Sémantique TD4

9 avril 2018

2   Théorèmes simples

$$\frac{\begin{array}{c} \text{OK} \end{array}}{\{true\}x := x+1\{true\}} \qquad \{\text{ true } \wedge x < 0$$

$$\frac{}{\{\text{ true } \wedge x < 0\}x := x+1\{true\}}$$

$$\frac{\text{true } \rightarrow 5 = 5 \qquad \{5=5\}x := 5\{x=5\}}{\{true\}x := 5\{x=5\}} \qquad \frac{x = 5 \rightarrow \text{ true} \qquad \frac{\{true\}x < 0 \text{ do } x := x+1\{ \text{ true } \wedge \neg x}{\{x=5\} \text{ while } x < 0 \text{ do } x := x+1\{x \geqslant 0\}}}{}$$

$$\frac{}{\{true\}x := 5; \text{ while } x < 0 \text{ do } x := x+1\{x \geqslant 0\}}$$