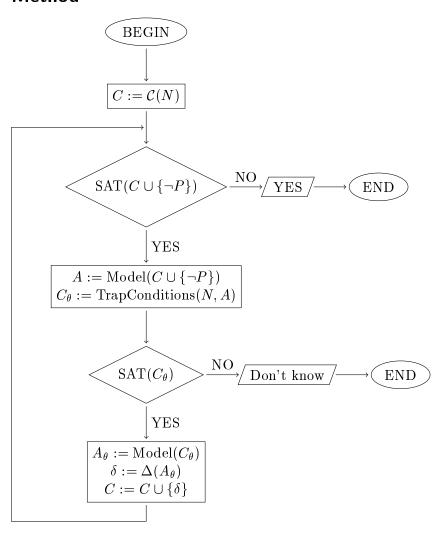
Method



Constraints C_0

$$\delta_1 = p_3 \lor q_2 \lor (m_2 = f) \lor (hold = 1)$$

 $\delta_2 = p_2 \lor q_3 \lor (m_1 = f) \lor (hold = 2)$

$$p_1 = 0$$
 $p_2 = 0$
 $p_3 = 0$
 $p_4 = 1$
 $q_1 = 0$
 $q_2 = 0$
 $q_3 = 0$
 $q_4 = 1$
 $(m_1 = f) = 0$
 $(m_1 = t) = 1$
 $(hold = 1) = 1$
 $(hold = 2) = 0$
 $u_1 = 1$
 $u_2 = 0$
 $u_3 = 1$
 $u_4 = 0$
 $u_5 = 1$
 $u_6 = 0$
 $v_1 = 1$
 $v_2 = 1$
 $v_3 = 0$
 $v_4 = 1$
 $v_5 = 0$
 $v_6 = 0$

 $p_1 = 0$ $p_2 = 0$ $p_3=0$ $p_4 = 1$ $q_1 = 0$ $q_2 = 0$ $q_3 = 0$ $q_4 = 1$ $(m_1 = f) = 0$ $(m_1 = t) = 1$ $(m_2 = f) = 0$ $(m_2 = t) = 1$ (hold = 1) = 0(hold = 2) = 1 $u_1 = 1$ $u_2 = 0$ $u_3 = 1$ $u_4 = 1$ $u_5 = 0$ $u_6 = 0$ $v_1 = 1$ $v_2 = 0$ $v_3 = 1$ $v_4 = 1$ $v_5 = 0$ $v_6 = 0$

$A_{\theta 1}$

$$bp_{1} = 0$$

$$bp_{2} = 0$$

$$bp_{3} = 1$$

$$bp_{4} = 0$$

$$bq_{1} = 0$$

$$bq_{2} = 1$$

$$bq_{4} = 0$$

$$b(m_{1} = f) = 0$$

$$b(m_{1} = t) = 0$$

$$b(m_{2} = f) = 1$$

$$b(m_{2} = t) = 0$$

$$b(hold = 1) = 0$$

$A_{\theta 2}$

$$bp_{1} = 0$$

$$bp_{2} = 1$$

$$bp_{3} = 0$$

$$bp_{4} = 0$$

$$bq_{1} = 0$$

$$bq_{2} = 0$$

$$bq_{3} = 1$$

$$bq_{4} = 0$$

$$b(m_{1} = f) = 1$$

$$b(m_{1} = t) = 0$$

$$b(m_{2} = f) = 0$$

$$b(hold = 1) = 1$$

$$b(hold = 2) = 0$$

 C_{θ}

(1)

$$bp_1 \implies (bp_2 \lor b(m_1 = t))$$

$$bp_2 \implies (bp_3 \lor b(hold = 1)) \land (bp_3 \lor b(hold = 1))$$

$$bp_3 \implies (bp_4 \lor b(m_2 = f)) \land (bp_4 \lor b(hold = 2))$$

$$bp_4 \implies (bp_1 \lor b(m_1 = f))$$

$$bq_1 \implies (bq_2 \lor b(m_2 = t))$$

$$bq_2 \implies (bq_3 \lor b(hold = 2)) \land (bq_3 \lor b(hold = 2))$$

$$bq_3 \implies (bq_4 \lor b(m_1 = f)) \land (bp_4 \lor b(hold = 1))$$

$$bq_4 \implies (bq_1 \lor b(m_2 = f))$$

$$b(m_1 = f) \implies (bp_2 \lor b(m_1 = t)) \land (bq_4 \lor b(m_1 = f))$$

$$b(m_1 = t) \implies (bp_1 \lor b(m_1 = f))$$

$$b(m_2 = f) \implies (bq_2 \lor b(m_2 = t)) \land (bp_4 \lor b(m_2 = f))$$

$$b(m_2 = t) \implies (bq_1 \lor b(m_2 = f))$$

$$b(hold = 1) \implies (bq_3 \lor b(hold = 2)) \land (bq_4 \lor b(hold = 1)) \land (bp_3 \lor b(hold = 1))$$

$$b(hold = 2) \implies (bp_3 \lor b(hold = 1)) \land (bp_4 \lor b(hold = 2)) \land (bq_3 \lor b(hold = 2))$$

(2)

$$bp_1 \lor bq_1 \lor b(m_1 = f) \lor b(m_2 = f) \lor b(hold = 1)$$

 $(3)_1$

$$\neg bp_4 \wedge \neg bq_4 \wedge \neg b(m_1 = t) \wedge \neg b(m_2 = t) \wedge \neg b(hold = 1)$$

 $(3)_2$

$$\neg bp_4 \wedge \neg bq_4 \wedge \neg b(m_1 = t) \wedge \neg b(m_2 = t) \wedge \neg b(hold = 2)$$