

Primary OP	RDest	ALUOP/ImmHi	Rsrc/ImmLo						
Name	Operands	15-12	11-8	7-4	3-0				
INSTR	RDest, RSrc	0000	RDest	OPCODE	RSrc				
INSTR1	RDest, Imm	OPCODE	RDest	ImmHi	ImmLo				
ADD	RDest, RDest	0000	RDest	0010	RSrc				
SUB	RDest, RDest	0000	RDest	0011	RSrc				
AND	RDest, RDest	0000	RDest	0110	RSrc				
OR	RDest, RDest	0000	RDest	0111	RSrc				
XOR	RDest, RDest	0000	RDest	1000	RSrc				
NOT	RDest, RDest	0000	RDest	1001	RSrc				
LSH	RDest, RDest	0000	RDest	1010	RSrc				
RSH	RDest, RDest	0000	RDest	1011	RSrc				
ARSH	RDest, RDest	0000	RDest	1100	RSrc				
MUL	RSrc2, RSrc	0000	RSrc2	1101	RSrc				
FMUL	RDest, RSrc	0000	RDest	1110	RSrc				
MOVR	RDest, RSrc	0000	RDest	1111	RSrc				
Compares									
CMP (A-B)	A, B	0000	A	0100	B				
CMP (Imm-A)	A, Imm	0100	A	ImmHi	ImmLo				
CMPR (B-A)	B, A	0000	A	0101	B				
CMPR (A-Imm)	Imm, A	0101	A	ImmHi	ImmLo				
Primary OP	Data	OP	Address						
Name	Operands	15-12	11-8	7-4	3-0				
MOVMR	RAddr, RDest	0001	RDest	0010	RAddr				
MOVRM	RAddr, RSrc	0001	RSrc	0011	RAddr				
OP	Imm								
Name	Operands	17-14	13-0						
CALL	Imm Addr	0100	Imm						
MOVMRI	Imm Addr	0101	Imm						
MOVRFI	Imm Addr	0110	Imm						
RET	n/a	0111	n/a						
OP	Imm								

Name	Operands	17-13
JL	Imm Addr	10000
JLE	Imm Addr	10001
JNE	Imm Addr	10010
JE	Imm Addr	10011
J	Imm Addr	10100
JBE	Imm Addr	10101
JB	Imm Addr	10110
OP	Operand	ImmLo
Name	Operands	17-14
POP	RDest	1100
PUSH	RSrc	1101
PUSHI	Imm	1110
Name	Operands	17-12 (OP)
INCR	R	111100
DECR	R	111101
Pseudoinstructions with special formatting		
Moves		
MOV [%R], %R		Move from a register in
MOV %R, [%R]		Move from memory at a
MOV [IMM/LABEL], %R		Move from a register in
MOV %R, [IMM/LABEL]		Move from memory at i
MOV %R, [LABEL+constant]		Move from memory at a
MOV [LABEL+constant], %R		Move to memory at a la
MOV %R, %R		Move a register to anot
MOV %R, IMM		Move an immediate up
Special Jump Formats		
JUMP A, B, LABEL		Jump to label if the tw
Works with the following jump types		
JE	JNE	JA*
(NOTE: jumps with asterisks are emulated using reverse compares		