Green sheet ISA Pipeline CPU

Stall
31:0
000000000000000000000000000000000000000

	ld			Registers			Null
	Type	Ор	I	RD	RA	RB	Null
	31:30	29:27	26	25:22	21:18	17:14	13:0
ADD	10	000	0	Destino	Operando 1	Operando 2	00000000000000
SUB	10	001	0	Destino	Operando 1	Operando 2	00000000000000
AND	10	010	0	Destino	Operando 1	Operando 2	00000000000000
OR	10	011	0	Destino	Operando 1	Operando 2	00000000000000
MOV	10	100	0	Destino	0000	Operando 2	00000000000000
MOD	10	101	0	Destino	Operando 1	Operando 2	00000000000000
EXP	10	110	0	Destino	Operando 1	Operando 2	00000000000000
CMP	10	111	0	0000	Operando 1	Operando 2	00000000000000

	Data register-immediate							
		Id		Registers				
	Tipo Op I			RD	RA	Immediate		
=	31:30	29:27	26	25:22	21:18	17:0		
ADDI	11	000	1	Destino	Operando 1	lmm = Operando 2		
SUBI	11	001	1	Destino	Operando 1	lmm = Operando 2		
ANDI	11	010	1	Destino	Operando 1	lmm = Operando 2		
ORI	11	011	1	Destino	Operando 1	lmm = Operando 2		
MOV	11	011	1	Destino	0000	Imm = Operando 1		
MOD	11	011	1	Destino	Operando 1	lmm = Operando 2		
EXP	11	011	1	Destino	Operando 1	lmm = Operando 2		
CMPI	11	100	1	0000	Operando 1	Imm = Operando 2		

		Memoria						
		Id			Addressing			
		Type	Ор	Null	RD	RA	Immediate	
		31:30	29	28:26	25:22	19:16	17:0	
I	LDR	10	0	000	RD = MEM[RA + IMM]	RA = Mem dir	Imm = offset	
	STR	10	1	000	MEM[RA + Imm] = RD	RA = Mem dir	Imm = offset	

	Control						
	Id			Null	Instruction number		
	Туре	Ор	Null	Null	Immediate		
	31:30	29:28	27:26	25:18	17:0		
JMP	01	00	00	0000000			
JEQ	01	01	00	0000000			
JNE	01	10	00	0000000			