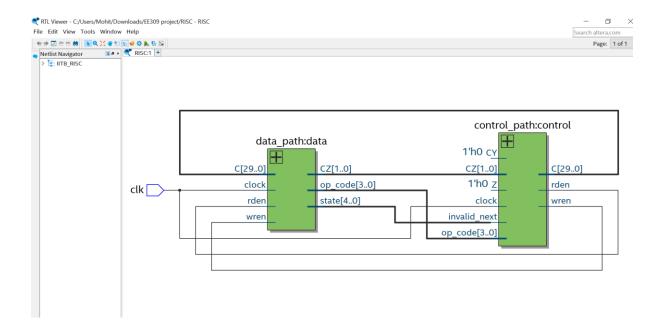
# STATE TRANSITION MACHINE



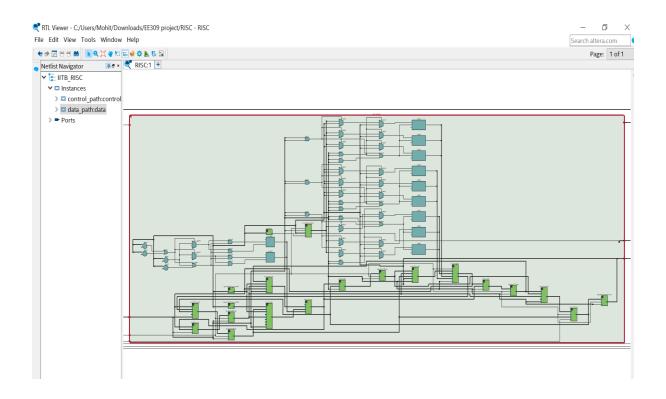
#### CONTROL FLOWCHART

	W	00		C1	02	C3	C4		C5	C6	C7	C8	09	C10	C11	C12		C13	C14	C15	C16	C17	C18	C19	C20	C21	C22	C26	C27	C28	C29
S1		0	0													1	(	)	1	0	1	1	0	1			1	0	0	0	0 1
S2			1	. (	)	0	0	0						1	0	0											0	0	1	1	0 0
S3			0														(	)	)	1	0	0			0		0	0	0	0	1 0
i S4			1						(	)	0	0	0														0	0	0	0	0 0
S5			1						(	)	1	1	0														0	0	0	0	0 0
' S6			1	. (	)	1	0	1						1	0	0	(	)	1	0	0	0			0		0	1	1	1	1 0
S7			1				1	0						1	0		(	)	)	0	0	0			0		0	0	0	1	1 0
S8 8			1						(	)	0	1	1														0	0	0	0	0 0
) S9		0	0																				1	0	1		0	0	0	0	1 0
S10		1	0																				1	0			0	0	0	0	0 0
S11			0														(	)	)	1	0	0				1	0	0	0	0	0 0
S12			1						(	)	0	1	0				1	l	)	0	0	1					0	0	0	0	0 1
\$13			1	. (	)	0			(	)	0	1	0													0	0	0	0	0	0 1
S14			1	. (	)	1											1	l	1	0	1	0				1	0	0	0	0	0 1
\$15		0	0											0	1								0	0			0	0	0	1	0 0
7 S16			1						1	1	0	0	1			1	(	)	)	0	1	1					0	1	1	0	0 0
S17			1			0								0	0												0	1	0	1	0 0
S18		1	0													1	(	)	)	0	1	1	0				0	0	1	0	0 0

### IITB\_RISC



#### DATA PATH



#### **CONTROL PATH**

