				Input				Control out	tnute			BRAOP					Input bits				Output bits				
INUM	Instruc	ix Mnemonic	Format	opcode	funct3	funct7	funct6		MST	RFW		ALUSICA ALL	SrcB	PCsel	WDsel	BRA OP	opcode	funct3	funct7	funct6	Output bits				
0	addi	ADDI	I	0010011	000	XXXXXXX	xxxxxx	0	0	1	000	0 001		00	00	00	0b0010011	0b000	Obxxxxxxx	Obxxxxxx	060010000001000000				
1	add	ADD	R	0110011	000	0000000	XXXXXX	0	0	1		0 000		00	00	00	0ь0110011	0ь000	0ь0000000	0bxxxxxx	0600100000000000000				
2	jal	JAL	J	1101111	XXX	XXXXXXXX		0	0	1		1 010		01	01	00	0b1101111	0bxxx	0bxxxxxxxx	0bxxxxxx	0b0010001010010100				
3		JALR	L	1100111	000	XXXXXXXX		0	0	1		0 001			01	00	0b1100111	0b000	0bxxxxxxx	0bxxxxxx	0b0010000001010100				
4 5	sub	SUB	R R	0110011	000	0100000	XXXXXXX	0	0	1	001 011	0 000		01 00	00	00	0b0110011 0b0110011	0b000	0b0100000 0b0000001	Obxxxxxx Obxxxxxx	0b0010010000010000 0b0010110000000000				
6	sll	SLL	R	0110011	001	0000000		0	0	1		0 000		00	00	00	0	06001	060000000	Obxxxxx	060011000000000000		0		
7	slli	SLLI	ı	0010011	001	xxxxxxx		0	0	1		0 000			00	00	0b0010011	0b001 0b001	060000000	Obxxxxxx	0b001100000100000		U		
8	srl	SRL	R	0110011	101	0000000	XXXXXX	0	0	1		0 000		00	00	00	0b0010011	0b101	0b0000000	Obxxxxx	060011000001000000				
9	srli	SRLI	1	0010011	101	XXXXXXXX	XXXXXX	0	0	1		0 001			00	00	0ь0010011	0b101	0ь0000000	Obxxxxxx	0b0011100001000000				
10	beq	BEQ	В	1100011	000	XXXXXX	xxxxxx	0	0	1		1 011		01	01	00	0ь1100011	0b000	0bxxxxxxxx	0bxxxxxx	0b0010001011010100	beq			
11	blt	BLT	В	1100011	100	XXXXXXX	XXXXXX	0	0	1	000	1 011		01	01	01	0ь1100011	0b001	0bxxxxxxxxx	0bxxxxxx	0b0010001011010101	bit			
12	bge	BGE	В	1100011	101	XXXXXXX	XXXXXXX	0	0	1	000	1 011		01	01	10	0b1100011	0b010	0bxxxxxxxx	0bxxxxxx	0b0010001011010110	bge			
13	bne	BNE	В	1100011	001		XXXXXX	0	0	1		1 011			01	11	0b1100011	0b011	Obxxxxxxx	0bxxxxxx	0b0010001011010111	bne			
14	ld sd	LD	1	0000011	011	XXXXXXXX	XXXXXX	1	0	1		0 001			10	00	0b0000011	0b011	0bxxxxxxx	Obxxxxxx	0b1010000001001000				
15 16	lw	SD LW	S	0100011	011	XXXXXXXX	XXXXXX	0	0	0		0 001		00	10	00	0b0100011 0b0000011	0b011 0b010	Obxxxxxxx Obxxxxxxx	Obxxxxxx Obxxxxxx	0b010000001001000 0b0010000001000000				
17	SW	SW	S	0100011	010	XXXXXX	XXXXXX	0	0	0		0 001			00	00	0b0100011	0b010 0b010	Obxxxxxx	Obxxxxx	0b0000000001000000				
18	slti	SLTI	1	0010011	010	xxxxxx	xxxxxx	0	0	1		0 001		00	00	00	0ь0010011	0b011	0bxxxxxxxx	Obxxxxxx	0b0011010001000000				
19	slt	SLT	R	0110011	010	0000000	XXXXXX	0	0	1		0 000			00	00	0ь0110011	0b010	0ь0000000	0bxxxxxx	0600110000000000000				
20	lb	LB	I	0000011	000	XXXXXX	xxxxxx	0	0	1		0 001		00	00	00	0ь0000011	0b000	Obxxxxxxx	0bxxxxxx	0b0011000001000000				
21		LBU	L	0000011	100	XXXXXXX	XXXXXX	0	0	1		0 001			00	00	0b0000011	0b100	0bxxxxxxxx	0bxxxxxx	0b0011010001000000				
22		AND OR	R R	0110011	111	0000000	XXXXXXX	0	0	1		0 000		00	00	00	0b0110011	0b111	060000000	Obxxxxxx	0600101000000000000				
23 24	or	UK	К	0110011	110	0000000	XXXXXX	ľ	U	1	011	0 000		00	00	00	0b0110011	0b110	0ь0000000	0bxxxxxx	0b0010110000000000				
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