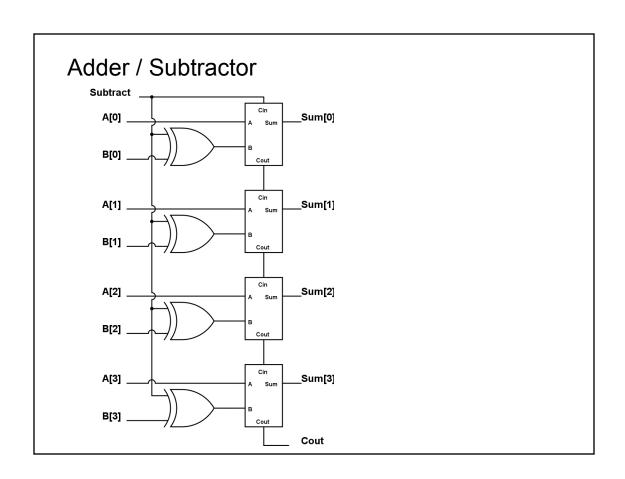
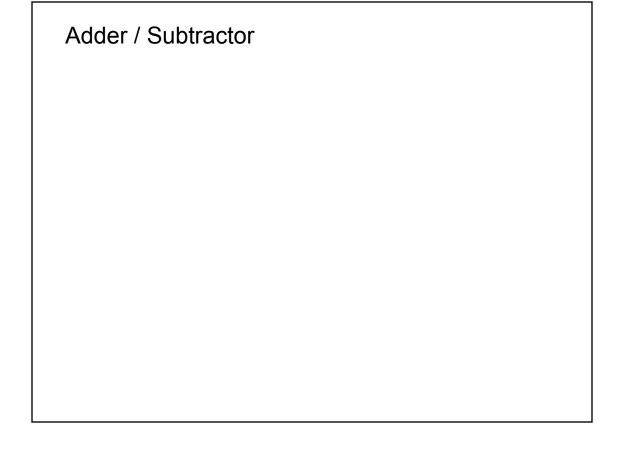
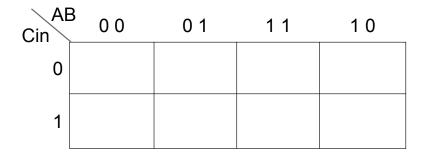
# **Overflow Errors**

# **Underflow Errors**





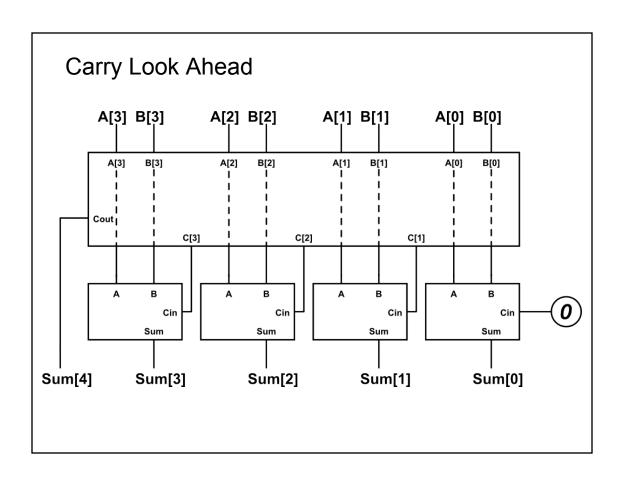




### Carry Look Ahead

```
Cin[0] = C0
Cin[1] = G[0] + P[0]*Cin[0]
Cin[2] = G[1] + P[1]*Cin[1]
Cin[3] = G[2] + P[2]*Cin[2]
...

Cin[0] = C0
Cin[1] = G[0] + P[0]*(C0)
Cin[2] = G[1] + P[1]*( G[0] + P[0]*C0 )
Cin[3] = G[2] + P[2]*( G[1] + P[1]*( G[0] + P[0]*C0 ) )
...
```

