



SET DE INSTRUCCIONES

Instrucción	Operación	Inst
add <dest>, <a>, 	$R[rd] = R[ra] + R[rb]$	001000
sub <dest>, <a>, 	$R[rd] = R[ra] - R[rb]$	000101
div <dest>, <a>, 	$R[rd] = R[ra] / R[rb]$	010000
add <dest>, <a>, <imm>	$R[rd] = R[rd] + Imm8$	001000
sub <dest>, <a>, <imm>	$R[rd] = R[rd] - Imm8$	000101
div <dest>, <a>, <imm>	$R[rd] = R[rd] / Imm8$	010000
addv <dest>, <a>, 	$V[rd] = V[ra] + V[rb]$	011000
subv <dest>, <a>, 	$V[rd] = V[ra] - V[rb]$	010101
divv <dest>, <a>, 	$V[rd] = V[ra] / V[rb]$	011000
mulv <dest>, <a>, 	$V[rd] = V[rd] * V[rb]$	010000
str <dest>, <src>, <imm>	$M[rd] = R[rs+off]$	011001
ldr <dest>, <src>, <imm>	$R[rd] = M[rs+off]$	110000
strv <dest>, <src>, <imm>	$M[rd] = V[rs+off]$	011001
ldrv <dest>, <src>, <imm>	$V[rd] = M[rs+off]$	110000
bz <tag>	$pc = pc+4, pc = tag$	10000X
bne <tag>	$pc = pc+4, pc = tag$	10000X
bgt <tag>	$pc = pc+4, pc = tag$	10000X
blt <tag>	$pc = pc+4, pc = tag$	10000X
bge <tag>	$pc = pc+4, pc = tag$	10000X
ble <tag>	$pc = pc+4, pc = tag$	10000X

OPS

Op	Tipo de Instrucción
00	I=0 -> Registro / I = 1 -> Inmediato (R/I)
01	L=0 -> Store/ L = 1 -> Load (M)
10	Condicional (B)

REGISTROS VECTORIALES

Registro	0:31	32:63	64:95	96:127	128:159	160:191	192:223	224:255
r0	32b	32b	32b	32b	32b	32b	32b	32b
r1	32b	32b	32b	32b	32b	32b	32b	32b
r2	32b	32b	32b	32b	32b	32b	32b	32b
r3	32b	32b	32b	32b	32b	32b	32b	32b
r4	32b	32b	32b	32b	32b	32b	32b	32b
r5	32b	32b	32b	32b	32b	32b	32b	32b
r6	32b	32b	32b	32b	32b	32b	32b	32b
r7	32b	32b	32b	32b	32b	32b	32b	32b

FORMATO DE INSTRUCCIONES

0	vect	vect: vector/escalar
1	cond	cond: Flag de condición
3:2	op	op: ver tabla OPS*
9:4	fn	fn: I[4], P[5], U[6], B[7], W[8], L[9]
12:10	ra	Operación: [1] rd = ra ? rb [2] rd = ra ? imm
15:13	rd	
23:16	imm	imm: 8 bits de valor inmediato
26:24	rb	

REGISTROS ESCALARES

Registro	Número	Uso
r0	0	
r1	1	args
r2	2	
r3	3	
r4	4	
r5	5	
r6	6	
r7	7	
pc	15	program counter