

Instruction	OP Code	ALU Source A	ALU Source B	ALU Operation	Destenation	Branch
nop	0x00	DNA	DNA	ALU_NOP	DNA	x
j	0x01	DNA	DNA	ALU_NOP	DNA	jump
bne	0x06	in1	in2	ALU_BNE	DNA	on not equal
lw	0x28	in2	imm	ALU_ADD	out1	x
sw	0x34	in2	imm	ALU_ADD	DNA	x
add	0x40	in1	in2	ALU_ADD	out1	x
addu	0x42	in1	in2	ALU_ADD	out1	x
addiu	0x43	in1	imm	ALU_ADD	out1	x
andi	0x4f	in1	imm	ALU_AND	out1	x
sll	0x55	in1	shamt	ALU_SHTL	out1	x
slti	0x5c	in1	imm	ALU_SLT	out1	x
syscall	0xa0	DNA	DNA	ALU_NOP	DNA	x
lui	0xa2	DNA	imm	ALU_SHTL	out1	x