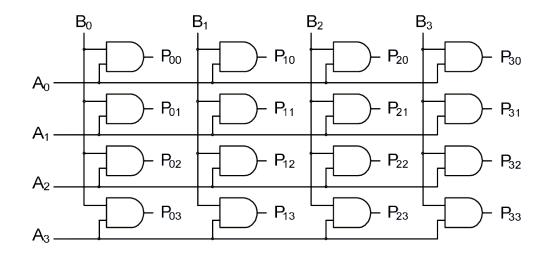


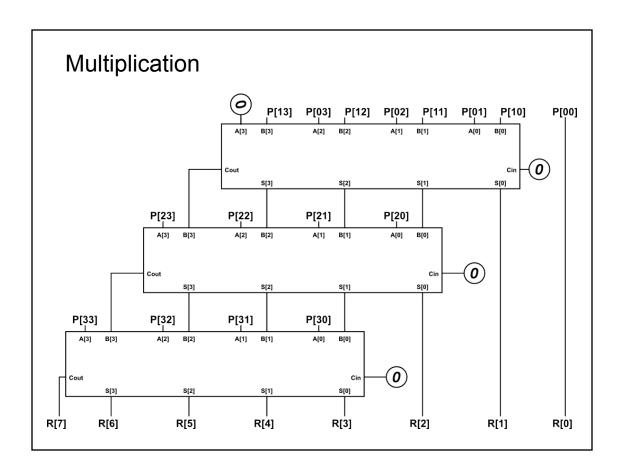
# Multiplication

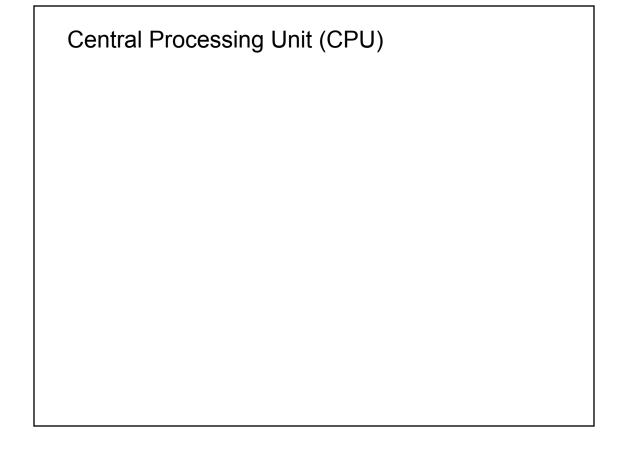
1 0 1 0 x 1 1 0 1

#### Multiplication

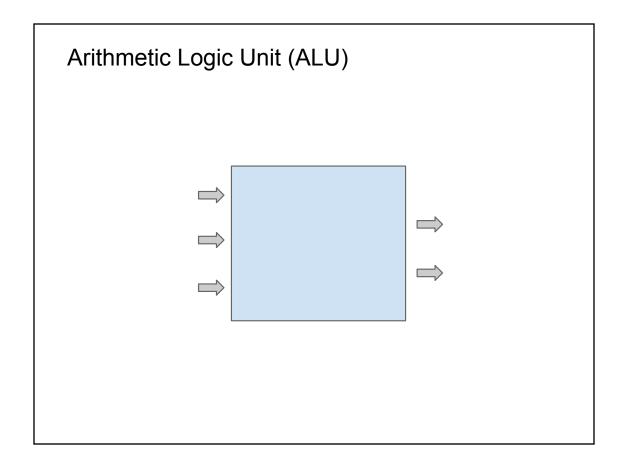


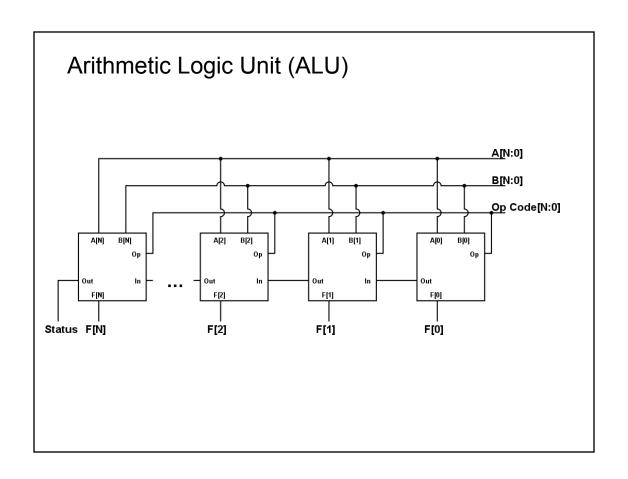






Arithmetic Logic Unit (ALU)





ALU	Oper	ation <sup>-</sup>	Table
	<b>–</b> P – .	<b>U U</b>	

Op Code	Function	Status
000		
001		
010		
011		
100		
111		