

Small-step evaluation rules for L23 (corrected)

Please note: The greater-than rule with the box around it has been corrected. It used to include a less-than symbol, erroneously.

$$\frac{t_1 \rightarrow t_1'}{St_1 \rightarrow St_1'} \quad \boxed{\text{PZ} \rightarrow \text{Z}} \quad \boxed{\text{PSnv}_1 \rightarrow nv_1} \quad \frac{t_1 \rightarrow t_1'}{\text{Pt}_1 \rightarrow \text{Pt}_1'}$$

$$\boxed{\text{Z} + t_2 \rightarrow t_2} \quad \boxed{\text{S}nv_1 + t_2 \rightarrow [nv_1 + St_2]} \quad \boxed{\frac{t_1 \rightarrow t_1'}{[t_1 + t_2] \rightarrow [t_1' + t_2]}}$$

$$\boxed{\text{Z} - nv_2 \rightarrow \text{Z}} \quad \boxed{[nv_1 - \text{Z}] \rightarrow nv_1} \quad \boxed{\text{S}nv_1 - \text{S}nv_2 \rightarrow [nv_1 - nv_2]}$$

$$\boxed{\frac{t_1 \rightarrow t_1'}{[t_1 - t_2] \rightarrow [t_1' - t_2]}} \quad \boxed{\frac{t_2 \rightarrow t_2'}{[v_1 - t_2] \rightarrow [v_1 - t_2']}}$$

$$\boxed{\text{Z} < \text{Z} \rightarrow \text{F}} \quad \boxed{\text{Z} < \text{S}nv_2 \rightarrow \text{I}} \quad \boxed{[nv_1 < \text{Z}] \rightarrow \text{F}} \quad \boxed{\text{S}nv_1 < \text{S}nv_2 \rightarrow [nv_1 < nv_2]}$$

$$\boxed{\frac{t_1 \rightarrow t_1'}{[t_1 < t_2] \rightarrow [t_1' < t_2]}} \quad \boxed{\frac{t_2 \rightarrow t_2'}{[v_1 < t_2] \rightarrow [v_1 < t_2']}}$$

$$\boxed{\text{Z} > nv_2 \rightarrow \text{F}} \quad \boxed{\text{S}nv_1 > \text{Z} \rightarrow \text{I}} \quad \boxed{\boxed{\text{S}nv_1 > \text{S}nv_2 \rightarrow [nv_1 > nv_2]}}$$

$$\boxed{\frac{t_1 \rightarrow t_1'}{[t_1 > t_2] \rightarrow [t_1' > t_2]}} \quad \boxed{\frac{t_2 \rightarrow t_2'}{[v_1 > t_2] \rightarrow [v_1 > t_2']}}$$

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$$\boxed{\text{I} \&\& t_2 \rightarrow t_2} \quad \boxed{\text{F} \&\& t_2 \rightarrow \text{F}} \quad \boxed{\frac{t_1 \rightarrow t_1'}{[t_1 \&\& t_2] \rightarrow [t_1' \&\& t_2]}}$$

$$\boxed{\text{I} || t_2 \rightarrow \text{I}} \quad \boxed{\text{F} || t_2 \rightarrow t_2} \quad \boxed{\frac{t_1 \rightarrow t_1'}{[t_1 || t_2] \rightarrow [t_1' || t_2]}}$$

$$\boxed{\text{I} ? t_2 : t_3 \rightarrow t_2} \quad \boxed{\text{F} ? t_2 : t_3 \rightarrow t_3} \quad \boxed{\frac{t_1 \rightarrow t_1'}{[t_1 ? t_2 : t_3] \rightarrow [t_1' ? t_2 : t_3]}}$$