Reese Ford – Lab 8 Report

03/25/2024

A screenshot of a computer

Description automatically generated

\*\*\*\*\*\*\* BEGIN TEST RESULTS \*\*\*\*\*\*\*

Test Case 1: | (10 + 15)

+++ Step 1: Pass: |alu\_result| time = 5 ns | er = 25 | ar = 25 | er\_bits = 64 | ar\_bits = 64 +++

+++ Step 2: Pass: |zero| time = 5 ns | er = 0 | ar = 0 | er\_bits = 1 | ar\_bits = 1 +++

Test Case 2: | (10 - 15)

+++ Step 1: Pass: |alu\_result| time = 15 ns | er = -5 | ar = -5 | er\_bits = 64 | ar\_bits = 64 +++

+++ Step 2: Pass: |zero| time = 15 ns | er = 0 | ar = 0 | er\_bits = 1 | ar\_bits = 1 +++

Test Case 3: | (10 & 15)

+++ Step 1: Pass: |alu\_result| time = 20 ns | er = 10 | ar = 10 | er\_bits = 64 | ar\_bits = 64 +++

+++ Step 2: Pass: |zero| time = 20 ns | er = 0 | ar = 0 | er\_bits = 1 | ar\_bits = 1 +++

Test Case 4: | (10 | 15)

+++ Step 1: Pass: |alu\_result| time = 25 ns | er = 15 | ar = 15 | er\_bits = 64 | ar\_bits = 64 +++

+++ Step 2: Pass: |zero| time = 25 ns | er = 0 | ar = 0 | er\_bits = 1 | ar\_bits = 1 +++

Test Case 5: | PASS b=15

+++ Step 1: Pass: |alu\_result| time = 30 ns | er = 15 | ar = 15 | er\_bits = 64 | ar\_bits = 64 +++

+++ Step 2: Pass: |zero| time = 30 ns | er = 0 | ar = 0 | er\_bits = 1 | ar\_bits = 1 +++

Test Case 6: | PASS b=0

+++ Step 1: Pass: |alu\_result| time = 35 ns | er = 0 | ar = 0 | er\_bits = 64 | ar\_bits = 64 +++

+++ Step 2: Pass: |zero| time = 35 ns | er = 1 | ar = 1 | er\_bits = 1 | ar\_bits = 1 +++

Test Case 7: | (65536 + 65536)

+++ Step 1: Pass: |alu\_result| time = 40 ns | er = 131072 | ar = 131072 | er\_bits = 64 | ar\_bits = 64 +++

+++ Step 2: Pass: |zero| time = 40 ns | er = 0 | ar = 0 | er\_bits = 1 | ar\_bits = 1 +++

Test Case 8: | (65536 - 65536)

+++ Step 1: Pass: |alu\_result| time = 50 ns | er = 0 | ar = 0 | er\_bits = 64 | ar\_bits = 64 +++

+++ Step 2: Pass: |zero| time = 50 ns | er = 1 | ar = 1 | er\_bits = 1 | ar\_bits = 1 +++

Pass Count = 16

Fail Count = 0

\*\*\*\*\*\*\* END TEST RESULTS \*\*\*\*\*\*\*