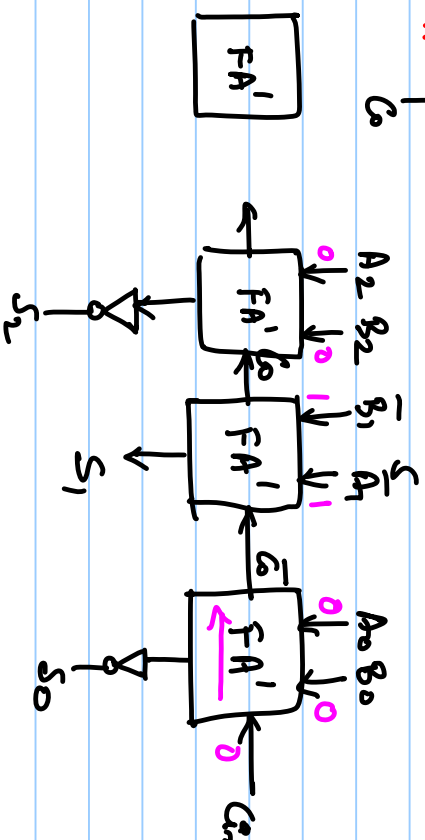


28 TRANSISTORS

$$S = f(A, B, C)$$

$$\bar{S} = f(\bar{A}, \bar{B}, \bar{C})$$



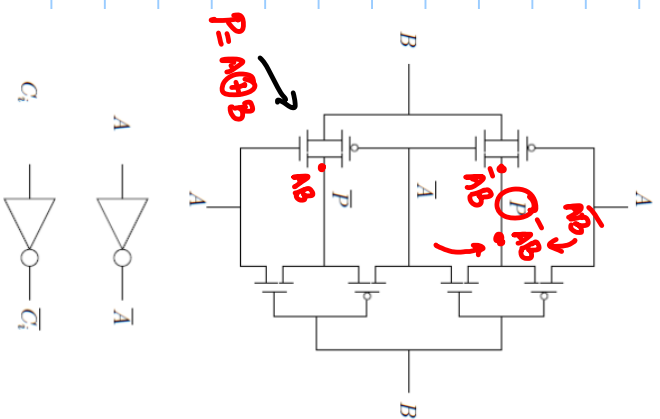
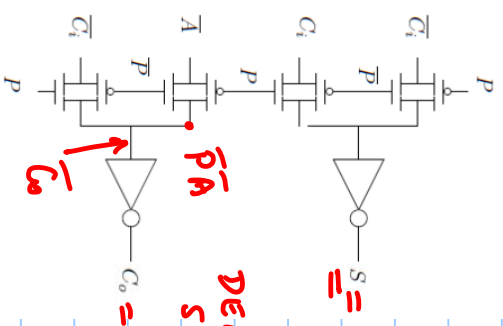
$$S = P \oplus C_i$$

