* **RIPPLE CARRY ADDER.**
* **CONDITIONAL SUM ADDER.**
* **CARRY LOOK AHEAD ADDER.**

**RIPPLE CARRY ADDER**:

**TEST RESULTS**:

|  |  |
| --- | --- |
| **NUMBER OF LUT'S** | 16 |
| **NUMBER OF IO'S** | 26 |
| **CRITICAL PATH DELAY** | 11.8061ns, Post-route- 6.053ns |

**SIMULATION RESULTS:** Please refer **Behavioural\_Ripple\_Carry.png** and **Ripple\_Carry\_Postroute.png.**

**CONDTIONAL SUM ADDER:**

**TEST RESULTS:**

|  |  |
| --- | --- |
| **NUMBER OF LUT'S** | 18 |
| **NUMBER OF IO'S** | 26 |
| **CRITICAL PATH DELAY** | 12.239, Post-route-5.999ns |

**SIMULATION RESULTS:** Please refer **Cond\_Sum\_Adder\_Behavioural.png** and **Cond\_Sum\_Adder\_Postroute.png.**

**CARRY LOOK AHEAD ADDER:**

**TEST RESULTS:**

|  |  |
| --- | --- |
| **NUMBER OF LUT'S** | 16 |
| **NUMBER OF IO'S** | 26 |
| **CRITICAL PATH DELAY** | 10.7821, Post-route-12.366ns |

**SIMULATION RESULTS:** Please refer **Carry\_Look\_Ahead\_Behavioural.png** and **Carry\_Look\_Ahead\_Postroute.png**