LSV PA1

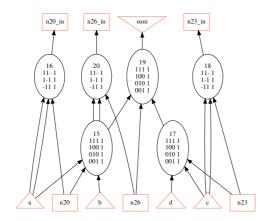
R10921104 王怡堯

1.

network structure

Network structure visualized by ABC Benchmark "4numSerialAdder". Time was Fri Oct $\,8\,00:53:48\,2021.$

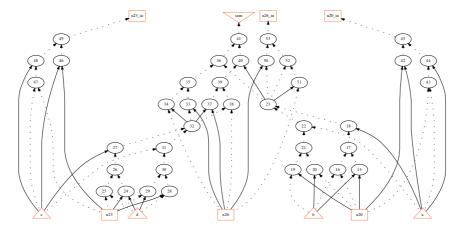
The network contains 6 logic nodes and 3 latches.

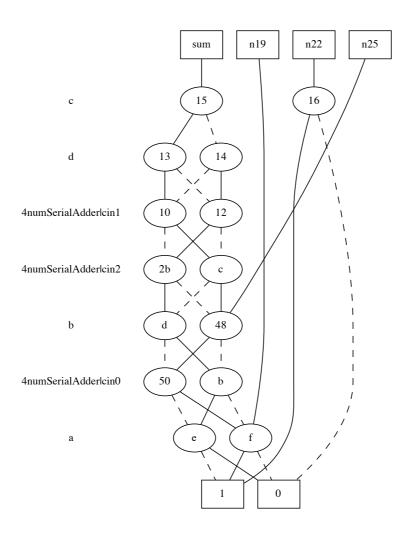


AIG

Network structure visualized by ABC Benchmark "4numSerialAdder". Time was Fri Oct 8 01:01:05 2021.

The network contains 39 logic nodes and 3 latches.





2.

(a)

(1)

aig – Only converts the node to AIG ,still a logic network.strash – Transforms the whole network into an AIG.

(2)

bdd–Only converts the node to BDD ,still a logic network. **collapsed** – Transforms the whole network into an BDD.

(b)

logic– Transforms the AIG into a logic network with the SOP representation of the two-input AND-gates.