Fig. 6.5 on page 219

$$\frac{x : \mathrm{var}\,\tau \in \Gamma}{\Gamma \rhd \mathtt{x} : \mathrm{var}\,\tau}\ \mathrm{Id} \qquad \frac{\Gamma \rhd \mathtt{x} : \mathrm{var}\,\tau \quad \tau \leq \tau'}{\Gamma \rhd \mathtt{x} : \tau'}\ \mathrm{SubI}$$

$$\frac{}{\Gamma \rhd \mathtt{true} : \mathtt{L}}\ \mathrm{Tr} \qquad \frac{\Gamma \rhd \mathtt{e1} : \tau_1 \quad \Gamma \rhd \mathtt{e2} : \tau_2}{\Gamma \rhd \mathtt{e1\ +\ e2} : \tau_1 \vee \tau_2}\ \mathrm{Add}$$

$$\frac{\Gamma \rhd \mathtt{e1} : \tau_1 \quad \Gamma \rhd \mathtt{e2} : \tau_2}{\Gamma \rhd \mathtt{e1\ -\ e2} : \tau_1 \vee \tau_2}\ \mathrm{Sub} \qquad \frac{\Gamma \rhd \mathtt{e1} : \tau_1 \quad \Gamma \rhd \mathtt{e2} : \tau_2}{\Gamma \rhd \mathtt{e1\ ==\ e2} : \tau_1 \vee \tau_2}\ \mathrm{Eq}$$

$$\frac{\Gamma \rhd \mathtt{e} : \tau}{\Gamma \rhd \mathtt{!e} : \tau}\ \mathrm{Neg} \qquad \frac{\Gamma \rhd \mathtt{e1} : \tau_1 \quad \Gamma \rhd \mathtt{e2} : \tau_2}{\Gamma \rhd \mathtt{e1\ <\ e2} : \tau_1 \vee \tau_2}\ \mathrm{LT}$$

$$\frac{\Gamma \rhd \mathtt{x} : \mathrm{var}\,\tau, \quad \Gamma \rhd \mathtt{e} : \tau, \quad \tau' \leq \tau}{\Gamma \rhd \mathtt{x\ =\ e} : \mathrm{com}\,\tau'}\ \mathrm{Ass} \qquad \frac{\Gamma \rhd \mathtt{c1} : \sigma \quad \Gamma \rhd \mathtt{c2} : \sigma}{\Gamma \rhd \mathtt{c1;\ c2} : \sigma}\ \mathrm{Seq}$$

$$\frac{}{\Gamma \rhd \mathtt{n} : \mathtt{L}}\ \mathrm{Lit} \qquad \frac{\Gamma \rhd \mathtt{e} : \tau, \ \Gamma \rhd \mathtt{c1} : \mathrm{com}\,\tau, \ \Gamma \rhd \mathtt{c2} : \mathrm{com}\,\tau, \ \tau' \leq \tau}{\Gamma \rhd \mathtt{if\ (e)\ \{c1\}\ else\ \{c2\}} : \mathrm{com}\,\tau'}\ \mathrm{If}$$

$$\frac{\Gamma \rhd \mathtt{e} : \tau, \quad \Gamma \rhd \mathtt{c} : \mathrm{com}\,\tau, \quad \tau' \leq \tau}{\Gamma \rhd \mathtt{while\ e\ \{c\}} : \mathrm{com}\,\tau'}\ \mathrm{Wh} \qquad \frac{\Gamma \rhd \mathtt{e} : \tau \quad \Gamma[x : \mathrm{var}\,\tau] \rhd \mathtt{c} : \mathrm{com}\,\tau'}{\Gamma \rhd \mathtt{letvar\ x\ =\ e\ in\ \{c\}} : \mathrm{com}\,\tau'}\ \mathrm{Let}$$