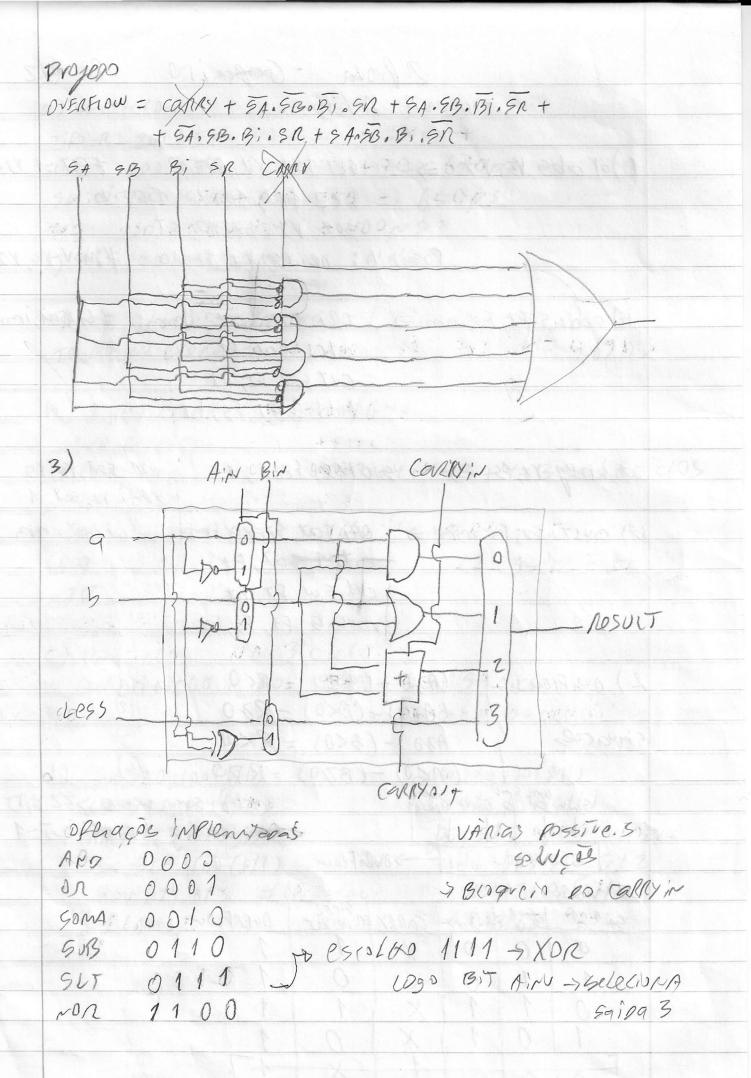
2º frova - Gobarino 2006/2 TURMA A/B

1) a) abs vs, v+ => sit \$at, vt, \$ten #9x=1 v1co beg fat, \$ ZERO, POSITIO SUB Vt, STEND, VT Position OR YS, YX, \$ZERO #MOV VS VX b) addis Ft, Fs, inm => ORi fat, STERD, Imm # Lifat, imm mtc1 bat, Fx CVT.S.W Ft, Ft add. S Ft, Fs, Ft a) neg rx, rs => SUB rx, \$200, rs NOR \$at, 15, 15 addirt, sat, 1 b) muci ft, fg, imm => On; fat, \$ZENO, imm #lifat, imm mtc1 sat, Ft cut, S.W FT, Ft mol. G Ft, Fs, FI 2) over Flow: - (A7,0) + (B7,0) = R(0) (ALO)+(BLO)=R70 Situacol (A70)-(B<0) = R<0 Bin & B CONY SINGE (B70) = R70 Soma N 5013 >32 BIT 5 centy 05 =1 -> OVERFLOW over From 9 (as DG: Cappy so poster 155 1002 BIBIN DUENTION O 1 0 0 X 0 1 X 0 0 X 1 X



4) OVERFLOW & E EXSTANCED NOS REFINIDA ver civro: Fig. 5.39 @ 5.40 Mugance NG Hirstpreed + INCLUIR SINAIS DUERFION NA LANDOR - incluin SIMP. 5 cargaInT, escareGusa, escareSIC Reg cin remo Pornite Exercis Seg SOR SACI Excessão OVER FLOW Causaint -1 Escreve Causa ESCHOLL EPC INSTRUKAI cargaint=0 141 Recog ESCREVE CAUSE ESCRUE EPC ROURITE ORL Exceal DRIPC=11 Eschele pc RES CTAL ParRice SAC1 SPCZ meno Experca LABRI ALUCTAL 509 PC reap PC ALU AND FETCH DISPATCH 1 EXTSHPT. Read 80 Add EXTENS MyGach 2 AJd MEM 1 ROOD AW seg LW2 WRITEMOR Fetch Fetch unite ALU SWZ REDRY 1 TW cope B 510 909 WRITE AW FeTCh EXECOL OUENFLOW OVERFLOS SUB 4 FETCH PC rainecog. NOTO 1 BERT PC Execcas Fetch 9013 SUB FETCL 13 ALUCOND. Fercy NOT ROPEDE pispacth 1 - qualque suro experso pere aforian Pana de Proxime estado Artan & Controle Of Hora Overflow orafiou

OUFRF10w3

(ago (spirar: 0 sig se

Vai 10/ DVERLOW 3

5) The substitution of the a) Upiciclo: TiPO-R: 200+50+150+70 = 470ps LW; 200+50+150+200+70=670ps Sw: 700+50+150+250 = 650ps Beg: 200 + 50 + 150 = 400 ps 7 : 200 - 201 / 3 Freq. Clock = 1670ps = 1,492 GHZ Tendo MI executor 7 insmição: 7x670p = 4,69 h 5 b) Freq.clock = 200p = 4GHZ TENP Execuças: TIPO-R: 4 CICUS 9+5+4+4+3+4+3 = 28 CICLOS Lw: 5 cicles Con: 4 ciclos logo: tempo execução: 28x 750p = 765 309: 3 civis JP: 3012105 C) Uniciclo: NO 3ºcido MULTICICLO: NO 5+5+3=130 cicco 4 Buscat perop + exercice, d) LW \$t0,100 (5/1) -LW \$ to 100 (\$11) LW \$77, 104 (\$\$11) Lugtz, 104 (\$11) ADD \$13, 510, \$12 beg \$12, \$7500, LODELZ GW \$13, 510 872 Sw \$13, 100 (\$11) mov \$14,513 # OPENAGE 1 LAGEL2 1 LABEL2