$$C_o = C_i + PC_i$$

$$P = A\bar{B} + \bar{A}B$$

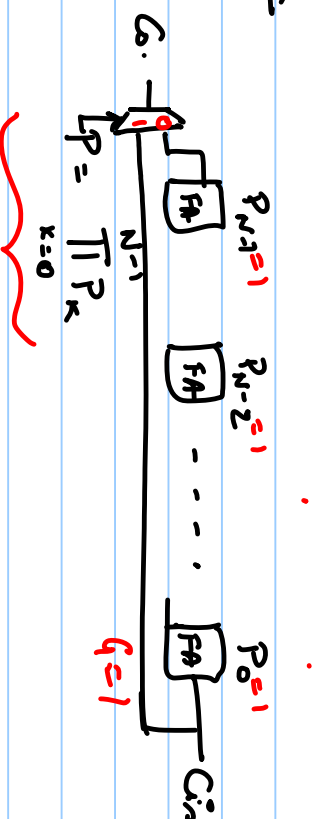
$$S = P\bar{C}_i + \bar{P}C_i$$

DELAY IS  
SIMILAR FOR  
 $C_o$  &  $S$   $C_o = C_i + PC_i$



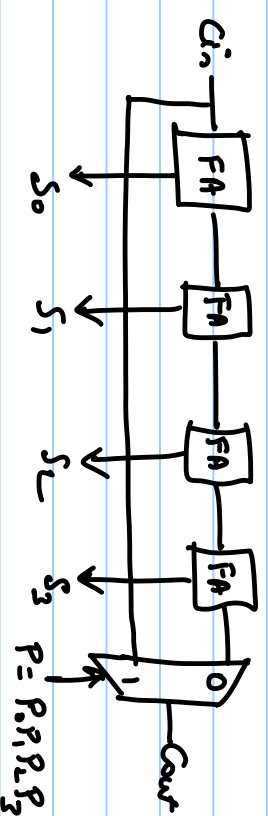
SERVER: 128

# CARRY SKIP ADDER



Partition  $N$  bits into  $M$  bit segments

$$\# \text{ STAGES} = \frac{N}{M}$$

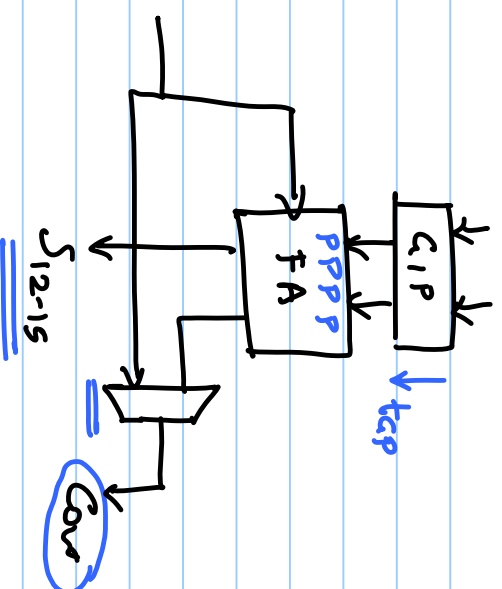
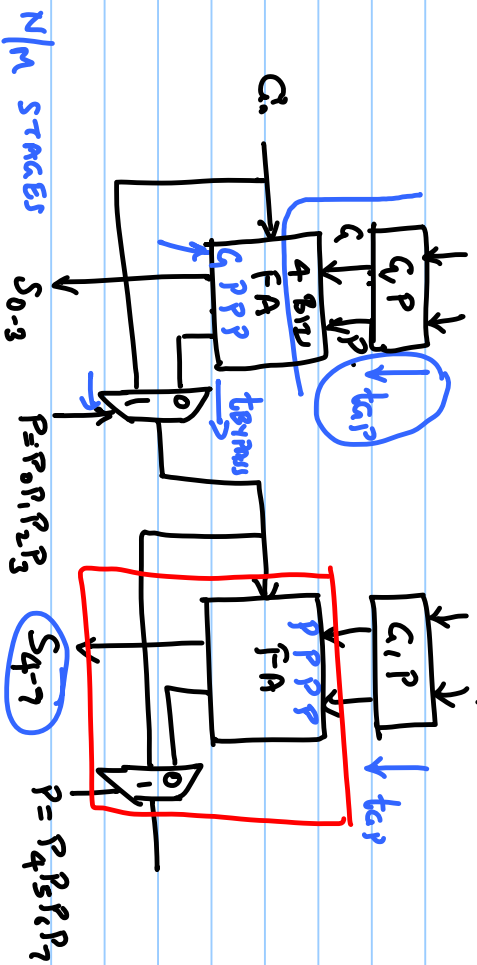


M-Bus

A0-3 B0-3

A4-7 B4-7

A<sub>12-15</sub> B<sub>12-15</sub>

$$\text{Cost} = G + P C_{in}$$


$t_{GP} = \text{CREATE GEN/PROP SIGNALS.}$

$t_{sum} = \text{FA Time To Create sum}$

$t_{\text{array}} = \text{Cost}$

$t_{gap} = M \times \text{Time}$

$$t_{\text{CARET-Skip}} = t_{\text{CP}} + M \cdot t_{\text{CARET}}$$

$$+ \binom{N-1}{n} t_{\text{Bpass}} + (n-1) t_{\text{cansy}} + t_{\text{sum}}$$