Green sheet ISA Pipeline CPU

Stall

	Id		Null	
	Type	**Op**	**Null**	**Null**
	31:30	**29**	**28:26**	**25:0**
NOP	00	0	000	0000000000000000000000000
END	00	1	000	0000000000000000000000000

Data register-register

	Id			Registers			Null
	Type	**Op**	**I**	**RD**	**RA**	**RB**	**Null**
	31:30	**29:27**	**26**	**25:22**	**21:18**	**17:14**	**13:0**
ADD	01	000	0	Destino	Operando 1	Operando 2	00000000000000
SUB	01	001	0	Destino	Operando 1	Operando 2	00000000000000
AND	01	010	0	Destino	Operando 1	Operando 2	00000000000000
OR	01	011	0	Destino	Operando 1	Operando 2	00000000000000
MOV	01	100	0	Destino	0000	Operando 2	00000000000000
MOD	01	101	0	Destino	Operando 1	Operando 2	00000000000000
CMP	01	110	0	0000	Operando 1	Operando 2	00000000000000
Disponible	01	111	0	Destino	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	01	000	1	Destino	Operando 1	Imm = Operando 2
SUBI	01	001	1	Destino	Operando 1	Imm = Operando 2
ANDI	01	010	1	Destino	Operando 1	Imm = Operando 2
ORI	01	011	1	Destino	Operando 1	Imm = Operando 2
MOV	01	100	1	Destino	0000	Imm = Operando 1
MOD	01	101	1	Destino	Operando 1	Imm = Operando 2
CMPI	01	110	1	0000	Operando 1	Imm = Operando 2
Disponible	01	111	1	Destino	Operando 1	Imm = Operando 2

Memoria

	Id			Addressing		
	Type	**Op**	**Null**	**RD**	**RA**	**Immediate**
	31:30	**29**	**28:26**	**25:22**	**21:18**	**17:0**
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
	Type	**Op**	**Null**	**Null**	**Immediate**
	31:30	**29**	**28:26**	**25:18**	**17:0**
JMP	11	0	000	00000000	Imm = # salto
JEQ	11	1	000	00000000	Imm = # salto