Comp Arch HU#2	
4.2.1: The Existing Books that can be yeld are:	
@ This instruction, uses instruction memory both existing read party	
of segisters, the ALV (to be odd to compare Rs and Rt)	
and the write port of Augistry.	
15 This instruction, also uses instruction manary, both register res	d
posits, ALV to add Rd and Rs together, uses delta memory and	
458 the prite ports in Registres.	the state of the secondary part, the state of the secondary will be
4.2.2: The new frontford blocks needed are:	
a) This instruction needs the O ortput of the AW to be 2000	
extended in order for it to compute the value for Bd.	
Afterwards we read to put this of another input to the M	ж
Enat edects which value should be written into the tregs	ster-
(b) The instruction duegot need any. The Instruction can simply be	
implemented using the exigting blocks.	and the second second
423. The new control definely are:	
@ Here you need a new control gignel for the MUX Brot	
RICKS between values that can be united into Registers.	
(6) Here you don't need any control signal. This instruction can	<u>D</u>
implemented without it it only requires dranger in	
the control Magic.	
4.1.1: The value of the sprat	A STATE OF THE PARTY OF THE PAR
Boowlite MunBood ALUMIX Membrita ALVOP Kos Mix Branch	and the second s
(Ruy) 0 AND 1(ALV) 0	
(Ruy) 0 AND 1(ALV) 0 (Buy) 1 AND 1(ALV) 0 (Buy) 1 AND X	
/ AWMUN JOHN - the control Signal that controly MVX of the AUV input	
O (Asy) choses the output of the register file and 1 (1mm) society	5
the immediate from the instruction word as the second input to t	ne AW.
Reg Mux - the control gignal that controls the Mux at the data inpu	it
to the register, O (ALU) seemed the output of the ALV, and 1 (Men) sel	ect /
the autport of memory.	1
A value of x is a "durit care" (dog not matter if signal is 0 on 1	

	407
4.1.2: Resources Peterming a us	eful function for this instructions
(a) All of them except Oc.	ta Memory and Branch Add unit.
(6) All of them except bs	anch Add unit and unite port of the Registers.
	r used No ontents
@ branch Add	Porta Monory
b branch add, write p	ort of Rusistery None (all units produce ortputs)