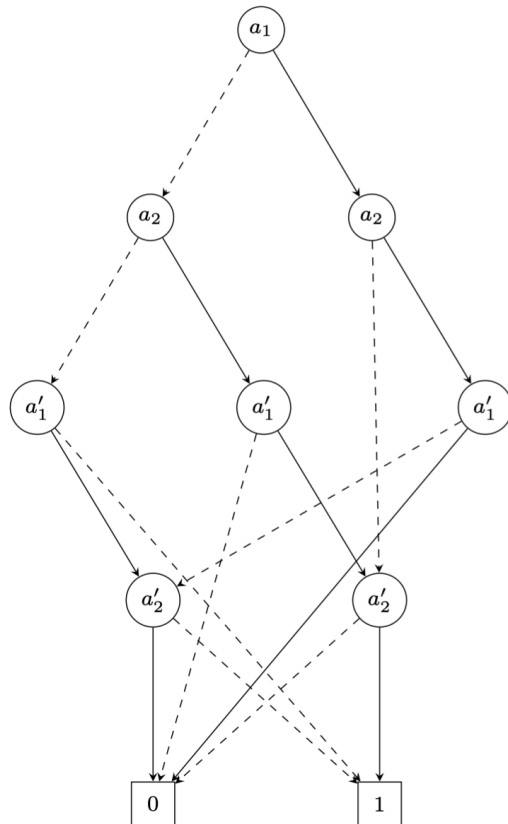


第5次作业

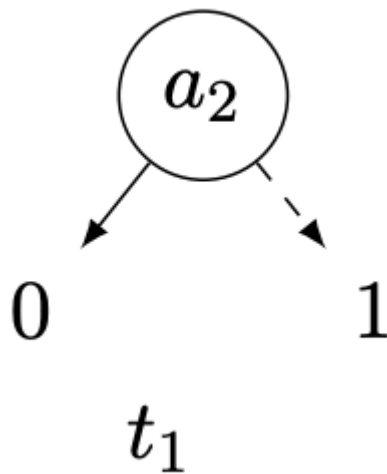
(1)

