op-code	funct3	N	lain mem read [3:0]	
0000011	000	LB	1000	
			1	
0000011	001	LH	1001	
0000011	010	LW	1010	
0000011	100	LBU	1100	
0000011	101	LHU	1101	
oparand 1 MUX			oparand 2 MUX	
1	PC			immediate
0	REG_DATA1			REG_DATA2
0	INLO_D/(I/(I		0	NEO_DAIAZ
Dog with a last	MILLY E4-03			Immidiate Calast [0:0]
Reg write select			TVDE 4	Immidiate Select [3:0]
	MEM_READ		TYPE 1	u000
	ALU result		TYPE 2	u001
	xx		TYPE 3	u010
11	PC+4		TYPE 4	u011
			TYPE 5	u100
			TYPE 6	u101
on code	funct2	M	oin mom unito [2,01	
op-code	funct3		ain mem write [2:0]	
0100011	000	SB	100	
0100011 0100011	000	SB SH	100 101	
0100011	000	SB	100	
0100011 0100011	000	SB SH	100 101	
0100011 0100011 0100011	000 001 010	SB SH	100 101 110	
0100011 0100011	000 001 010 ding MUX	SB SH	100 101	
0100011 0100011 0100011	000 001 010 ding MUX	SB SH	100 101 110	ling MUX Regular Value
0100011 0100011 0100011 oparand 1 foward	000 001 010 ding MUX	SB SH	100 101 110 oparand 2 forward	Regular Value
0100011 0100011 0100011 oparand 1 foward	000 001 010 ding MUX Regular Value	SB SH	100 101 110 oparand 2 forward	
0100011 0100011 0100011 oparand 1 foward	000 001 010 ding MUX Regular Value Fowarded Stage	SB SH	100 101 110 oparand 2 forward	Regular Value Fowarded Stage 4
0100011 0100011 0100011 0parand 1 foward 00 01	ding MUX Regular Value Fowarded Stage 4 Fowarded Stage 5	SB SH SW	100 101 110 oparand 2 forward	Regular Value
0100011 0100011 0100011 0parand 1 foward 00 01	000 001 010 ding MUX Regular Value Fowarded Stage 4 Fowarded Stage	SB SH SW	100 101 110 oparand 2 forward 00 01	Regular Value Fowarded Stage 4
0100011 0100011 0100011 0parand 1 foward 00 01	ding MUX Regular Value Fowarded Stage 4 Fowarded Stage 5	SB SH SW	100 101 110 oparand 2 forward 00 01	Regular Value Fowarded Stage 4 Fowarded Stage 5
0100011 0100011 0100011 0parand 1 foward 00 01	ding MUX Regular Value Fowarded Stage 4 Fowarded Stage 5	SB SH SW	100 101 110 oparand 2 forward 00 01	Regular Value Fowarded Stage 4 Fowarded Stage 5
0100011 0100011 0100011 0parand 1 foward 00 01	000 001 010 ding MUX Regular Value Fowarded Stage 4 Fowarded Stage 5 Fowarded extra s	SB SH SW	100 101 110 oparand 2 forward 00 01	Regular Value Fowarded Stage 4 Fowarded Stage 5
0100011 0100011 0100011 0parand 1 foward 00 01 10 11	000 001 010 010 010 010 010 010 010 010	SB SH SW	100 101 110 oparand 2 forward 00 01	Regular Value Fowarded Stage 4 Fowarded Stage 5
0100011 0100011 0100011  oparand 1 foward  00  10  11  stage 4 forwardin  0	000 001 010 ding MUX Regular Value Fowarded Stage 4 Fowarded Stage 5 Fowarded extra s	SB SH SW	100 101 110 oparand 2 forward 00 01	Regular Value Fowarded Stage 4 Fowarded Stage 5
0100011 0100011 0100011  oparand 1 foward  00  10  11  stage 4 forwardin  0	000 001 010 010 010 010 010 010 010 010	SB SH SW	100 101 110 oparand 2 forward 00 01	Regular Value Fowarded Stage 4 Fowarded Stage 5
0100011 0100011 0100011  oparand 1 foward  00  10  11  stage 4 forwardin  0	000 001 010 ding MUX Regular Value Fowarded Stage 4 Fowarded Stage 5 Fowarded extra s	SB SH SW	100 101 110 oparand 2 forward 00 01	Regular Value Fowarded Stage 4 Fowarded Stage 5
0100011 0100011 0100011  oparand 1 foward  00  10  11  stage 4 forwardin  0	000 001 010 ding MUX Regular Value Fowarded Stage 4 Fowarded Stage 5 Fowarded extra s	SB SH SW	100 101 110 oparand 2 forward 00 01	Regular Value Fowarded Stage 4 Fowarded Stage 5
0100011 0100011 0100011  oparand 1 foward  00  10  11  stage 4 forwardin  0	000 001 010 ding MUX Regular Value Fowarded Stage 4 Fowarded Stage 5 Fowarded extra s	SB SH SW	100 101 110 oparand 2 forward 00 01	Regular Value Fowarded Stage 4 Fowarded Stage 5
0100011 0100011 0100011  oparand 1 foward  00  10  11  stage 4 forwardin  0	000 001 010 ding MUX Regular Value Fowarded Stage 4 Fowarded Stage 5 Fowarded extra s	SB SH SW	100 101 110 oparand 2 forward 00 01	Regular Value Fowarded Stage 4 Fowarded Stage 5
0100011 0100011 0100011  oparand 1 foward  00  10  11  stage 4 forwardin  0	000 001 010 ding MUX Regular Value Fowarded Stage 4 Fowarded Stage 5 Fowarded extra s	SB SH SW	100 101 110 oparand 2 forward 00 01	Regular Value Fowarded Stage 4 Fowarded Stage 5
0100011 0100011 0100011  oparand 1 foward  00  10  11  stage 4 forwardin  0	000 001 010 ding MUX Regular Value Fowarded Stage 4 Fowarded Stage 5 Fowarded extra s	SB SH SW	100 101 110 oparand 2 forward 00 01	Regular Value Fowarded Stage 4 Fowarded Stage 5
0100011 0100011 0100011  oparand 1 foward  00  10  11  stage 4 forwardin  0	000 001 010 ding MUX Regular Value Fowarded Stage 4 Fowarded Stage 5 Fowarded extra s	SB SH SW	100 101 110 oparand 2 forward 00 01	Regular Value Fowarded Stage 4 Fowarded Stage 5