



PICT, PUNE	
	Signals:
	Regulate: Asserted (1) when instruction writes
	into a result (R type and Load)
	J'
2	ALVSTC:
	For I-type and S-type instructions, the second ALU
	operand comes from the sign extended immediate
	(set to 1)
	For R-type and branch instructions, it comes from
Q.	a register (set to 0)
3.	MemWrite: Assented (i) only from s-type instructions
	3
4,	ResultSrc: for Load type Inst. (I-type) the result is taken from memory (set to 1) otherwise, the
	is taken from memory (set to 1) otherwise, the
	ALU result is used (set to 0).
5.	Branch: Asserted (1) for BEQ & BNE to indicade branch.
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6.	Jump, Call, Ret: These tos signals are asserted when the respective instructions are called. They are used
	to make the Dr
	to update PC.
7.	ImmSrc;
7	"00" is used when an immediate is not used (R-type (RET)
_	"o" is used for 8-bit sign-extended immediates (I,S, 8 typ)
-	"10" is wed for 14 bit immediate for JMP & CALL.
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8 -	ALUap: Currently ALVap is set to a for all obore instruction
J	as function field is used for words troning.
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	Types of Instructions:
1.	R-type (Arithmetic Magical Lautom)
	18: 1413: 1)10: 87: 54: 0 Opcode Dest RD Reg Reg Function
2.	I type (Load) 18: 14 13: 11 10: 87: 0 Oplode Dest. Reg Reg Immediate field
3.	S! B type
	18: 14 13: 11 10: 8 7: 0 [Op(pde Reg1 Reg2 Immediate Field]
4.	J-type (Jump/(all/Ret)
,	18: 1413 = 0 Opcode Immediate Field