

Instruction	Opcode	RegWrite	AluSrc	Branch	MemRe	MemWr	MemtoReg	ALUOp
R-type	0110011	1	0	50	0		0	10
I-type	0010011			00	0	0		00
lw	0000011		/	00	_	()		00
SW	0100011	0		00	0	/		00
BLT	1100011		0	01	0	0		01
JALR	1100111			10	0			00
)				•				•

- 1. The total number of cycles for running "All" trace is 14 cycles.
- 2. There are two R-type instructions
- 3. IPC of the processor is 1, because for one cycle(one while loop iteration), only one instruction is fetched and being ran.