

Règles du While en Sémantique Op.Structurelle

$$(x := a, \sigma) \Rightarrow \sigma[x \mapsto \mathcal{A}[a]\sigma]$$

$$(\text{skip}, \sigma) \Rightarrow \sigma$$

$$\frac{(S_1, \sigma) \Rightarrow \sigma'}{((S_1; S_2), \sigma) \Rightarrow (S_2, \sigma)} \quad \frac{(S_1, \sigma) \Rightarrow (S'_1, \sigma')}{((S_1; S_2), \sigma) \Rightarrow (S'_1; S_2, \sigma')}$$

$$\mathcal{B}[b]\sigma = ff : (\text{if } b \text{ then } S_1 \text{ else } S_2, \sigma) \Rightarrow (S_2, \sigma)$$

$$\mathcal{B}[b]\sigma = tt : (\text{if } b \text{ then } S_1 \text{ else } S_2, \sigma) \Rightarrow (S_1, \sigma)$$

$$(\text{while } b \text{ do } S, \sigma) \Rightarrow$$

$$(\text{if } b \text{ then } (S; \text{while } b \text{ do } S) \text{ else skip}, \sigma)$$