

SUMA				
A	B	Cin	Cout	S
0	0	0	0	0
0	0	1	0	1
0	1	0	0	1
0	1	1	1	0
1	0	0	0	1
1	0	1	1	0
1	1	0	1	0
1	1	1	1	1

Sum / Substraction Logic
Lógica de Generación de Carry
Lógica de Propagación de Carry

$S=A \oplus B \oplus Cin$
 $G=A \cdot B$
 $P=A+B$

RESTA				
A	B	Cin	Cout	R
0	0	0	0	0
0	0	1	1	1
0	1	0	1	1
0	1	1	1	0
1	0	0	0	1
1	0	1	0	0
1	1	0	0	0
1	1	1	1	1

$R=A \oplus B \oplus Cin$
 $G=\bar{A} \cdot B$
 $P=\bar{A}+B$

GENERAL							
Operación	Add/Sub	A	A ^ Add/Sub	B	Cin	Cout	X
SUMA	0	0	0	0	0	0	0
					1	0	1
RESTA	1	0	1	1	0	0	1
					1	1	0
SUMA	0	1	0	0	0	0	1
					1	1	0
RESTA	1	1	0	1	0	1	0
					1	1	1

Sum / Substraction Logic
Lógica de Generación de Carry
Lógica de Propagación de Carry

$X = A \oplus B \oplus Cin$
 $G = (A \wedge Add/Sub) \cdot B$
 $P = (A \wedge Add/Sub) + B$

Carry a Calcular	1	1	2	3	4	5
	COL 0	COL 1	COL 2	COL 3	COL 4	COL 5
J C0						
0 C1	G0	P0.C0				
1 C2	G1	P1.G0	P1.P0.C0			
2 C3	G2	P2.G1	P2.P1.G0	P2.P1.P0.C0		
3 C4	G3	P3.G2	P3.P2.G1	P3.P2.P1.G0	P3.P2.P1.P0.C0	
4 C5	G4	P4.G3	P4.P3.G2	P4.P3.P2.G1	P4.P3.P2.P1.G0	P4.P3.P2.P1.P0.C0
		COL 1	COL 2	COL 3	...	COL N
CN	GN	PN.GN-1	PN.PN-1.GN-2	PN.PN-1.PN-2.GN-3	...	PN.PN-1.PN-2.PN-i.P0.C0
Cout = CN+1						