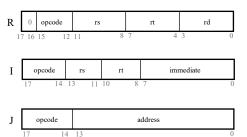


CORE INSTRUCTION SET

NAME, MNEMONIC		FOR- MAT	OPERATION	OPCODE	
	Add	add	R	R[rd] = R[rs] + R[rt]	0000
	Addi	addi	I	R[rd] = R[rs] + 0	0001
	Subtract	sub	R	R[rd] = R[rs] - R[rt]	0010
	Multiply	mul	R	R[rd] = R[rs] * R[rt]	0011
	Branch On Equal	beq	I	If(R[rs]==R[rt]) PC= BranchAddr	0100
	Branch On Not Equal	bnq	I	If(R[rs]!=R[rt]) PC=BranchAddr	0101
	Branch Less Than	blt	I	If(R[rs] <r[rt]) PC=Label</r[rt]) 	0110
	Branch Greater Than	bgt	I	If(R[rs]>R[rt]) PC=Label	0111
	Branch Greater Than Or Equal	bgte	I	If(R[rs]>=R[rt]) PC=Label	1000
	Branch Less Than Or Equal To Zero	bgtz	I	If(R[rs] <r[rt]) PC=Label</r[rt]) 	1001
	Jump	j	J	PC = JumpAddr	1010
	Input	in	I		1011
	Output	out	I		1100

BASIC INSTRUCTION FORMATS



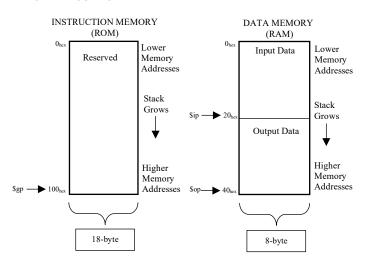
REGISTER NAME. NUMBER, USE

NAME	NUMBER	USE
\$r0-\$r7	0-7	Temporaries
\$at	8	Assembler Temporary
\$ip	9	Pointer for Input
\$op	10	Pointer for Output
\$gp	11	Global Pointer

OPCODES, BASE CONVERSION, ASCII SYMBOLS

CAGD Opcode (15:12)	Binary	Decimal	Hexadecimal	ASCII Character
add	0000	0	0	NUL
addi	0001	1	1	SOH
sub	0010	2	2	STX
mul	0011	3	3	ETX
beq	0100	4	4	EOT
bnq	0101	5	5	ENQ
blt	0110	6	6	ACK
bgt	0111	7	7	BEL
bgte	1000	8	8	BS
bgtz	1001	9	9	HT
j	1010	10	a	LF
in	1011	11	b	VT
out	1100	12	с	FF

MEMORY ALLOCATION



CAGD Refence card ("Green Card")