

LSV pa1 report

R12921038 王滢桓

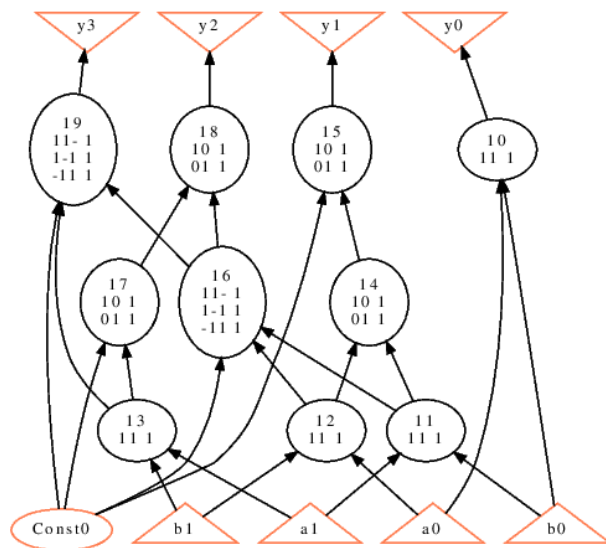
2(b)

Statistics

```
abc 625 print_stats
2bitmultiplier : i/o = 4/ 4 lat = 0 nd = 11 edge = 22 cube = 18 lev = 3
```

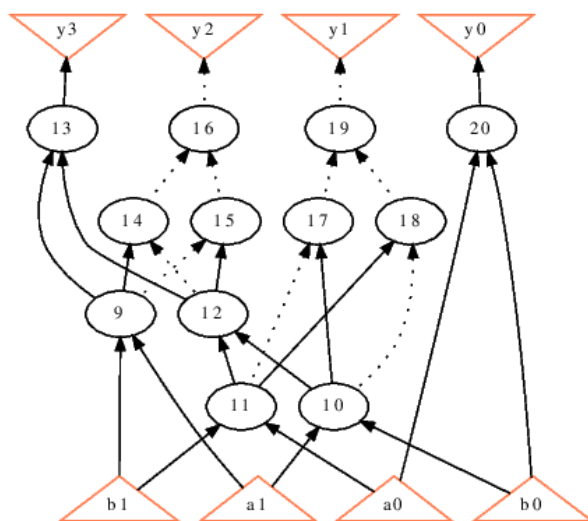
Network Architecture

The network contains 11 logic nodes and 0 latches.

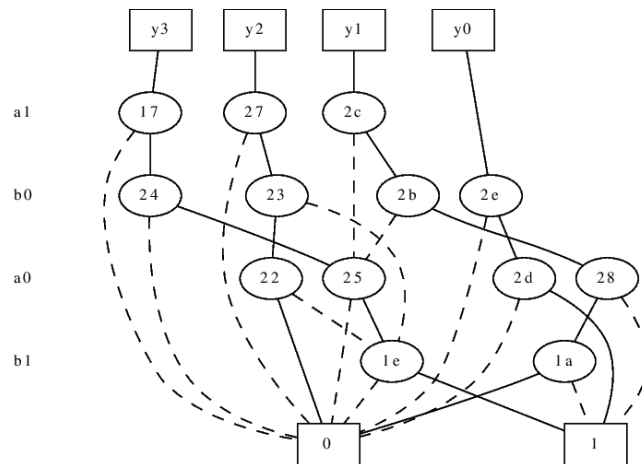


AIG

The network contains 12 logic nodes and 0 latches.



BDD

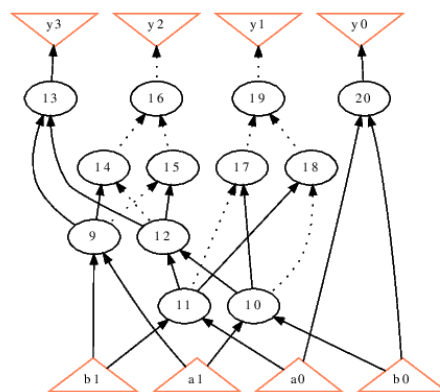
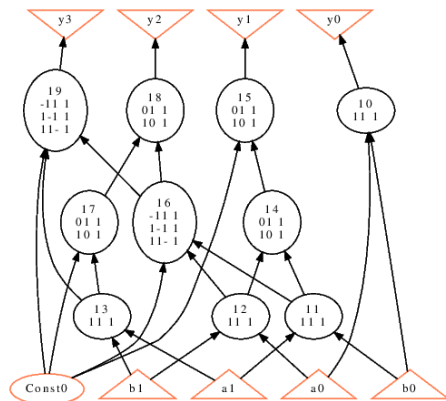


3(a)

aig v.s. strash

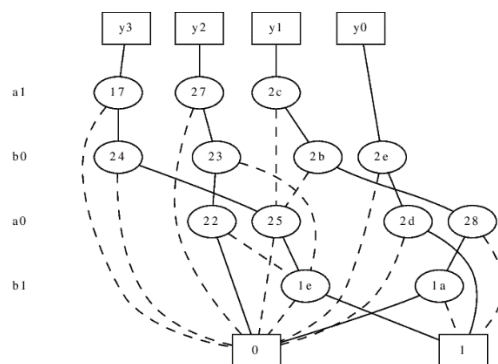
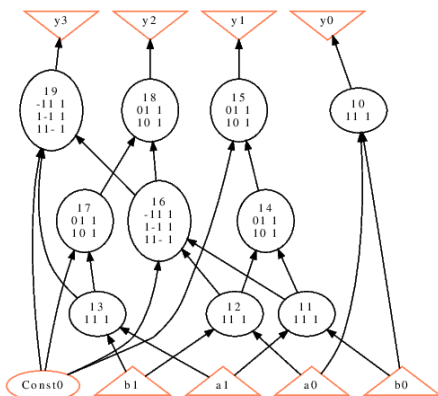
The network contains 11 logic nodes and 0 latches.

The network contains 12 logic nodes and 0 latches.



bdd v.s. collapse

The network contains 11 logic nodes and 0 latches.



我們知道 **network** 內部函數有不同表示方式，**aig** 和 **bdd** 是作用於 **node** 內部的 **local** 指令，所以呈現出來的圖會和單純讀進 **blif** 檔一樣。而 **strash** 和 **collapse** 指令是 **global** 指令，會作用於整個 **network**，所以呈現出來的圖會分別和 **aig** 和 **collapse** 不同。

3(b)

cmd: strash → logic

可以觀察到每個 node 內部有 sop 的表示形式

The network contains 12 logic nodes and 0 latches.

