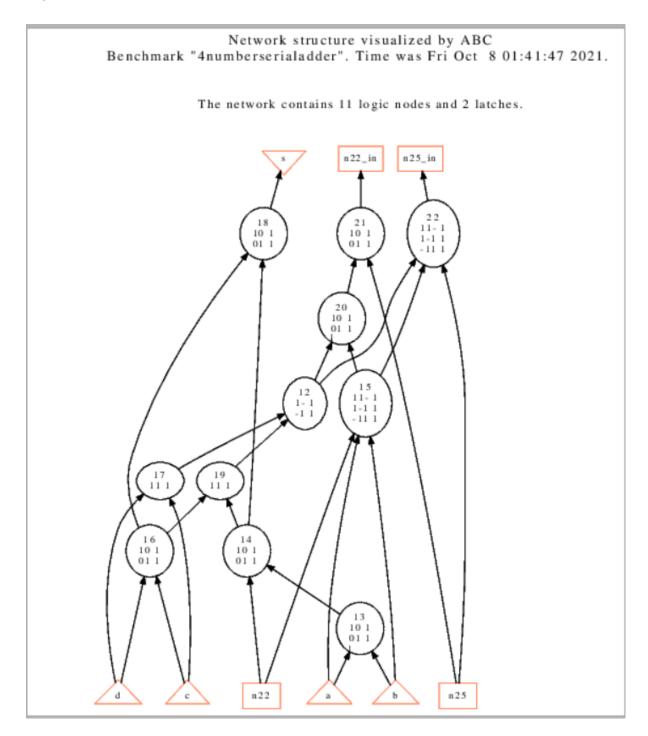
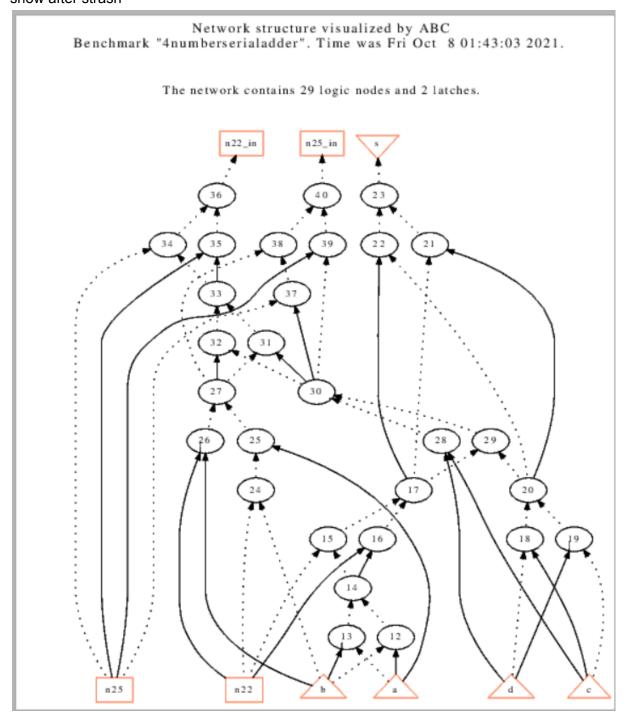
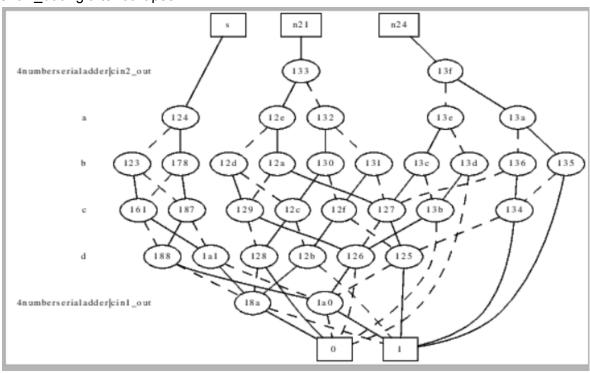
PART I. original show



