

1.2.2. Excess of three addler. 2. Excess of three adder.

Xies = Xi +3

Xies, Yies, Pies - EZ digits Plies = Yi + 3

Yies = $\frac{1}{3}$ Yies, Pies = $\frac{1}{3}$ Yies, Pies = $\frac{1}{3}$ Yies, Pies = $\frac{1}{3}$ Yies, Pies = $\frac{1}{3}$ Yies = $\frac{1}{3$ Xies + Yies Scitt - com for the more rignificant digit $\begin{array}{l} X_{i} + Y_{i} < 10 \rightarrow \begin{cases} -2i = X_{i} + Y_{i} \\ +6 \end{cases} \Rightarrow \begin{array}{l} R_{ies} = X_{ies} + Y_{ies} - 3 \\ R_{is} \text{ now } correction \\ R_{ies} = X_{i} + Y_{i} - 10 \\ R_{ies} = X_{i} + R_{ies} - 13 \end{array}$ $\begin{array}{l} X_{i} + Y_{i} > 10, \\ X_{i} + Y_{i} > 10, \\$ XE+7: 3.10. +6 => Xies + Yies > 16 Xies + Ties = C483482484 Xies + Ties = x3 xex1 xot (bring adder) = 43 42 41 40 (bring adder) = 24 24 24 20 Xins + Yins 7/6 = C ==1 Substacting 3 on 4 bits = adding 13 on 4 bits.

(a+6-3) mod 16 = (a+6-3+16) well6 = (a+6+13) med/6 Subtracting 13 on 4 5to = adding 3 on 4 5to.

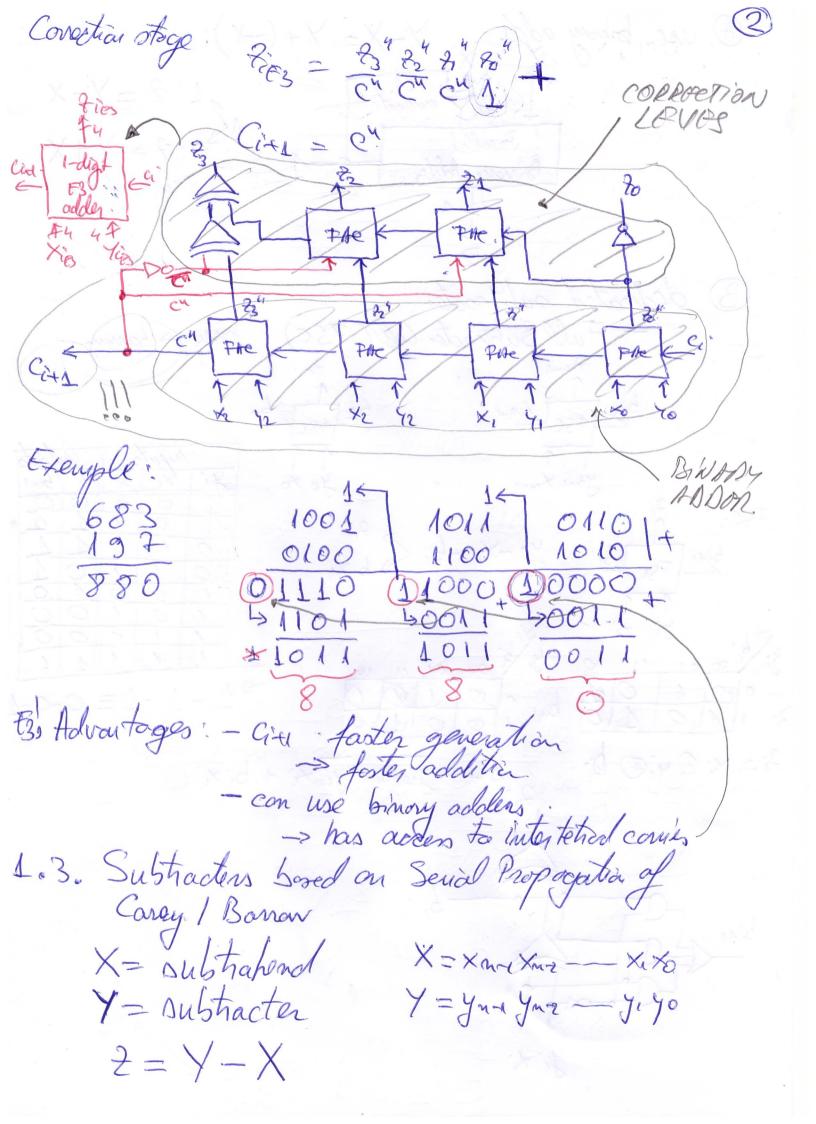
Pries = correction depend:

