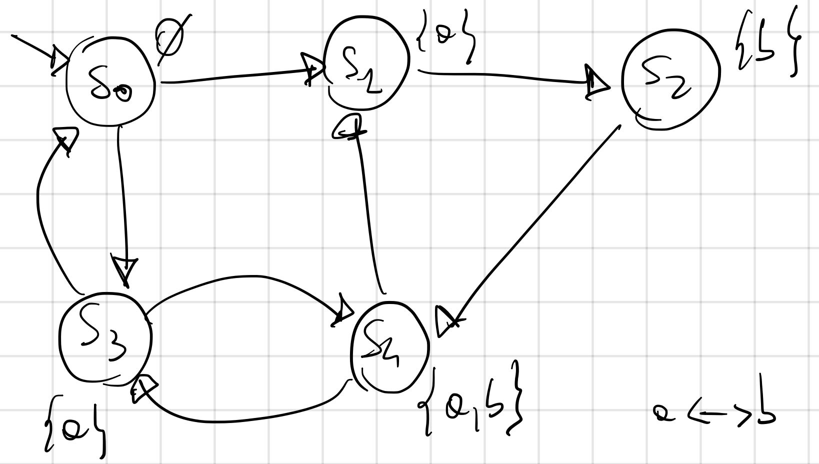


$Sat(a \leftrightarrow b)$

$Sat(\exists (a \vee b) \mathcal{U} (a \wedge b))$

$Sat(\exists \Box (a \vee \neg b))$

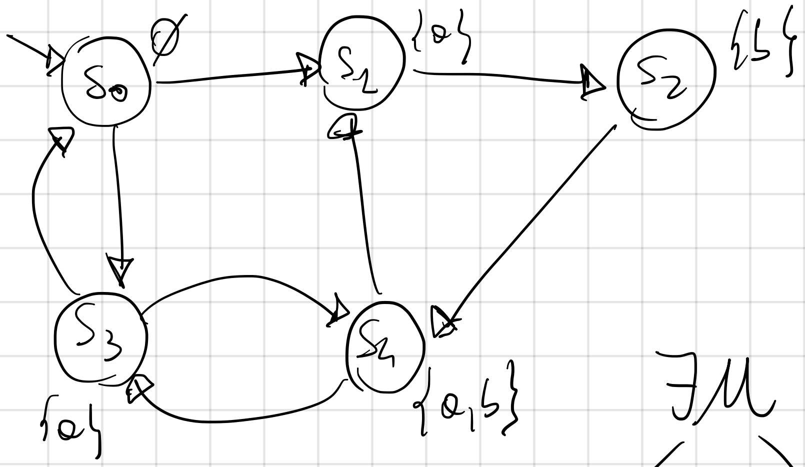
$a \leftrightarrow b \equiv a \rightarrow b \wedge b \rightarrow a \equiv$

$Sat(a \leftrightarrow b) = Sat((\neg a \vee b) \wedge (\neg b \vee a)) \equiv (\neg a \vee b) \wedge (\neg b \vee a)$

$= Sat(\neg a \vee b) \cap Sat(\neg b \vee a) \equiv \left(Sat(\neg a) \cup Sat(b)\right) \cap \left(Sat(\neg b) \cup Sat(a)\right)$

$= \left(\{s_0, s_2\} \cup \{s_2, s_4\}\right) \cap \left(\{s_0, s_1, s_3\} \cup \{s_1, s_3, s_4\}\right) \equiv$

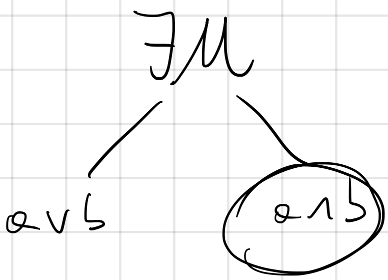
$= \{s_0, s_2, s_4\} \cap \{s_0, s_1, s_3, s_4\} = \{s_0, s_4\}$



$Sat(a \leftrightarrow b)$

$Sat(\exists (a \vee b) \mathcal{U} (a \wedge b))$

$Sat(\exists \Box (a \vee \neg b))$



$Sat(a \vee b) = \{s_1, s_2, s_3, s_4\}$

$Sat(a \wedge b) = \{s_4\}$

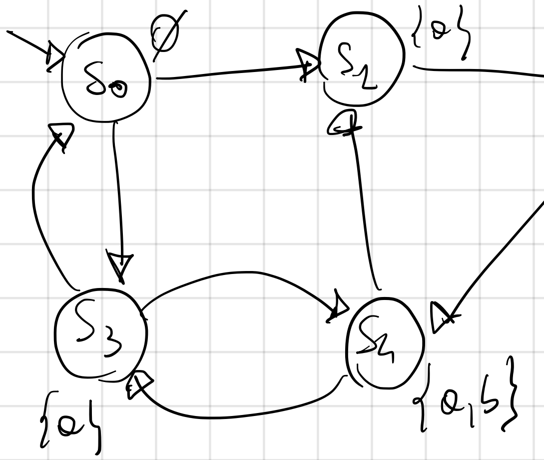
$T^0 = Sat(a \wedge b) = \{s_4\}$

$T^1 = \underset{T_0 \cup}{\wedge}\{ s \in Sat(a \vee b) \mid s' \in Post(s) \wedge s' \in T^0 \} = \{s_4, s_2, s_3\}$

$T^2 = \{s_4, s_2, s_3, s_1\}$

$T^3 = \{s_4, s_2, s_3, s_1\} \Leftarrow$ Minimal fixpoint

$Sat(\exists (a \vee b) \mathcal{U} (a \wedge b)) = \{s_4, s_2, s_3, s_1\}$



$Sat(a \leftrightarrow b)$

$Sat(\exists (a \vee b) \, \mathcal{U} \, (a \wedge b))$

$Sat(\exists \Box (\underline{a \vee \neg b}))$

$Sat(a \vee \neg b) = \{s_0, s_1, s_3, s_4\}$

$T^0 = \{s_0, s_1, s_3, s_4\}$

$T^1 = T^0 \setminus \{ s \in T_0 \mid \forall s' \;\; s' \in Post(s) \rightarrow s' \notin T^0 \} =$

$\{s_0, s_3, s_4\}$

$Sat(\exists \Box (a \vee \neg b)) = \{s_0, s_3, s_4\}$

$T^2 = \{s_0, s_3, s_4\} \Leftarrow$ greatest fixpoint