

[illegible]

Control

Instruction	RegDst	ALUSrc	Memto-Reg	Reg Write	Mem Read	Mem Write	Branch	Jump	ALUOp1	ALUp0
R-format	1	0	0	1	0	0	0	0	1	0
lw	0	1	1	1	1	0	0	0	0	0
sw	X	1	X	0	0	1	0	0	0	0
beq	X	0	X	0	0	0	1	0	0	1
j	X	X	X	0	0	0	0	1	X	X

ALUOp		Camp functie							Operatie
ALUOp ₁	ALUOp ₀	F5	F4	F3	F2	F1	F0		
0	0	X	X	X	X	X	X	010	
X	1	X	X	X	X	X	X	110	
1	X	X	X	0	0	0	0	010	
1	X	X	X	0	0	1	0	110	
1	X	X	X	0	1	0	0	000	
1	X	X	X	0	1	0	1	001	
1	X	X	X	1	0	1	0	111	

ALU control input	Function
000	and
001	or
010	add
110	subtract
111	set on less than

lw/sw	rt,imm(rs)	#	rt	:=	mem	[(rs)+imm]
#	0x23/0x2b		rs		rt	imm
#	-----					
#	31-----26	25-21	20-16	15---	0	
#	6 b	5b	5b	16 b		

```

jet
# goto et
# PC:=(PC+4) & 0xf0000000 + imm*4
# | 0x2 |   imm   |
# -----
# 31-26 25-----0

```

Registri: \$t0 (8) - \$t7 (15)