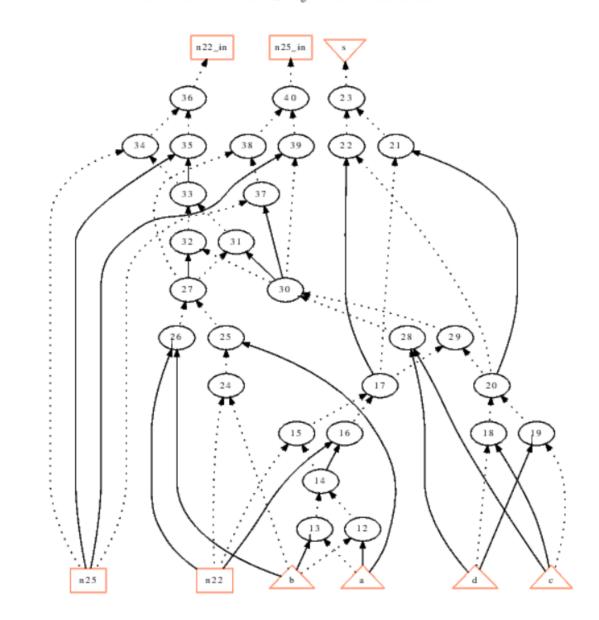


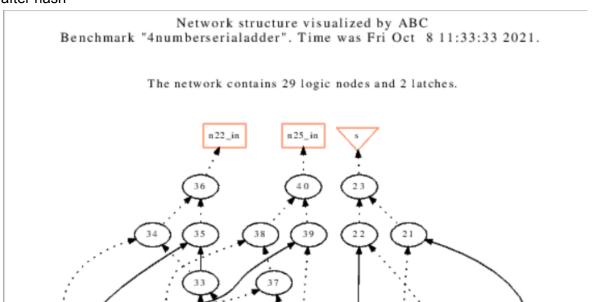
show_bdd -g after collapse



Network structure visualized by ABC Benchmark "4numberserialadder". Time was Fri Oct 8 11:32:24 2021.

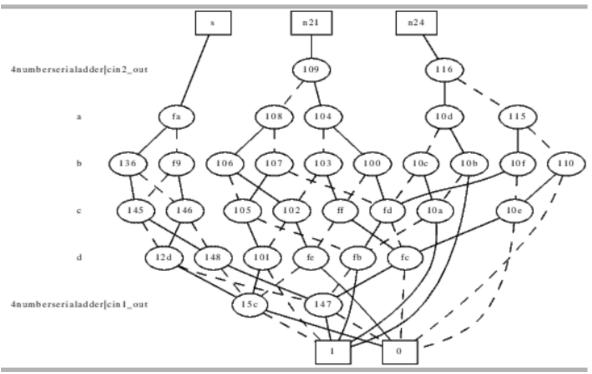
The network contains 29 logic nodes and 2 latches.



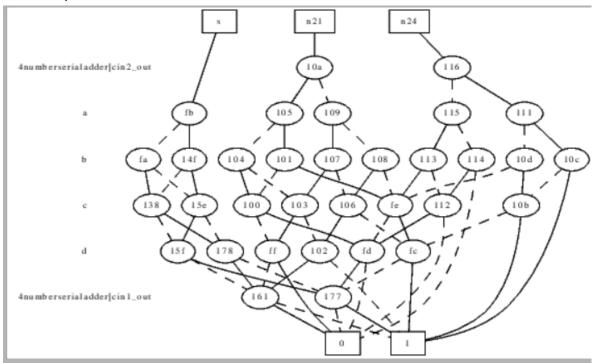


We see that the two AIG diagrams are identical. This implies that the original AIG network is in fact a functionally reduced network. The reason may lie behind the initial configuration of the logic network written in the blif file.

1.(b) before collapse



after collapse



We can see that the two BDDs are mainly the same. The only slight difference is the allocation of 0&1. I also notice that the node been applied a different way of naming.

2.logic