

Semnale control MIPS16 pentru Anexa 5

$\langle ? \rangle \in \{ _gez, _ne, _gtz \}$

Tipuri de operații care se pun în paranteză la ALUOp si ALUCtrl: $\{ (+), (-), (&), (|), (^), (\ll), (\llv), (\gg), (\gga), (<), \& - \text{AND}, | - \text{OR}, ^ - \text{XOR}, l - \text{logic}, a - \text{aritmetic}, v - \text{cu variabilă} \}$

Instruc țiune	Opcode <i>Instr(15-13)</i>	RegDst	ExtOp	ALUSrc	Branch EQ	Branch GTZ	Jump	JmpR	Mem Write	Memto Reg	Reg Write	ALUOp (1:0)	func <i>Instr(2-0)</i>	ALUCtrl (2:0)
ADD	000	1	X	0	0	0	0	0	0	0	1	(R) 00	000	(+) 000
SUB	000	1	X	0	0	0	0	0	0	0	1	(R) 00	001	(-) 001
AND	000	1	X	0	0	0	0	0	0	0	1	(R) 00	010	(&) 010
OR	000	1	X	0	0	0	0	0	0	0	1	(R) 00	011	() 011
XOR	000	1	X	0	0	0	0	0	0	0	1	(R) 00	100	(^) 100
SLL	000	1	X	0	0	0	0	0	0	0	1	(R) 00	101	(>>) 101
SLR	000	1	X	0	0	0	0	0	0	0	1	(R) 00	110	(<<) 110
SLT	000	1	X	0	0	0	0	0	0	0	1	(R) 00	111	(<) 111
ADDI	001	0	1	1	0	0	0	0	0	0	1	(+) 01	XXX	(+) 000
BEQ	010	X	1	0	1	0	0	0	0	X	0	(-) 10	XXX	(-) 001
BGTZ	011	X	1	0	0	1	0	0	0	X	0	(-) 10	XXX	(-) 001
SW	100	X	1	1	0	0	0	0	1	X	0	(+) 01	XXX	(+) 000
LW	101	0	1	1	0	0	0	0	0	1	1	(+) 01	XXX	(+) 000
J	110	X	X	X	X	X	1	0	0	X	0	XX	XXX	XXX
JR	111	X	X	X	X	X	X	1	0	X	0	XX	XXX	XXX

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