t2的计算

P1的ROBDD如下所示：

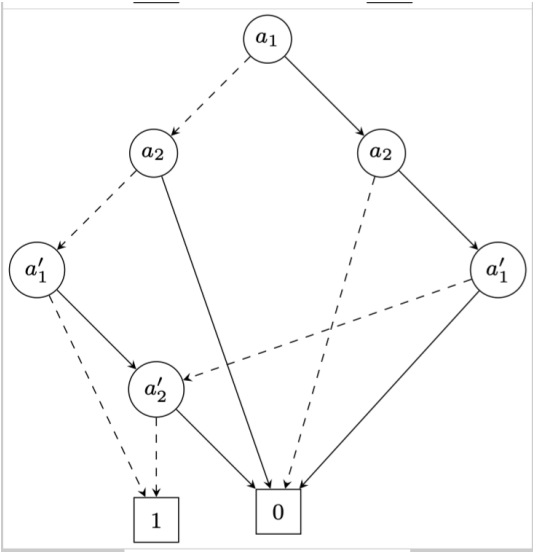


P2的ROBDD就是t1的ROBDD, 将 a_2 修改为 a'_2

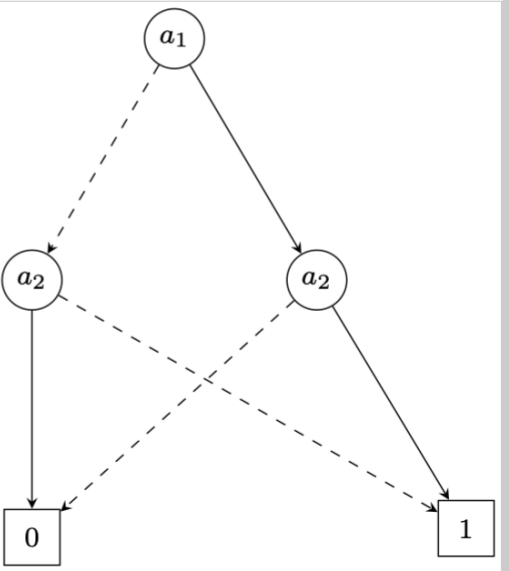


故 $t_2 = \exists a'_1, a'_2 \text{ ROBDD}(P1) \wedge \text{ROBDD}(P2)$

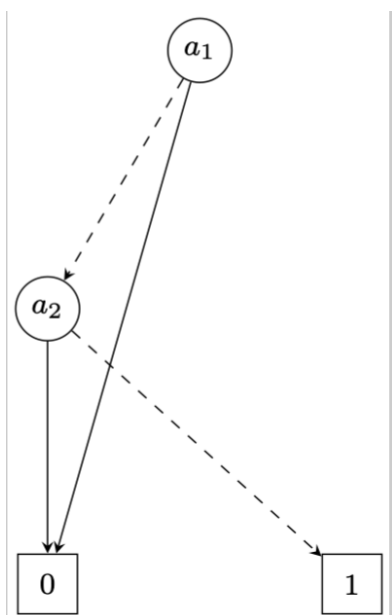
先计算 $\text{ROBDD}(P) = \text{ROBDD}(P1) \wedge \text{ROBDD}(P2)$,所得ROBDD如下



再计算 $\text{ROBDD}(S_{p_e}) = \text{ROBDD}(\exists a'_1 a'_2 P)$



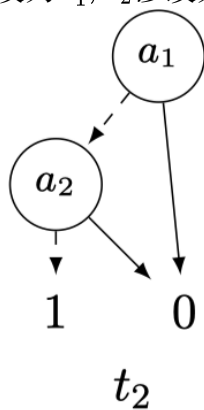
最后再计算 $\text{ROBDD}(S_{p_2 \wedge T})$, 得 t_2



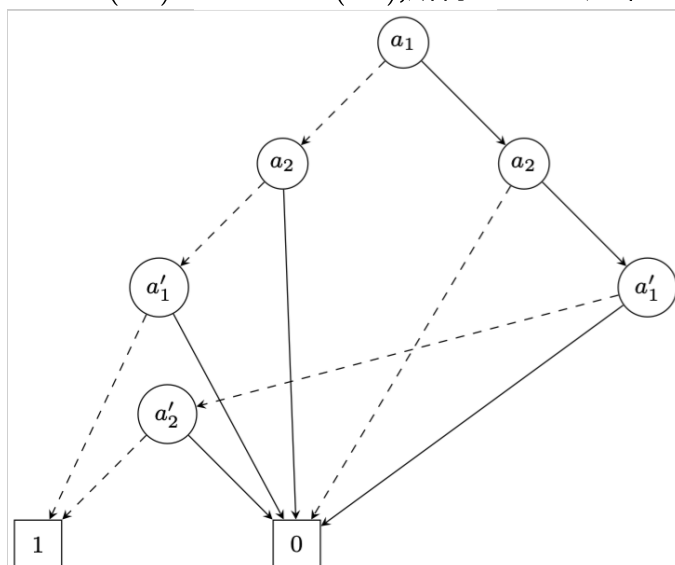
t3的计算

P1的ROBDD不变

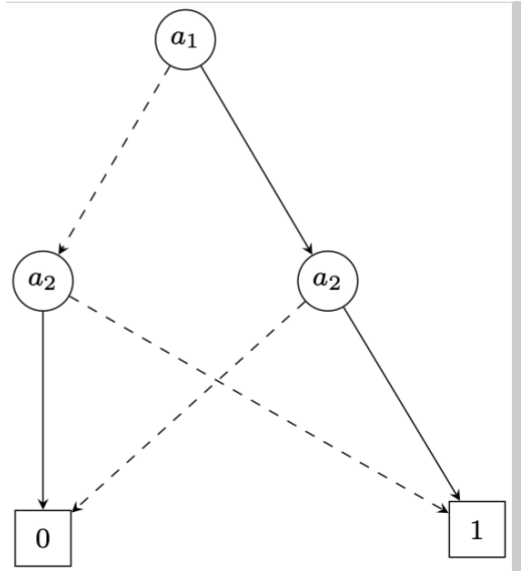
P2的ROBDD就是 t_2 的ROBDD, 将 a_1 修改为 a'_1 , a_2 修改为 a'_2



