Logic Synthesis & Verification PA1

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2. (b)

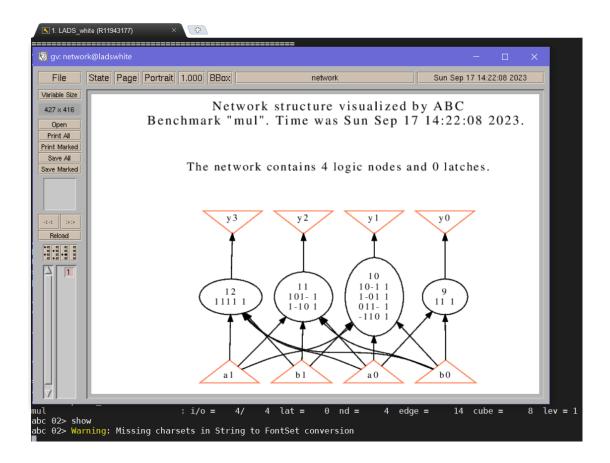
1. read the BLIF file into ABC (command "read")

```
abc 01> read lsv/pa1/mul.blif
abc 02> ■
```

check statistics (command "print_stats")



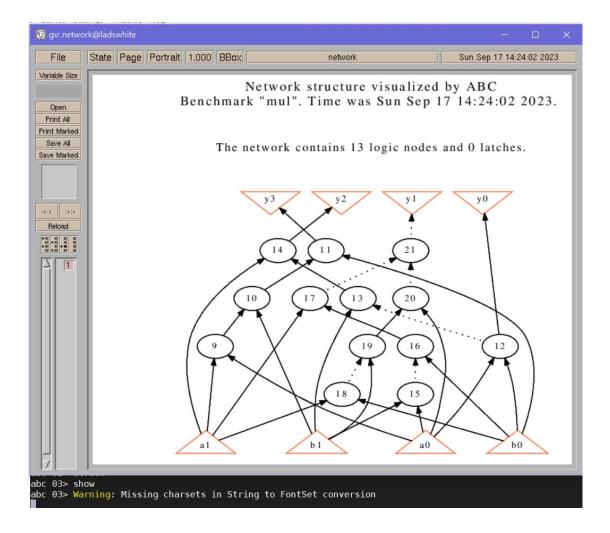
3. visualize the network structure (command "show")



4. convert to AIG (command "strash")

```
abc 02> strash
abc 03> ■
```

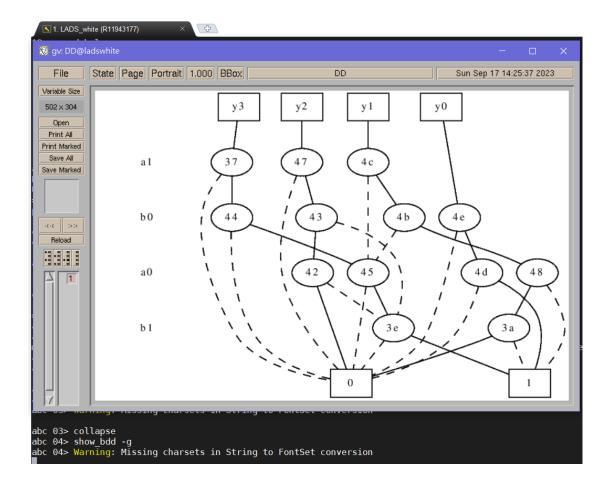
5. visualize the AIG (command "show")



6. convert to BDD (command "collapse")

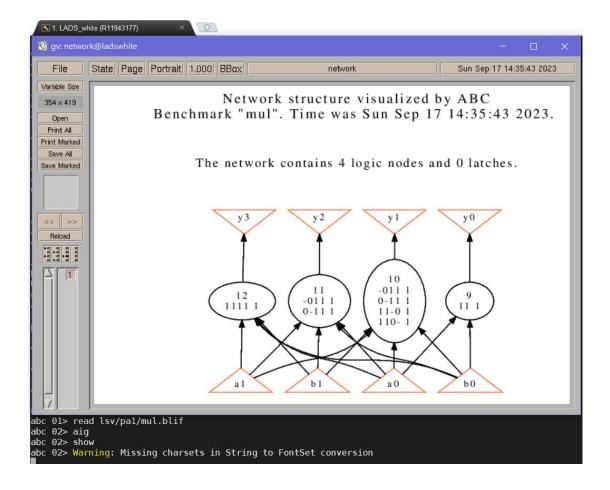
```
abc 03> collapse
abc 04> ■
```

7. visualize the BDD (command "show_bdd -g"; note that "show_bdd" only shows the first PO; option "-g" can be applied to show all POs)

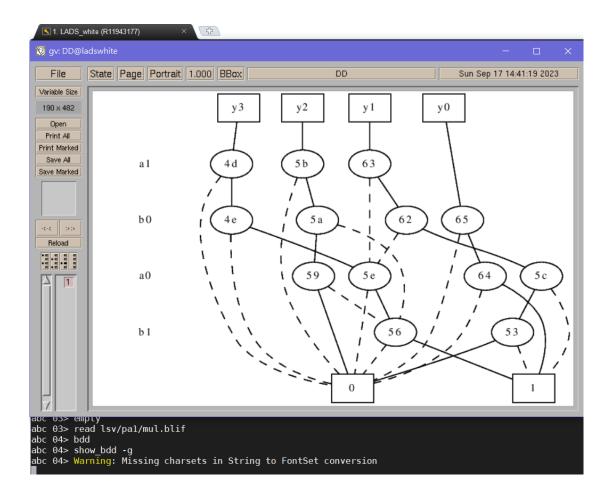


3. (a)

aig: The result is nearly identical to default read in, only it seems that the sequence for truth value description has been rearranged. It is very different from the result of command "strash".

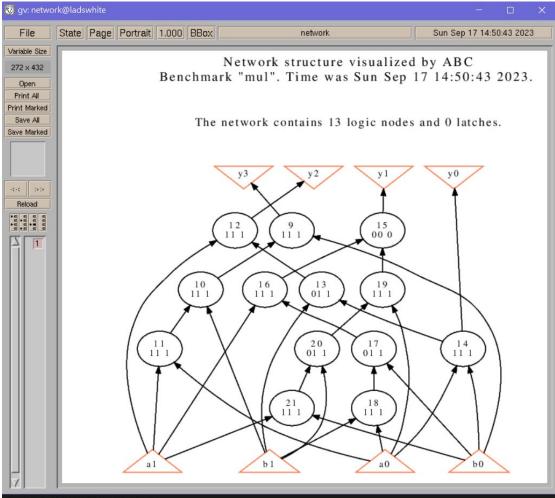


bdd: The structure is identical to the result of command "collapse", only the naming of the intermediate nodes has changed.



3. (b)

renode



abc 01> read lsv/pa1/mul.blif abc 02> strash

03> renode