

架構圖總共有以下Part:

Part 1. ALU:

- full\_adder.v
- alu\_1bit.v
- alu\_1bit32th.v
- ALU.v

Part 2. 乘法器:

- Multiplier.v
- HiLo.v

Part 3. 移位器:

- mux\_2to1.v
- Shifter.v

Part 4. 輸入輸出:

- ALUControl.v
- MUX.v

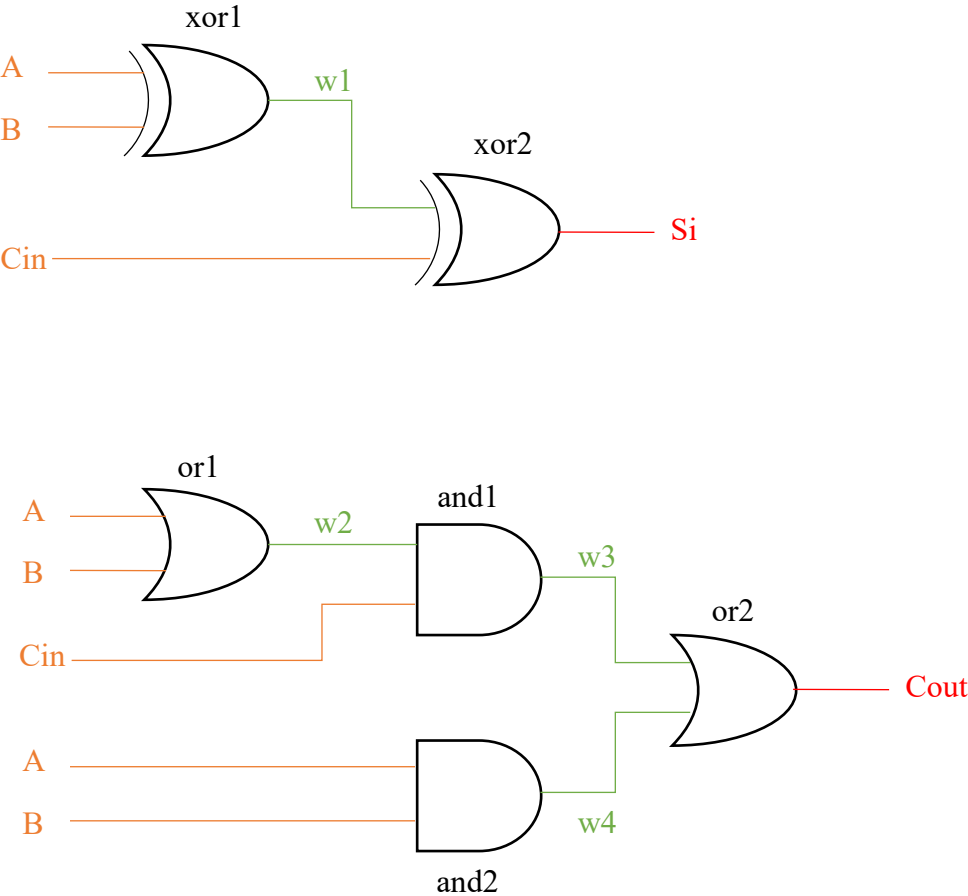
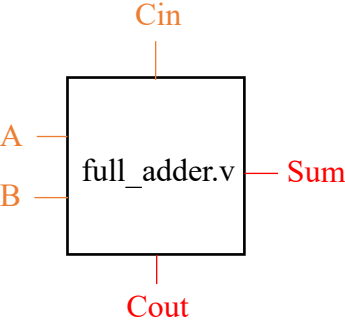
Part 5. Total:

- TotalALU.v

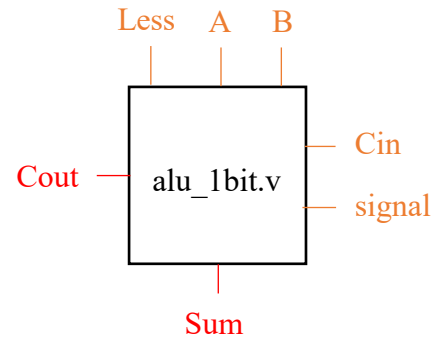
Part 6. 測試檔:

- tb\_ALU.v

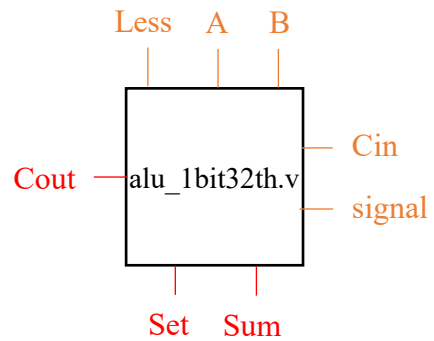
full\_adder.v



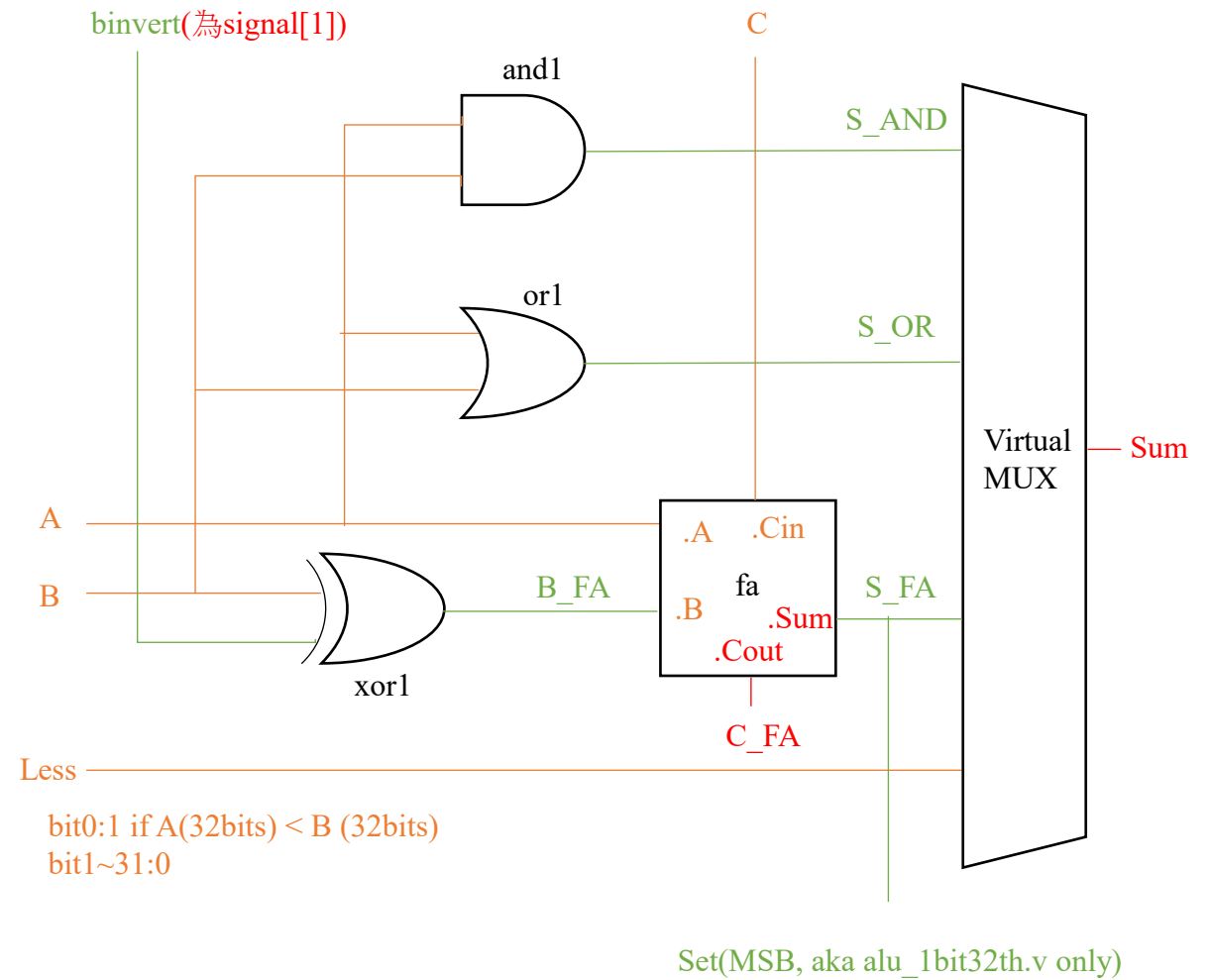
