

$$\mathbb{C}[(\text{gen-spec } \mathbb{S})] \longrightarrow \mathbb{C}[\text{gen-spec}^*\text{-hof}[\mathbb{S}]] \quad [\text{gen-spec}]$$

$$\mathbb{C}[(\text{assert-spec } V \text{ (FSpec } (\mathbb{S}_a \dots) \mathbb{S}_r)) \longrightarrow \mathbb{C}[(\text{assert-spec } V \text{ (FSpec } (\mathbb{S}_a \dots) \mathbb{S}_r \text{ generations}))] \quad [\text{assert-fspec-init}]$$

$$\begin{aligned} \mathbb{C}[(\text{assert-spec } f \text{ (FSpec } (\mathbb{S}_a \dots) \mathbb{S}_r 0))] &\longrightarrow \mathbb{C}[f] & [\text{assert-fspec-stop}] \\ \text{where } f &= (\text{fn } [X \dots] E) \end{aligned}$$

$$\begin{aligned} \mathbb{C}[(\text{assert-spec } f \text{ (FSpec } (\mathbb{S}_a \dots) \mathbb{S}_r Z))] &\longrightarrow \mathbb{C}[(\text{do } (\text{assert-spec } (f \text{ (gen-spec } \mathbb{S}_a \dots) \mathbb{S}_r) \\ &\quad (\text{assert-spec } f \text{ (FSpec } (\mathbb{S}_a \dots) \mathbb{S}_r \text{ (sub1 } Z))))] & [\text{assert-fspec-gen}] \\ \text{where } (< 0 Z), f &= (\text{fn } [X \dots] E) \end{aligned}$$

$$\begin{aligned} \mathbb{C}[(\text{assert-spec } f \text{ (FSpec } (\mathbb{S}_a \dots) \mathbb{S}_r Z))] &\longrightarrow \mathbb{C}[(\text{do } (\text{assert-spec } (f \text{ (gen-spec } \mathbb{S}_a \dots) \mathbb{S}_r) \\ &\quad (\text{assert-spec } f \text{ (FSpec } (\mathbb{S}_a \dots) \mathbb{S}_r \text{ (sub1 } Z))))] & [\text{assert-rec-fspec-gen}] \\ \text{where } (< 0 Z), f &= (\text{fn nme } [X \dots] E) \end{aligned}$$

$$\begin{aligned} \mathbb{C}[(\text{assert-spec NONFNV} &\longrightarrow (\text{error spec-error} & [\text{assert-fspec-nonf}] \\ \text{(FSpec } (\mathbb{S}_a \dots) \mathbb{S}_r Z))] &\quad (\text{nonf-spec-error-msg NONFNV})) \end{aligned}$$