



$\text{sat}(E_{c_1})$

$$\text{nat}(c_1) = \{S_3, S_7\}$$

- $X := \text{sat}(c_1) = \{S_3, S_7\}$
- $Y := \text{me}_\exists(X) = \{S_1, S_3, S_4\}$

$$\text{sat}(E_{c_1}) = \{S_1, S_3, S_4\}$$

$\text{nat}(E_{\underbrace{\tau c_2}_F \cup \underbrace{c_1}_G})$

$$\text{nat}(c_1) = \{S_3, S_7\}$$

$$\text{nat}(c_2) = \{S_6, S_8\}$$

$$\text{nat}(\tau c_2) = \{S_0, S_1, S_2, S_3, S_4, S_5, S_7\}$$

- $W = \text{nat}(\tau c_2) = \{S_0, S_1, S_2, S_3, S_4, S_5, S_7\}$
- $X = S = \{S_0, \dots, S_8\}$
- $Y = \text{nat}(c_1) = \{S_3, S_7\}$

$$X := Y = \{S_3, S_7\}$$

$$Y := Y \cup (W \cap \text{me}_\exists(Y)) = \{A_1, A_3, A_4, A_7\}$$

$$\begin{cases} \text{me}_\exists(Y) = \{S_1, S_3, S_4\} \\ W \cap \text{me}_\exists(Y) = \{S_1, S_3, S_4\} \end{cases}$$

$$X := \{A_1, A_3, A_4, A_7\}$$

$$Y := Y \cup (W \cap \text{me}_\exists(Y)) = \{A_1, A_3, A_4, A_0, A_7\}$$

$$\text{me}_\exists(Y) = \{A_1, A_3, A_4, S_0, S_8\}$$

$$W \cap \text{me}_\exists(Y) = \{S_1, S_3, S_4, S_0\}$$

$$X := \{A_1, A_3, A_4, A_0, A_7\}$$

$$Y := Y \cup (W \cap \text{me}_\exists(Y)) = \{A_1, A_3, A_4, A_0, A_7\}$$

$$\text{me}_\exists(Y) = \{A_1, A_3, A_4, A_0, A_8, A_6\}$$

$$W \cap \text{me}_\exists(Y) = \{A_1, A_3, A_4, A_0\}$$

$X=Y$, fixpoint reached.

$$\text{nat}(E_{\tau c_2 \cup c_1}) = \{A_0, A_1, A_3, A_4, A_7\}$$