

- 2. (b)
 - terminal :

```
abc 01> read mul.blif
abc 02> ps
mul : i/o = 4/ 4 lat = 0 nd = 4 edge = 16 cube = 8 lev = 1
abc 02> show
abc 02> gv: Unable to open the display.

abc 02> strash
abc 03> show
abc 03> gv: Unable to open the display.

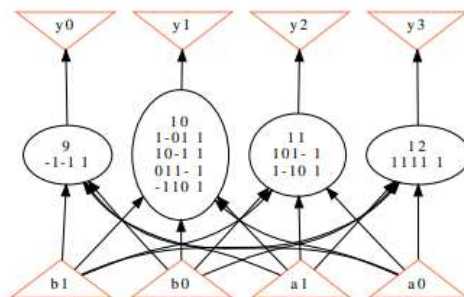
abc 03> clp
abc 04> show
abc 04> gv: Unable to open the display.

abc 04> show_bdd -g
abc 04> gv: Unable to open the display.
```

- since it still can't display on work station, I use <https://ehubsoft.herokuapp.com/psviewer/> (<https://ehubsoft.herokuapp.com/psviewer/>) to see the results

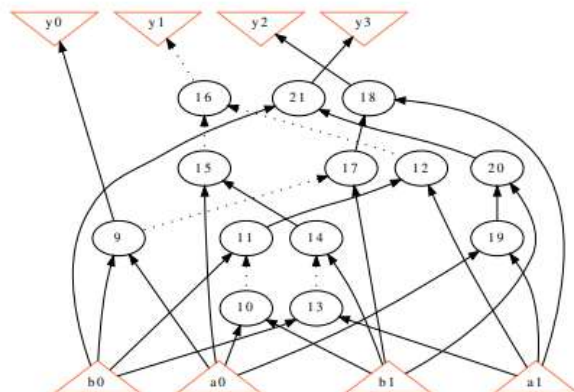
Network structure visualized by ABC
Benchmark "mul". Time was Fri Sep 15 22:05:24 2023.

The network contains 4 logic nodes and 0 latches.

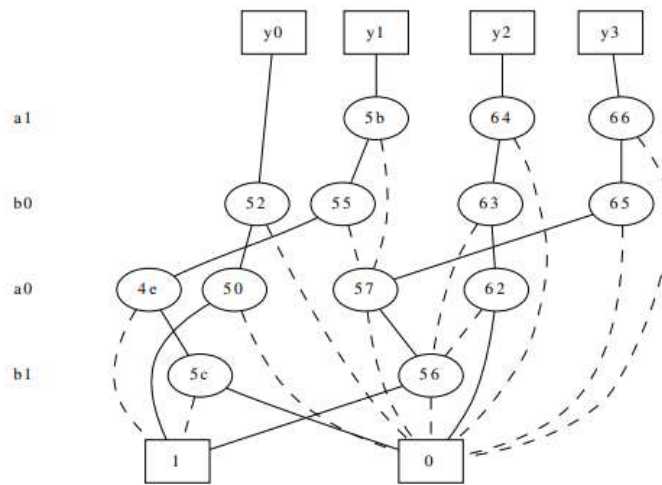


Network structure visualized by ABC
Benchmark "mul". Time was Fri Sep 15 22:06:37 2023.

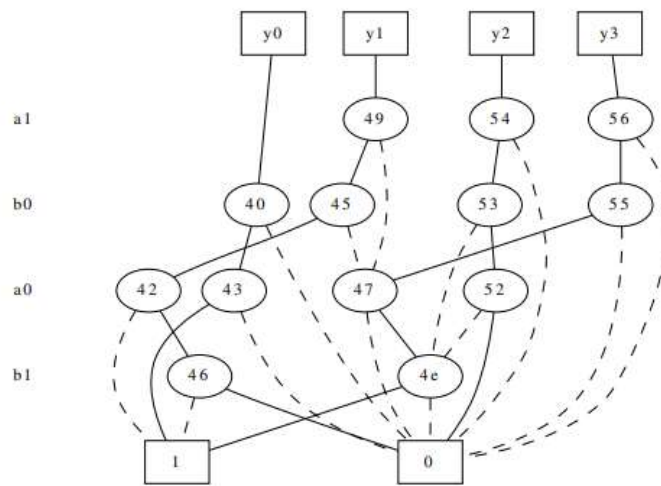
The network contains 13 logic nodes and 0 latches.



○ 7.

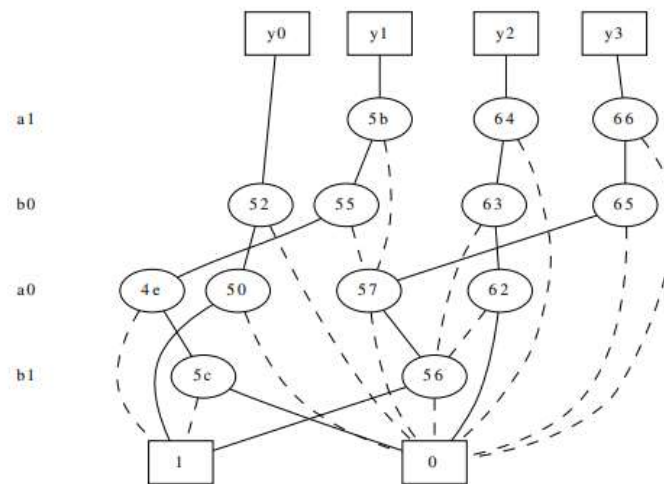


○ bdd :



- we found the result of bdd and collapse are same, it's probably because the blif file is already the simplest.

○ collapse :



• 3. (b)

○ my command sequence :

```
abc 01> read mul.blif
abc 02> strash
abc 03> logic
abc 04> sop
abc 04> show
abc 04> gv: Unable to open the display.
```

The network contains 13 logic nodes and 0 latches.