

Assembly

Field Values

Machine Code

	imm _{11:0}	rs1	funct3	rd	op		imm _{11:0}	rs1	funct3	rd	op
addi s0, s1, 12	12	9	0	8	19	0000 0000 1100	01001	000	01000	001 0011	
addi x8, x9, 12						1111 1111 0010	00110	000	10010	001 0011	
addi s2, t1, -14	-14	6	0	18	19	1111 1111 1010	10011	010	00111	000 0011	
addi x18,x6, -14						0000 0001 1111	10100	000	10100	000 0011	
lw t2, -6(s3)	-6	19	2	7	3	0000 0000 0101	10111	001	10010	001 0011	
lw x7, -6(x19)						0100 0001 1101	00111	101	00110	001 0011	
lb s4, 0x1F(s4)	0x1F	20	0	20	3						
lb x20,0x1F(x20)											
slli s2, s7, 5	5	23	1	18	19						
slli x18, x23, 5											
srai t1, t2, 29	(upper 7 bits = 32) 29	7	5	6	19						
srai x6, x7, 29											
	12 bits	5 bits	3 bits	5 bits	7 bits		12 bits	5 bits	3 bits	5 bits	7 bits

op

001 0011	(0x00C48413)
001 0011	(0xFF230913)
000 0011	(0xFFA9A383)
000 0011	(0x01FA0A03)
001 0011	(0x005B9913)
001 0011	(0x41D3D313)

7 bits