Primary OP	mary OP RDest ALUOP/ImmHi Rsrc/ImmLo				
Name	Operands	15-12	11-8	7-4	3-0
INSTR	RDest, RSrc	0	RDest	OPCODE	RSrc
INSTRI	RDest, Imm	OPCODE	RDest	ImmHi	ImmLo
ADD	RDest, RDest	0	RDest	10	RSrc
SUB	RDest, RDest	0	RDest	11	RSrc
AND	RDest, RDest	0	RDest	110	RSrc
OR	RDest, RDest	0	RDest	111	RSrc
XOR	RDest, RDest	0	RDest	1000	RSrc
NOT	RDest, RDest	0	RDest	1001	RSrc
LSH	RDest, RDest	0	RDest	1010	RSrc
RSH	RDest, RDest	0	RDest	1011	RSrc
ARSH	RDest, RDest	0	RDest	1100	RSrc
MUL	RSrc2, RSrc	0	RSrc2	1101	RSrc
FMUL	RDest, RSrc	0	RDest	1110	RSrc
MOVR	RDest, RSrc	0	RDest	1111	RSrc

Compares

CMP (A-B)	A, B	0	Α	100	В
CMP (Imm-A)	A, Imm	100	Α	ImmHi	ImmLo
CMPR (B-A)	B, A	0	Α	101	В
CMPR (A-Imm)	Imm, A	101	Α	ImmHi	ImmLo

Primary OP	Data	OP	Address		
Name	Name Operands		11-8	7-4	3-0
MOVMR	RAddr, RDest	1	RDest	10	RAddr
MOVRM	RAddr, RSrc	1	RSrc	11	RAddr

OP	ımm		
Name	Operands	17-14	13-0
CALL	Imm Addr	100	Imm
MOVMRI	Imm Addr	101	Imm
MOVRMI	Imm Addr	110	Imm
RET	n/a	111	n/a

OP Imm			
Name Operand		17-13	12-0
JL Imm Addr		10000	Imm
JLE Imm Addr		10001	Imm
JNE	Imm Addr	10010	Imm
JE	Imm Addr	10011	Imm
J	Imm Addr	10100	Imm
JBE	Imm Addr	10101	Imm
JB Imm A		10110	Imm

OP	Operand	ImmLo		
Name	Operands	17-14	13-10	9-0
POP	RDest	1100	RDest	n/a
PUSH	RSrc	1101	RSrc	n/a
PUSHI	Imm	1110	ImmHi	ImmLo

			11-8	7-0
Name	Operands	17-12 (OP)	(Operand)	(unused)
INCR	R	111100	R	n/a
DECR	R	111101	R	n/a

Psuedoinstructions with special formatting Moves

	Maria franco
	Move from a
	register into
	memory at
	address in
MOV [%R], %R	register
	Move from
	memory at
	address in
	register into a
MOV %R, [%R]	register
WOV 70K, [70K]	_
	Move from a
	register into
	memory at
MOV [IMM/LABEL],	immediate
%R	address
	Move from
	memory at
	immediate
MOV %R,	address into a
[IMM/LABEL]	register
[IIVIIVI/LADEL]	register
	Move from
	memory at a
MOV %R,	label address
[LABEL+constant]	plus a constant
	Move to
MOV	memory at a
[LABEL+constant],	label address
%R	plus a constant
	'
	Move a register
	to another
MOV %R, %R	register
IVIOV 70IN, 70IN	,
	Move an
	immediate up
	to 16 bits into a
MOV %R, IMM	register
Special Jump	
Formats	
	Jump to label if
	the two
	parameters
	compared as A
	JUMPTYPE B
11 IN AD A D	(e.g. A > B for
JUMP A, B, LABEL	JG) return true.

Works with the following jump types

JE	JNE	JA*	JAE*	JB	JBE	JG*	JGE*	JL	JLE

(NOTE: jumps with asterisks are emulated using reverse compares