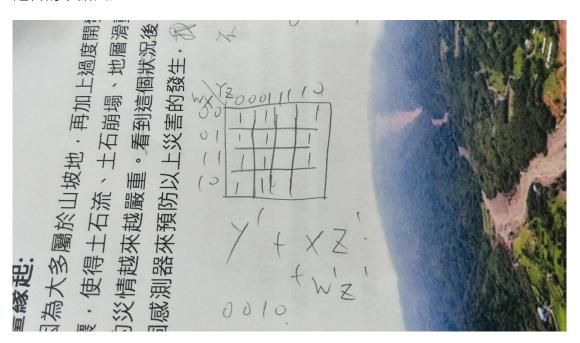
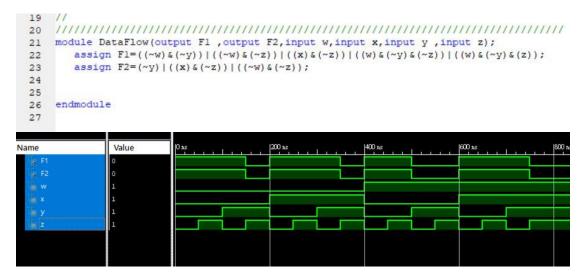
這次的實驗為卡諾圖化簡電路後,證實與原式相等

第一個實驗

題目的卡諾圖:



化簡成為 y'+xz'



證實原式(F1)相等於卡諾圖化簡後式(F2)

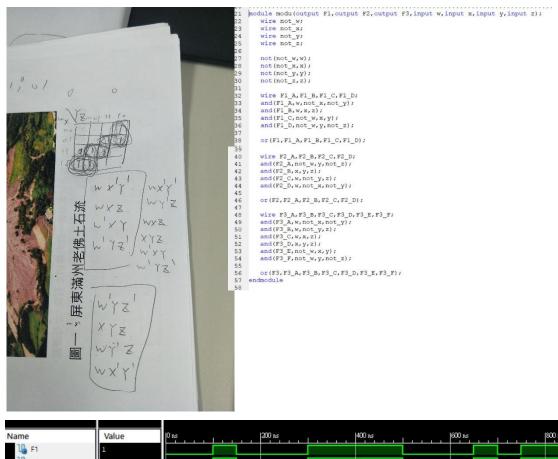
第二個實驗

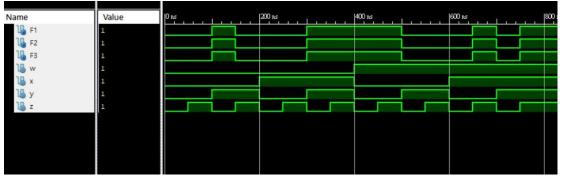
化簡後理論上應該只有兩個最佳解

因此加上另一個組合

證明 wx' y' +wxz+w' xy+w' yz' =w' yz' +xyz+wy' z+wx' y' =

WX' Y' +WY' Z+WXZ+XYZ+W' XY+W' YZ'

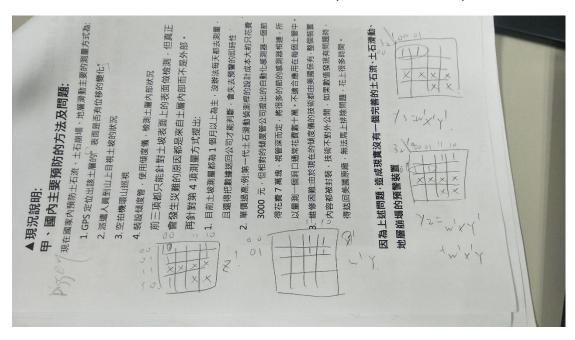




證實化簡(F1)=化簡(F2)=化簡(F3)

第三個實驗

為 9 補數電路實作,利用真值表及卡諾圖化簡(有關 don't care)

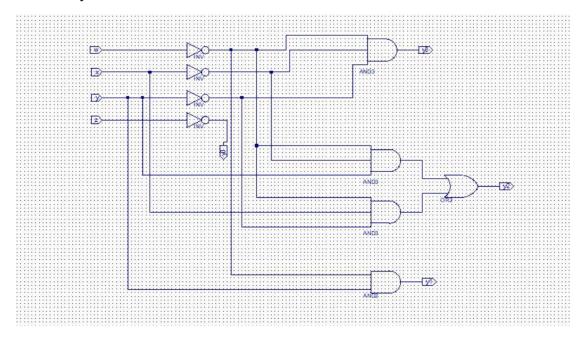


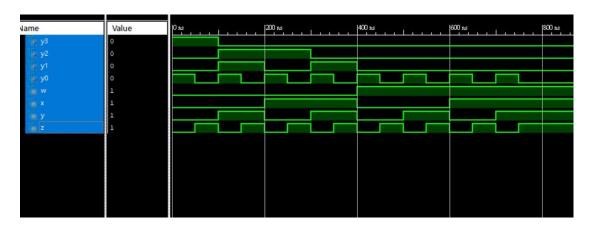
歸納出 y3=w' x' y'

y2=w' xy' + w' x' y

y1=w' y

y0=z' (有利用到 don' t care 原則)





經過檢查後,證實此 F 電路為 Input 9 補數電路