

[illegible]

Table 1: A: Negative number + negative number with overflow flag (V-flag)

$v = c_{out} \oplus c_{31}$	0																																				
$carry(c_{out} \cdots c_{00})$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	<i>unsigned</i>	<i>2's</i>		
$A[31:0]$		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	4294967294	-2	
$B[31:0]$		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4294967294	-1	
$sum[31:0]$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	8589934589	-3

Table 2: B: Negative number + negative number without overflow flag (V-flag)

[illegible]

Table 3: C: Positive number + positive number with overflow flag (V-flag)

[illegible]

Table 4: D: Positive number + positive number without overflow flag (V-flag)

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Table 5: E: Positive number + negative number without overflow flag (V-flag)

$v = c_{out} \oplus c_{31}$	0																																					
$carry(c_{out} \cdots c_{00})$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	<i>unsigned</i>	<i>2's</i>
$A[31:0]$		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3221225473	-1073741823
$B[31:0]$		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	3
$sum[31:0]$	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3221225476	-1073741820

Table 6: Negative number + positive number without overflow flag (V-flag), Worst case propagation delay, C0 is set