$$\mathscr{D}s_6 \quad \dfrac{\overset{\mathscr{E}s_1}{\vdash\ 3:int}}{\vdash var\ x:int=3 : \underbrace{[x\leftarrow intloc]}_{\triangle}}$$

$$\mathscr{E}s_5 \quad \dfrac{\overset{\mathscr{E}s_3}{\triangle\vdash\ x:int}\qquad \overset{\mathscr{E}s_1}{\triangle\vdash 1:int}}{\triangle\vdash x+1:int}\ \triangle(x)=intloc$$

$$\mathscr{C}s_1 \quad \dfrac{\triangle\vdash x+1:int}{\triangle\vdash x:=x+1}\ \triangle(x)=int\ loc$$

$$\mathscr{C}s_6 \quad \dfrac{\vdash var\ x:int=3 : \triangle \qquad \triangle\vdash\ x:=x+1}{\vdash var\ x:int=3;x:=x+1}\ \triangle:\{x\}$$