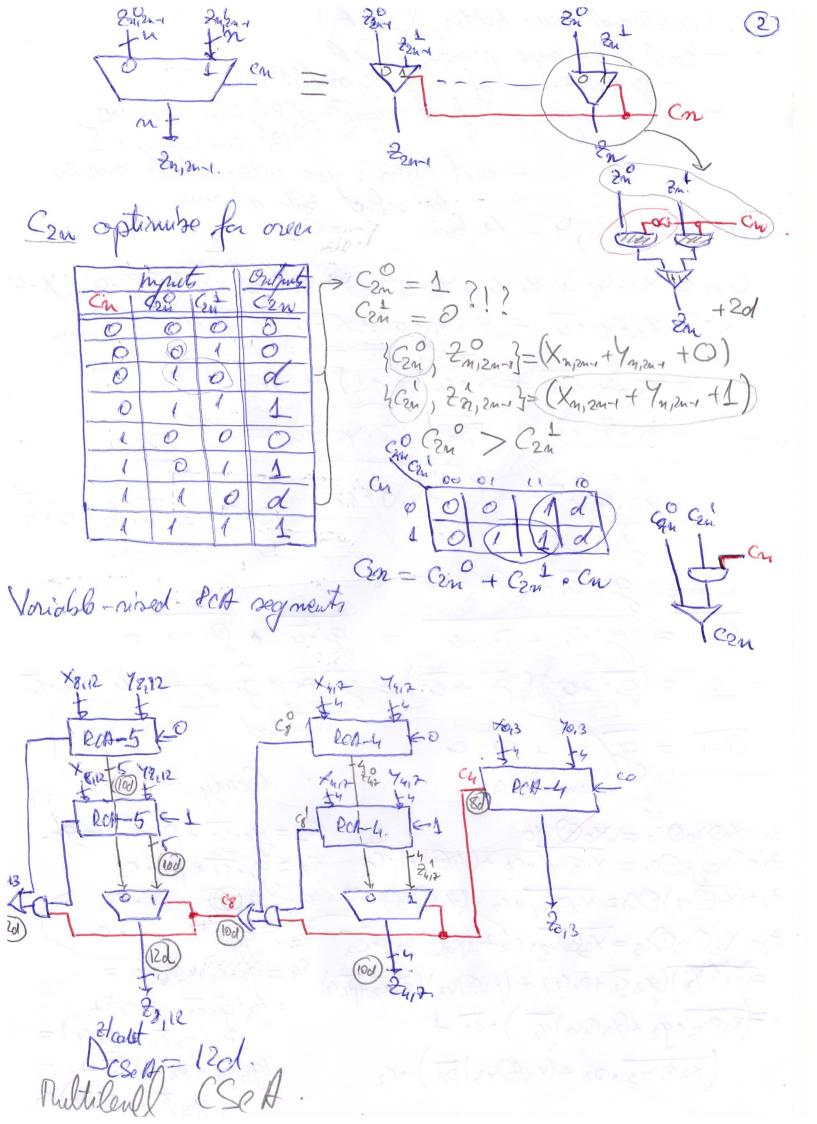


1.4.3. Corry Select Adder (CSeA) - principle of sum conditioned by corry Ci < 1 $\sqrt{2}i$, Ci+1 in 2 variants Sif ci = 21 S(2i), Ci+1 = Ci=0 S(2i), Ci+1 = Ci=0PCA on 20 bili yo, end Xo, end ten - gelit the adder in 2 holies - duplicate the most rignif holf 2 cm = 1 FCA-m En=0

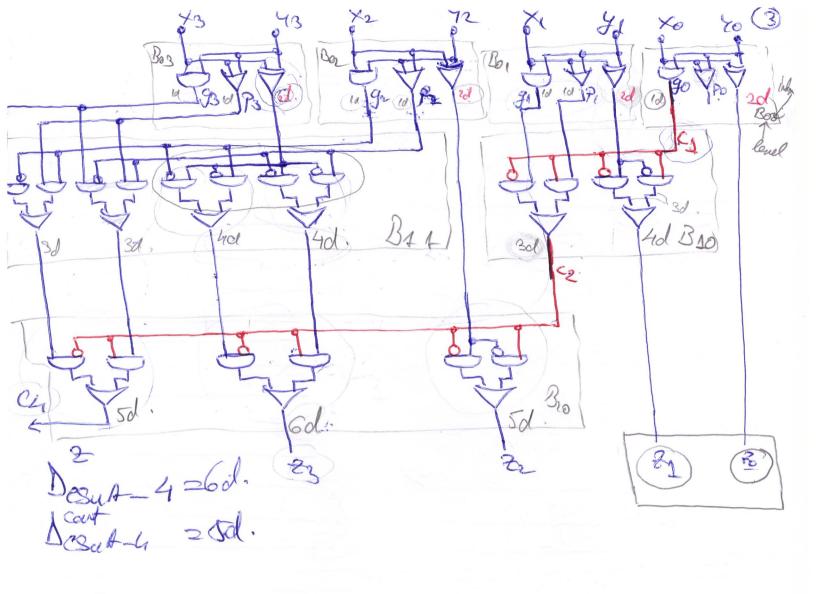


44. Conditional Sur Adder ((SuA) - bosed on the some principle (Soft multilevel.

- generalitation of (Soft: multilevel.

- several layers - first cougustes - (2; Girl) - ci = D

(2; t, circ) - ci = 1 - vest layers: use intermediate consies Counder X, 4 - 4 bits co = 0 Cin = Xio 4i + Xio Ci + 7io Ci = Xio 4i (Ci + Ci) + Xio Ci + 7io Ci = Michieu + Michieu + Michie + Michie = = xioqioa + xioci(qi+1) + yioci = = Michica + Micai + Vicai = gi di di + (xi tyi) ce a@6= a.6+a.6 Citi = gi.a+ Pioci Citiz giou + Pira = giou & Priorie = = (gi + ai) (pi + ai) = gi pi + gi ai + pi · ai + gi a. aboorbadi Citi = gi ci + Pi ci Sum borts Coray bots C1 = 90.60 + Po. Co = 90 20=100000 = X00 40 21=(X10)0000 = X1041001+(X1041).9 C2=91.54 P1.C1 63=92.C2 +P2.C2 tr=(XnOp)OG= XnOpo or +(XnOp) or C3 = 92.02 + P2.02 = 23= X30420c3 = X3048. C3+ (X3043). C3 =(x3@73)(92 52 + p262) + (x2,@42)(92 52+p26) = 93 (grea +pra)+ =(x3043.92+(x3043)g2) · C2+ P3(g2 (2 + p2 (2) = (x3@43.p2+(x3@43)p2).c2 = (93 gn + P3 gn) Cr + (93 PL + P3 PZ) CZ



1.

2