

21. Arithmetic overflow occurs during a two's complement addition if the result of adding two positive numbers yields a negative result, or if adding two negative numbers yields a positive result. If the sign bits of A and B are the same but the sign bit of the result is different, arithmetic overflow has occurred. If a_{n-1} is the sign bit of A , b_{n-1} is the sign bit of B , and s_{n-1} is the sign bit of the sum of A and B , then overflow is defined by

$$V = a_{n-1} \cdot b_{n-1} \cdot \overline{s_{n-1}} + \overline{a_{n-1}} \cdot \overline{b_{n-1}} \cdot s_{n-1}$$

In practice, real systems detect overflow from $C_{n-1} = C_{n-2}$ in the last stage. That is, we detect overflow from

$$V = c_{n-2} \oplus c_{n-1} = c_{n-2} \oplus \overline{c_{n-2}}$$

Demonstrate that this expression is correct.

SOLUTION

The diagram illustrates the most significant stage of a parallel adder that adds together bits a_{n-1} , b_{n-1} , and c_{n-1} to generate a sum bit, s_{n-1} , and a carry-out, c_n . There are four possible combinations of A and B which can be added together:



Because adding two numbers of differing sign cannot result in arithmetic overflow, we need consider only the cases where A and B are both positive, and where A and B are both negative.

Case 1: A and B are positive; that is, $a_{n-1} = 0$, $b_{n-1} = 0$.

The final stage adds $a_{n-1} + b_{n-1} + c_{n-1}$ to get c_n . Because a_{n-1} and b_{n-1} are both 0 (by definition if the numbers are positive), the carry-out, c_n , is 0, and $s_{n-1} = c_{n-1}$.

We know that overflow occurs if $s_{n-1} = 1$ (i.e., the sign bit of the sum is negative), therefore overflow occurs if $c_{n-1} = 1$.

Case 2: A and B are negative; that is, $a_{n-1} = 1$, $b_{n-1} = 1$.

The final stage adds $a_{n-1} + b_{n-1} + c_{n-1} = 1 + 1 + c_{n-1}$ to get a sum, $s_{n-1} = c_{n-1}$, and a carry-out, $c_n = 1$.

Overflow occurs if $s_{n-1} = 0$. Consequently, overflow occurs when $c_{n-1} = 0$ and $c_n = \overline{c_{n-1}} = 1$.

Considering both cases, overflow occurs if $c_{n-2} \oplus c_{n-1} = c_{n-2} \oplus \overline{c_{n-2}} = 1$.

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