

Transitioner er på formen: $env_V, env_P \vdash \langle S, sto \rangle \rightarrow sto'$

[SWITCH-1]

$$\frac{env_V, env_P \vdash \langle S, sto \rangle \rightarrow (sto')}{env_V, env_P \vdash \langle \text{switch}(a) \text{ begin case } a_1 : S_1 \text{ break; default : } S \text{ break; end, } sto \rangle \rightarrow sto'}$$

Where $k > 0$

and $env_V, sto \vdash a \rightarrow_a v$

and $env_V, sto \vdash a_1 \rightarrow_a v_1$

and $v \neq v_1$

[SWITCH-2]

$$\frac{env_V, env_P \vdash \langle S_1, sto \rangle \rightarrow sto'}{env_V, env_P \vdash \langle \text{switch}(a) \text{ begin case } a_1 : S_1 \text{ break; } \dots \text{ case } a_k : S_k \text{ break; default : } S \text{ break; end, } sto \rangle \rightarrow sto'}$$

Where $k > 1$

and $env_V, sto \vdash a \rightarrow_a v$

and $env_V, sto \vdash a_1 \rightarrow_a v_1$

and $v = v_1$

[SWITCH-3]

$$\frac{env_V, env_P \vdash \langle \text{switch}(a) \text{ begin case } a_2 : S_2 \text{ break; } \dots \text{ case } a_k : S_k \text{ break; default : } S \text{ break; end, } sto \rangle \rightarrow sto'}{env_V, env_P \vdash \langle \text{switch}(a) \text{ begin case } a_1 : S_1 \text{ break; } \dots \text{ case } a_k : S_k \text{ break; default : } S \text{ break; end, } sto \rangle \rightarrow sto'}$$

Where $k > 1$

and $env_V, sto \vdash a \rightarrow_a v$

and $env_V, sto \vdash a_1 \rightarrow_a v_1$

and $v \neq v_1$

Table 0.1: Statements