

SOS di letrec in Scheme

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Regola (letrec):

$$\begin{aligned}\rho &= \emptyset[x_1, ?][x_2, ?] \dots [x_n, ?] \\ n' &= Next(\zeta_0) \\ \zeta'_1 &= \zeta_0 [n', < n, \rho >] \\ \{ \zeta'_i, n' \vdash \mathbf{e}_i \rightarrow_\varepsilon v_i, \zeta''_{i+1}; \\ &< n, \rho_i > = \zeta''_{i+1}(n'); \\ \zeta'_{i+1} &= \zeta''_{i+1} [n', < n, \rho_i [x_i, v_i] >] \}_{(1 \leq i \leq n)} \\ \zeta'_{n+1}, n' \vdash \mathbf{e}_0 &\rightarrow_\varepsilon v, \zeta_f\end{aligned}$$

$$\zeta_0, n \vdash (\text{letrec } ((\mathbf{x}_1 \mathbf{e}_1) (\mathbf{x}_2 \mathbf{e}_2) \dots (\mathbf{x}_n \mathbf{e}_n)) \mathbf{e}_0) \rightarrow_\varepsilon v, \zeta_f$$