

Semnale de control MIPS32

Semnale de Branch opționale: ? ∈ {gez, ne, gtz}, se va înlocui ? cu o valoare din paranteză, dacă e cazul

Tipuri de operații care se pun în paranteză la ALUOp si ALUCtrl:

(+), (-), (&), (|), (^), (<<I), (<<Iv), (>>I), (>>a), (<I), (<Iv), (<a)

Semnificații: & - AND, | - OR, ^ - XOR, I - logic, a - aritmetic, v - cu variabilă

Instrucțiune	Opcode <i>Instr[31-26]</i>	RegD st	ExtOp	ALUSrc	Branch	BrGEZ	Jump	ImpR (opțional)	Mem Write	Memto Reg	Reg Write	ALUOp[1:0]	function <i>Instr[5-0]</i>	ALUCtrl[2:0]
ADD	000000	1	x	0	0	0	0		0	0	1	00	000000	000(+)
SUB	000000	1	x	0	0	0	0		0	0	1	00	000001	001(-)
SLL	000000	1	x	0	0	0	0		0	0	1	00	000010	010(<<)
SRL	000000	1	x	0	0	0	0		0	0	1	00	000011	011(>>)
AND	000000	1	x	0	0	0	0		0	0	1	00	000100	100(&)
OR	000000	1	x	0	0	0	0		0	0	1	00	000101	101()
XOR	000000	1	x	0	0	0	0		0	0	1	00	000110	110(^)
SLT	000000	1	x	0	0	0	0		0	0	1	00	000111	001(-)
ADDI	000001	0	1	1	0	0	0		0	0	1	01	xxxxxx	000(+)
LW	000010	0	1	1	0	0	0		0	1	1	01	xxxxxx	000(+)
SW	000011	x	1	1	0	0	0		1	x	0	01	xxxxxx	000(+)
BEQ	000100	x	1	0	1	0	0		0	x	0	10	xxxxxx	001(-)
BGEZ	000101	x	1	0	0	1	0		0	x	0	10	xxxxxx	001(-)
SLTI	000110	0	1	1	0	0	0		0	1	1	10	xxxxxx	001(-)
J	000111	x	x	x	x	x	1		0	x	0	xx	xxxxxx	xxx

URL: https://drive.google.com/file/d/1SI7x2Gp_2m3SEkwnXuGt4ns4voYzpGBH/view?usp=sharing