alu\_1bit.v



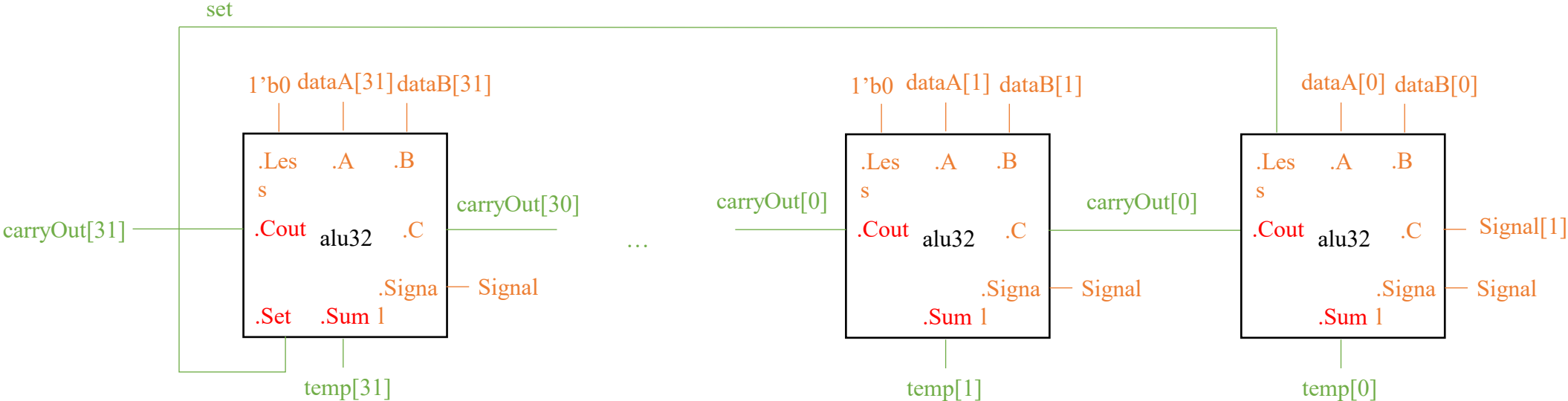
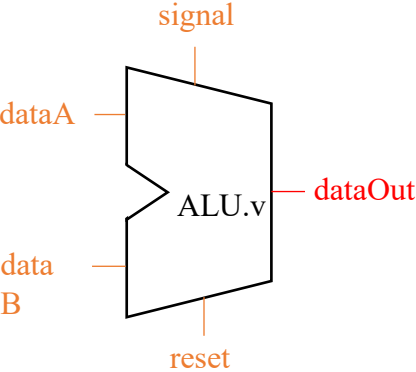
alu\_1bit32th.v



