

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

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

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

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

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 $c_n \oplus c_{n-1} = 1$.

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

Alan Clements Solution Manual

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Table of Contents Alan Clements Solution Manual

1. Understanding the eBook Alan Clements Solution Manual
 - The Rise of Digital Reading Alan Clements Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Alan Clements Solution Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Alan Clements Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Alan Clements Solution Manual
 - Personalized Recommendations

- Alan Clements Solution Manual User Reviews and Ratings
- Alan Clements Solution Manual and Bestseller Lists
- 5. Accessing Alan Clements Solution Manual Free and Paid eBooks
 - Alan Clements Solution Manual Public Domain eBooks
 - Alan Clements Solution Manual eBook Subscription Services
 - Alan Clements Solution Manual Budget-Friendly Options
- 6. Navigating Alan Clements Solution Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Alan Clements Solution Manual Compatibility with Devices
 - Alan Clements Solution Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Alan Clements Solution Manual
 - Highlighting and Note-Taking Alan Clements Solution Manual
 - Interactive Elements Alan Clements Solution Manual
- 8. Staying Engaged with Alan Clements Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Alan Clements Solution Manual
- 9. Balancing eBooks and Physical Books Alan Clements Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Alan Clements Solution Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Alan Clements Solution Manual
 - Setting Reading Goals Alan Clements Solution Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Alan Clements Solution Manual
 - Fact-Checking eBook Content of Alan Clements Solution Manual

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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