Green Sheet ISA - Vectorial Pipeline CPU

System			
	Id		Null / Addressing
Type	Op	Imm	Address
31:30	29:28	27:26	25:0

	Type	Op	Imm	Address
NOP	00	00	00	0000000000000000000000000000
PSE	00	01	00	0000000000000000000000000000
SEL	00	10	00	0000000000000000000000000000
END	00	11	00	0000000000000000000000000000

Data register-register / vectorial-vectorial						
	Id			Registers		Null
Type	Op	IS	RD	RA	RB	
31:30	29:27	26:25	24:21	20:17	16:13	12:0

	Type	Op	IS	RD	RA	RB	Null
ADDV	01	000	00	xxxx	xxxx	xxxx	0000000000000
MOVV	01	001	00	xxxx	0000	xxxx	0000000000000
XORV	01	010	00	xxxx	xxxx	xxxx	0000000000000
ORV	01	011	00	xxxx	xxxx	xxxx	0000000000000
SHRV	01	100	00	xxxx	xxxx	xxxx	0000000000000
SHLV	01	101	00	xxxx	xxxx	xxxx	0000000000000
CMPV	01	110	00	0000	xxxx	xxxx	0000000000000

Data register-register / vectorial-scalar						
	Id			Registers		Null
Type	Op	IS	RD	RA	RB	
31:30	29:27	26:25	24:21	20:17	16:13	12:0

	Type	Op	IS	RD	RA	RB	Null
ADDS	01	000	01	xxxx	xxxx	xxxx	0000000000000
MOVS	01	001	01	xxxx	0000	xxxx	0000000000000
XORS	01	010	01	xxxx	xxxx	xxxx	0000000000000
ORS	01	011	01	xxxx	xxxx	xxxx	0000000000000
SHRS	01	100	01	xxxx	xxxx	xxxx	0000000000000
SHLS	01	101	01	xxxx	xxxx	xxxx	0000000000000
CMPS	01	110	01	0000	xxxx	xxxx	0000000000000

Data register-immediate / vectorial-scalar						
	Id			Registers		Null
Tipo	Op	IS	RD	RA	Immediate	
31:30	29:27	26:25	24:21	20:17	16:9	8:0

	Tipo	Op	IS	RD	RA	Immediate	Null
ADDS	01	000	11	xxxx	xxxx	xxxxxxxx	000000000
MOVS	01	001	11	xxxx	0000	xxxxxxxx	000000000
XORS	01	010	11	xxxx	xxxx	xxxxxxxx	000000000
ORS	01	011	11	xxxx	xxxx	xxxxxxxx	000000000
SHRS	01	100	11	xxxx	xxxx	xxxxxxxx	000000000
SHLS	01	101	11	xxxx	xxxx	xxxxxxxx	000000000
CMPS	01	110	11	0000	xxxx	xxxxxxxx	000000000

Memoria						
	Id			Addressing		
Type	Op	Null	IS	RD	RA	Immediate
31:30	29	28:27	27:25	24:21	20:17	16:0

	Type	Op	Null	IS	RD	RA	Immediate
LDRV	10	0	00	00	xxxx	xxxx	00000000000000000
LDRS	10	0	00	01	xxxx	xxxx	00000000000000000
STRV	10	1	00	00	xxxx	xxxx	00000000000000000
STRS	10	1	00	01	xxxx	xxxx	00000000000000000

Control		
	Id	Immediate
Type	Op	
31:30	29:28	27:0

JMP	11	00	00000000000000000000000000000000
JEQ	11	01	00000000000000000000000000000000
JLT	11	10	00000000000000000000000000000000