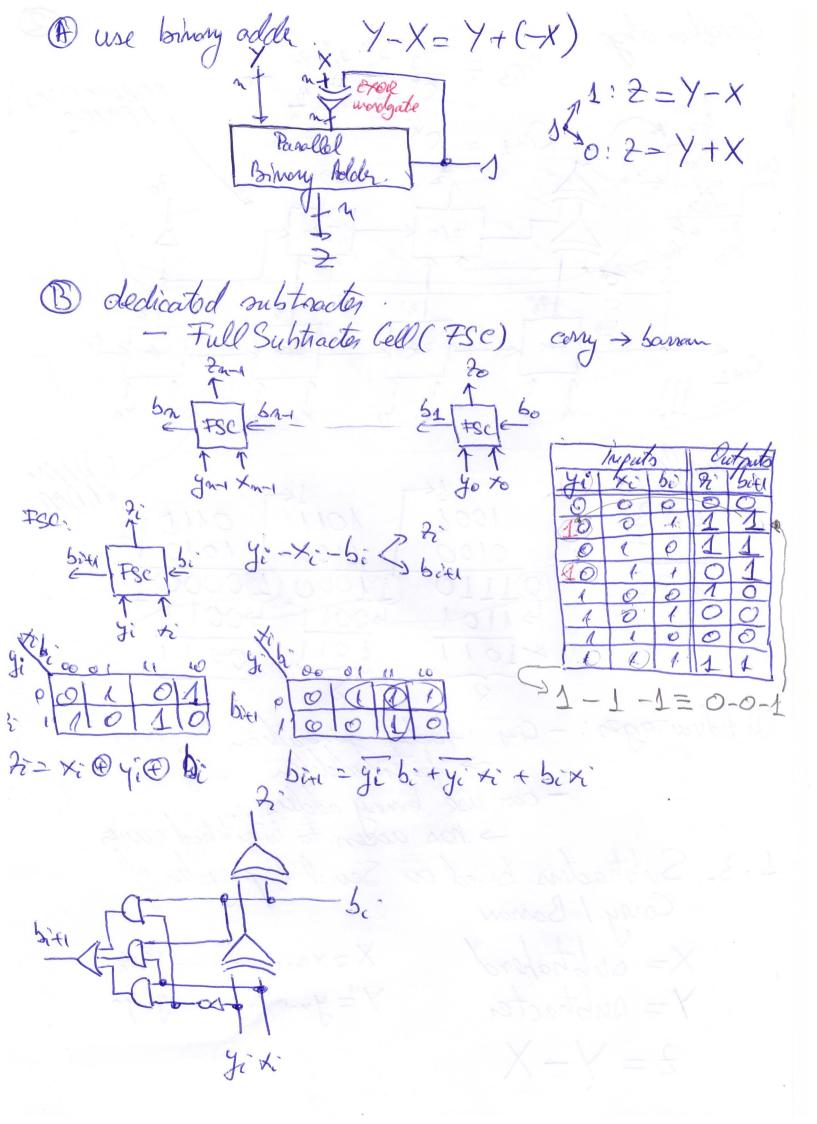
Pries = 23 22 8 25 4

Pries = 1

Cu = 23 25 27 25 25

Cu = 23 25 27 25 25 $\frac{10}{100} = \frac{23^{4} 27^{4} 27^{4}}{1000}$ $\frac{100}{1000} = \frac{23^{4} 27^{4} 27^{4}}{1000}$ $\frac{100}{1000} = \frac{23^{4} 27^{4} 27^{4}}{1000}$ $\frac{100}{1000} = \frac{23^{4} 27^{4} 27^{4}}{1000}$ $\frac{1000}{1000} = \frac{23^{4} 27^{4} 27^{4}}{1000}$ $\frac{1000}{1000} = \frac{23^{4} 27^{4} 27^{4}}{1000}$



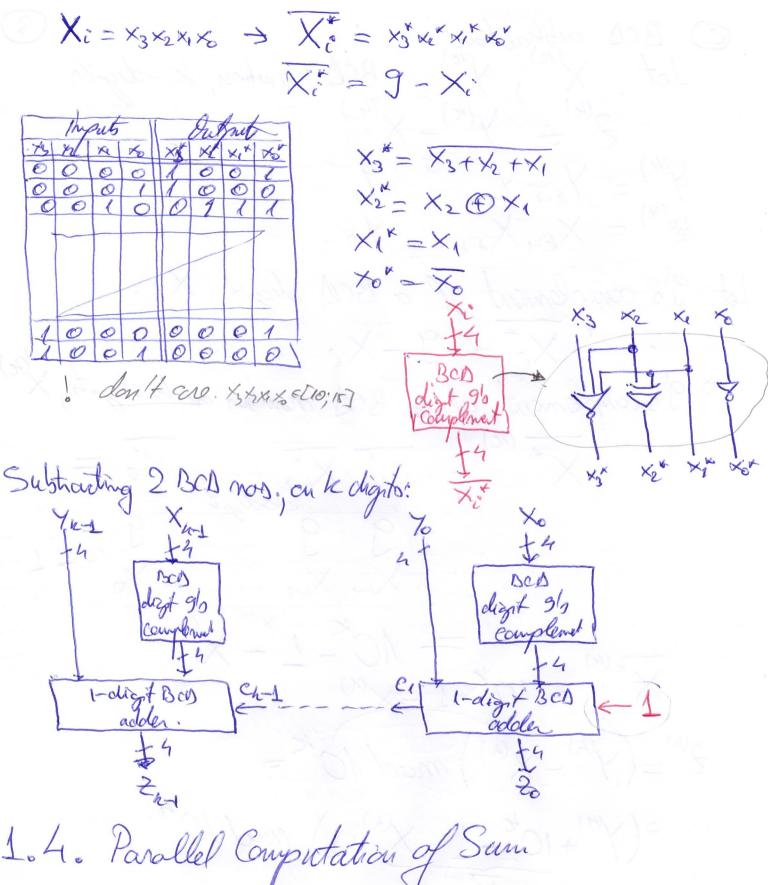


Doubtaction
(k) y - BCD numbers, k-digits

2(k) = y(k) - X(k) Y(h) = Yh-1 Yh-2 -- 70 X(in) = Xx-1 Xx-2 X0 Let 9's complement of a BCD oligit Xi

Xi = 9-Xi => 9 s complement of a BCD number on ledigits, X(2)

X * (r) X * - X = = = X * X * --- $\overline{X}^{*(u)} = 10^{k} - 1 - X^{(u)}$ 2(4) = (4(4) - X(4)) mod 10 = = (Y⁽ⁿ⁾+10^k-1-X^(h)+1) med 10^h. = (y(x) + X*(x) +1) mod 10h 90 Complenting of a BCD digit.



1.4. Parallel Computation of Sum