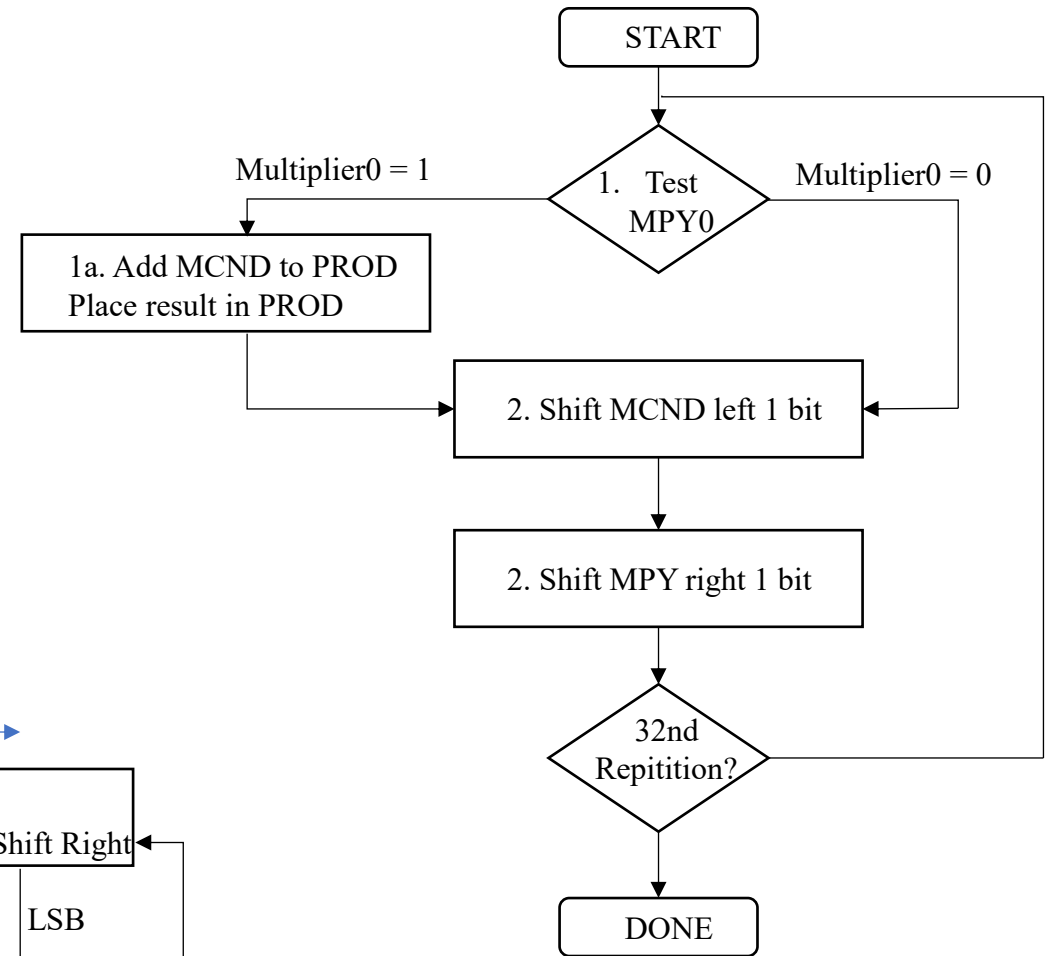
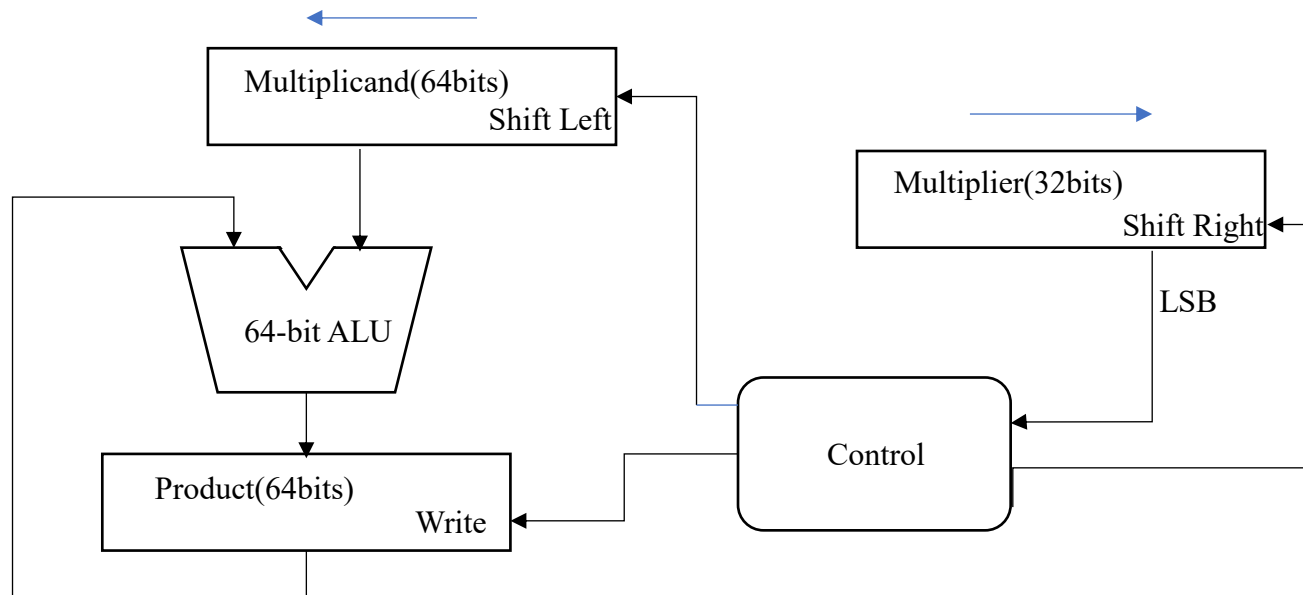
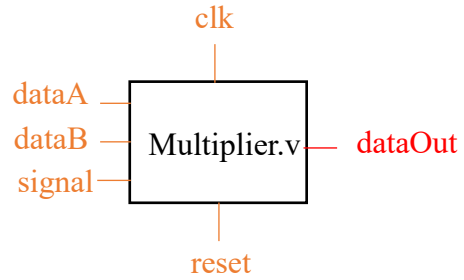
alu\_1bit.v / alu\_1bit32th.v (32bits比1bit多一個set)



