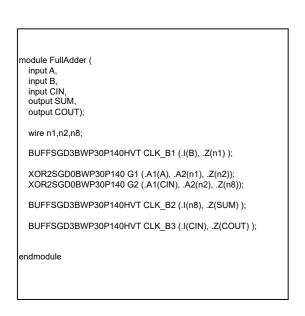
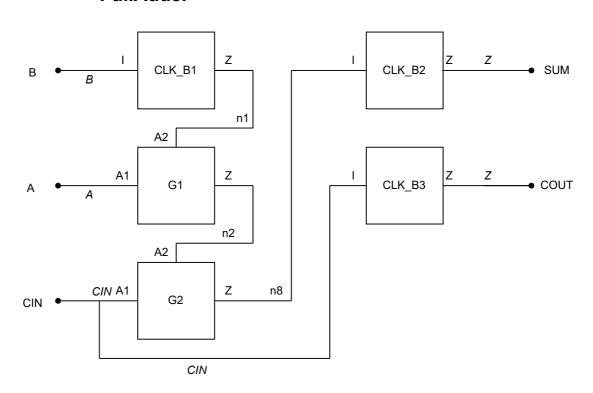
FullAdder

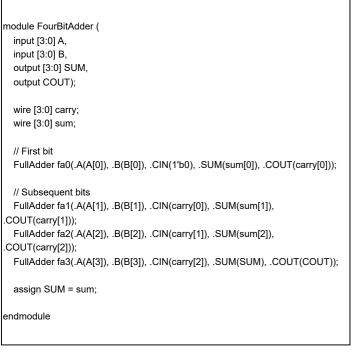


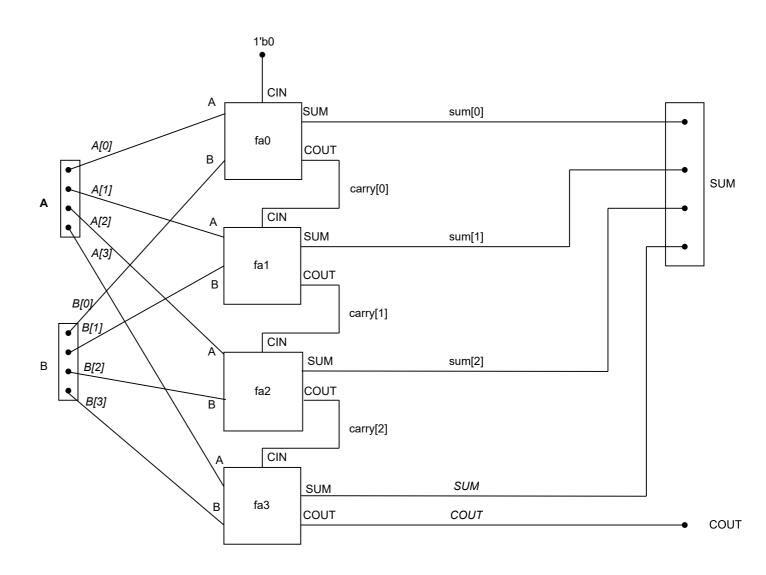


- 1. Instance Ref_names: CLK_B1, CLK_B2, CLK_B3, G1, G2
- 2. Ports: A, B, CIN, SUM, COUT
- 3. **Pins**: (I,Z), (I,Z), (I,Z), (A1, A2, Z), (A1, A2, Z)
- 4. Nets: n1, n2, n8
- 5. Port derived nets:
 - 1. B -> I *CLK_B1* , **B**
 - 2. A -> A1 G1, A 3. CIN -> A1 G2, CIN
 - 4. CIN -> I CLK_B3 CIN

 - 5. Z -> SUM CLK_B2 Z
 - 6. Z -> COUT *CLK_B3* **Z**

FourbitAdder





- 1. Instance Ref_names: fa0, fa1, fa2, fa3
- 2. Ports: A[3:0], B[3:0], SUM, COUT
- 3. **Pins**: (A,B,CIN,SUM,COUT), (A,B,CIN,SUM,COUT), (A,B,CIN,SUM,COUT), (A,B,CIN,SUM,COUT)
- 4. **Nets**: sum[0], sum[1], sum[2], carry[0], carry[1], carry[2]
- 5. Port derived nets:
 - 1. A[0] -> A fa0 A[0]
 - 2. A[1] -> A fa1 A[1]
 - 3. A[2] -> A fa2 A[2]
 - 4. A[3] -> A fa3 A[3]
 - 5. B[0] -> A fa0 B[0]
 - 6. B[1] -> A fa1 B[1] 7. B[2] -> A fa2 B[2]
 - 8. B[3] -> A fa3 B[3]
 - 9. SUM -> SUM[3] fa3 SUM
 - 10. COUT -> COUT fa3 COUT