Jason Less 404-640-153 CMISIB

[M1518: HU#4

101010 111600 1110101 0000,0000,0001,000 imm/<du 01 As rw is an I-type to ortput of sign-extend can be extracted from the low-order 16-bits of the Insn=0 0000 0000 0001 0100 · Sign extanding to 22-bits replicator the MSB (which is 0) = 1 0000 0000 0000 0000 0000 0000 000 1 o The jump "Shift left?": The low-order 26-bits are taken and expanded to 28-bits (via a left shift) | GCGO 1000 1000 0000 0000 0101 0000 1 The ALU Control Unit has 2 inputs = 0 (1) The 2-4it ALUOP 2) The lover 6-4ts (... first for R-type) · At the opcode corresponds to a sw=1 the ALUOP = 00 · The hour 6 6, 75=8/0100/

). The irr is a sw = D and thus the PC will just advance to the next inso (:.e. PC+4) = 1 PC+41

(2) Through the ADD (PC+4)

(3) Promise branch musical

(4) Through The work (4)

(5) Urg both around to Minnet

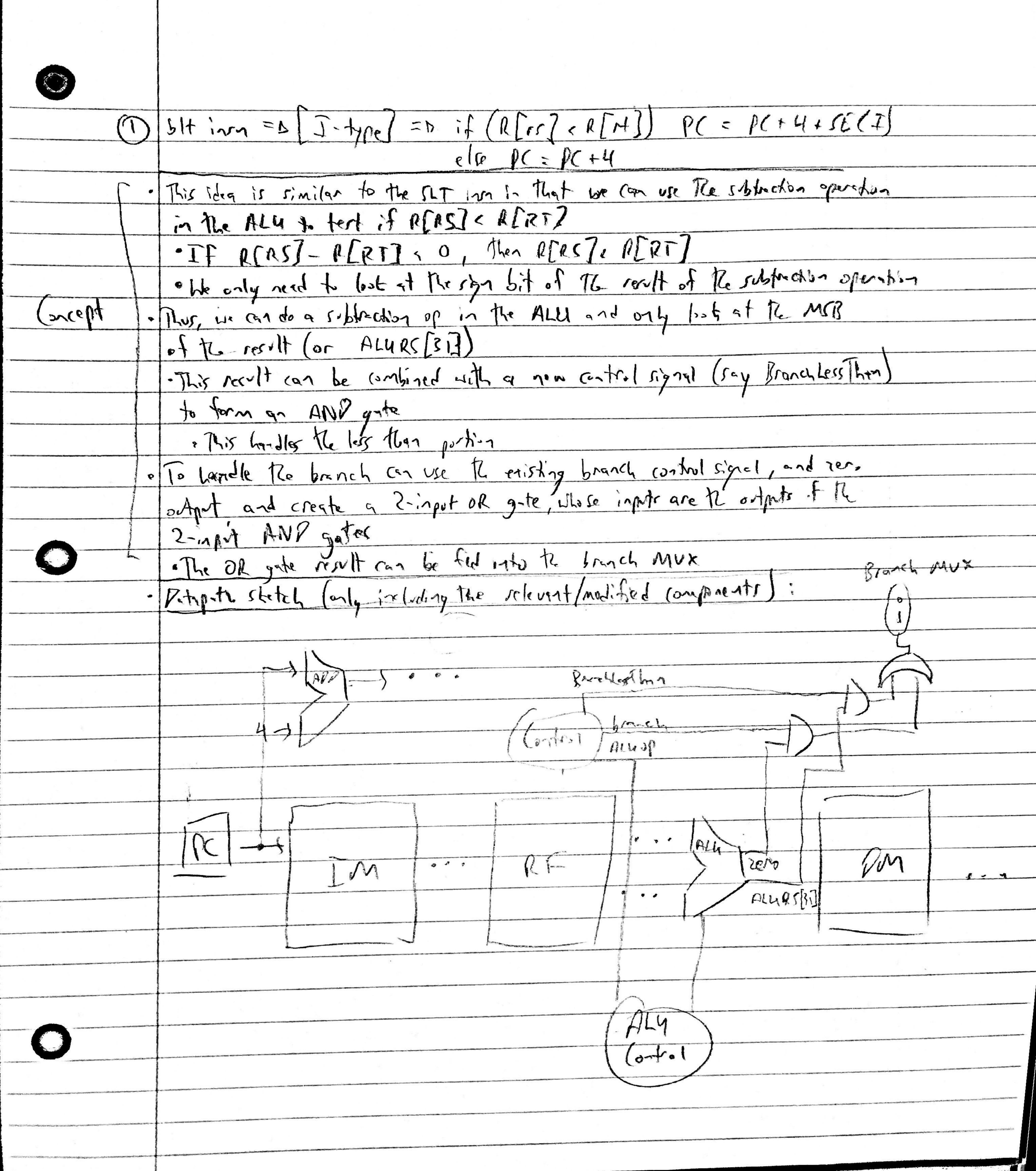
(4.7.4) - The data path consists of 5 total MUX, · At it is a SW, the PC will just advance to the next inson (i.e. PC+4) -Thur, the branch Mux and jump Mux will select 0 (i.e. pt branch nor jump) · Bosach MUX = Town MUX = P(+4) · It is a sw. so RegPst is a de, so the output of the Write register MVX

Conff pe from : ver [50:18] or wer [12:11] - Mr.t. Reg MVX = 2 or 0

· ALUSTIC is a 1, so the ALU INFA MUX comes from the SE(I) = 10100

· [ALUINITH MUX = 30]

(cont). De 1-st MUX :s R Data Memory correspondent ·The insn is a sw, so no reading from memory · Recebre the extent of the MUX is not used/needed ALU - Input I comes from the contents of rend chita I · Rend reg I comes from installist = cool on r3 · r3 contains the value [3] - Input ? comer from the (F(I) = [70] APO (PC+4) 1-Inn4 2 = [PC] Input 1 comer from APD (1C+4) = 1PC+41 · Tront 2 comes from SE(I) « ? = 30 « ? = 20 » 4 = /80/ 4.7.6 Read reg 1 comes from Institute 15:211 = 00011 = 131 · Rend Fey 2 comes from Irril 20:8] : Devolu : [2] · Write reg (wares from Insoftwill) or Insoftsill as Reglist is de 1 the MUX can be 0 or 1 = 1 00000 or 00000 = 1/2 or 0 1. Regulate = [0] | A it is a sw mon1 · Write data = b .11/2 is a sw. so fut writing larything to the PF



	(orthol Outrots	VI+	
	RegPst	X	
	ALUsa	0	
	Mentolley	X	
	Regulrite	0	
	McMked	0	
	Menunte	Ò	
	13291		
	ALUOPI	0	
	ALLIOPE		
	Branch Less Than		
	Friva = DK-the man = DRC= Klark		
	This instances is simply set	ting the PC to P[-5] rether than	it being P(+4
	or PC+4+5E(I)		
	The PC being PC+4 on PC+4+SECI) is set at the final (upper); unp		
	Mux		
	· Thur, we still want to utilize to jump MUX (set to 1) in order to jump.		
	but will create a new control rignal (say Jungillage) to set the mux, and		
	Then input to be and the above all 85] (from Read date 1 output wire)		
		K. C.	X /
	*	Junte 7	10 Juny
	TO TOM	d. J. Aller	-5 17 M
	10-1-		
	1 1 1 1 1		
	Cashal Called iv	(hy ourst)	
	Keg/st X	Mensile B	
	ALUSTO	15/02 h	
	Memoreg X	ALUOPI	
	1/2 1/10	ALYOPE	
	Menke-10	Jun 1	