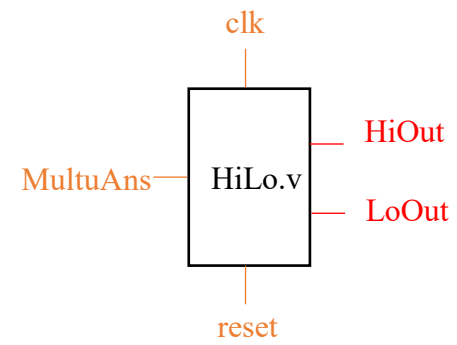
ALU.v



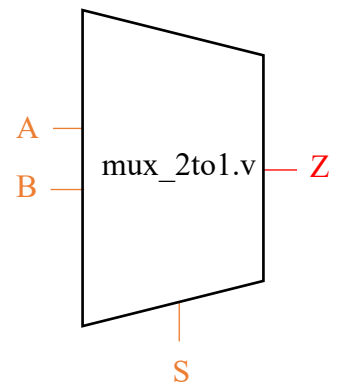
## Multiplier.v



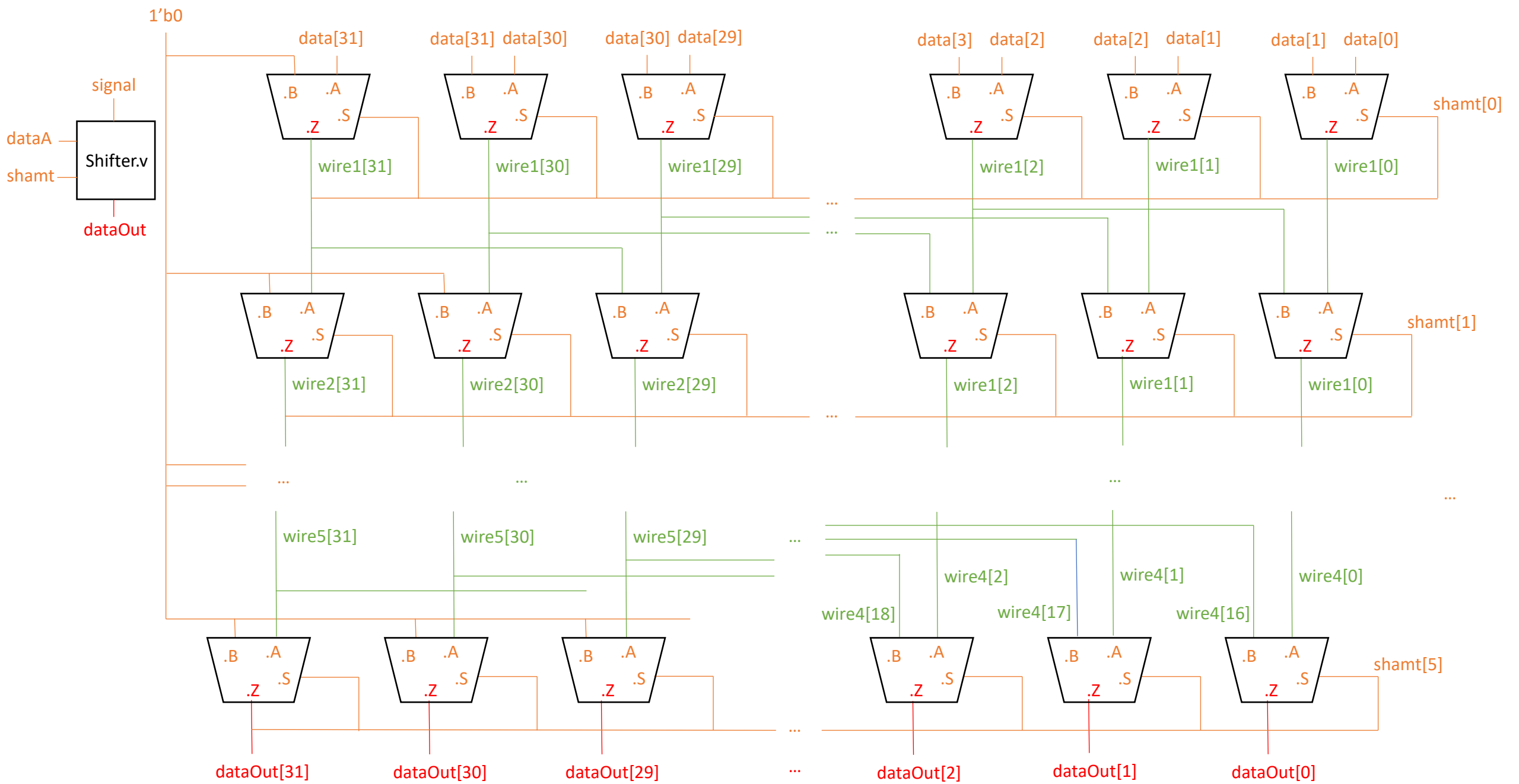
HiLo.v



mux\_2to1.v

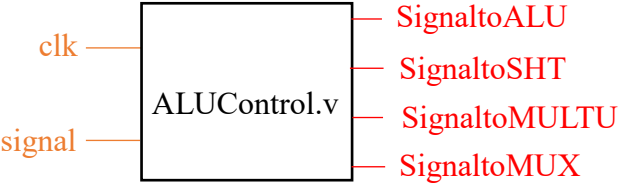


Shifter.v

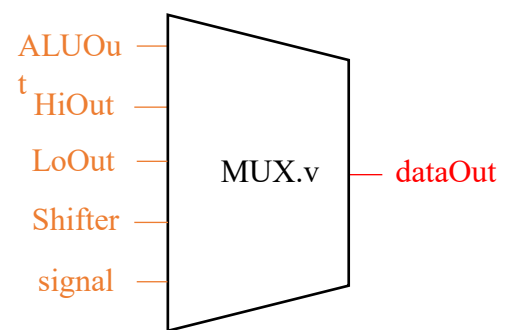




ALUControl.v



MUX.v



TotalALU.v