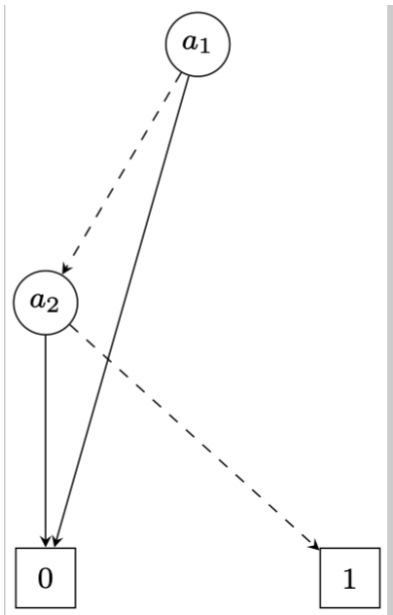
先计算 $ROBDD(P) = ROBDD(P1) \wedge ROBDD(P2)$, 所得ROBDD如下:



再计算 $ROBDD(S_{p_e}) = ROBDD(\exists a'_1 a'_2 P)$, 所得如下



最后再计算 $ROBDD(S_{p_2 \wedge T})$, 得 t_3



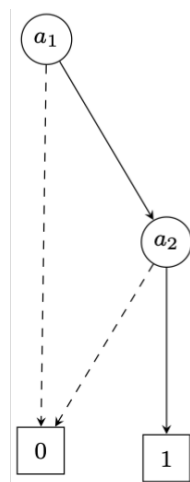
(2) $\mathcal{M}, s_0 \models EGp$

$T = (1, 1)$

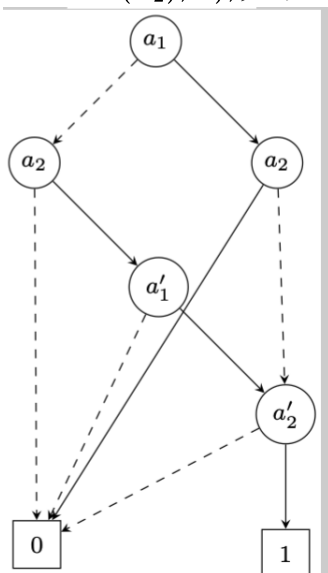
P_1 仍保持不变

计算t1

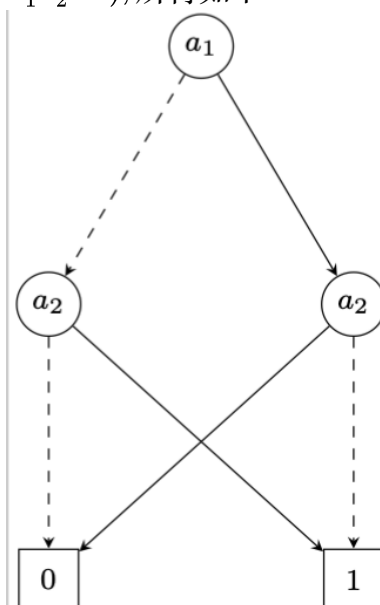
$ROBDD(P_2)$ 如下:



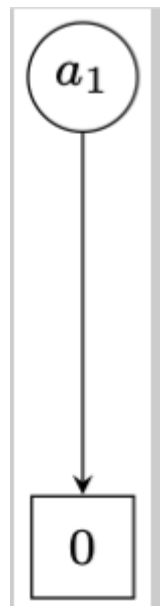
$ROBDD(P) = apply(ROBDD(P_1), ROBDD(P_2), \wedge)$, 如下



再计算 $ROBDD(S_{p_e}) = ROBDD(\exists a'_1 a'_2 P)$, 所得如下



最后再计算 $ROBDD(S_{p_2 \wedge T})$, 得 t_1



所以最终

$$S_{EGp} = \emptyset$$