

t36_cqc_the1 (TMUGAGFkgLcLq- zoUwwF5x4xo5cNRkQNuY2A)

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Let $m1_qc_lang1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k3_cqc_lang : \iota \Rightarrow \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $k1_cqc_the1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_cqc_the1 : \iota$ be given. Let $r2_cqc_the1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_cqc_the1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.(m1_qc_lang1 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 \\
 & \quad (k3_cqc_lang X0))) \Rightarrow (ReplSep (toset (\lambda X2 : \iota.m2_subset_1 \\
 & \quad \quad X2 (k9_qc_lang1 X0) (k3_cqc_lang X0))) (\lambda X2 : \iota.\exists X3. \\
 & \quad (m2_finseq_1 X3 (k2_zfmisc_1 (k3_cqc_lang X0) k2_cqc_the1))) \wedge \\
 & \quad ((r2_cqc_the1 X0 X1 X3) \wedge (k3_cqc_the1 X0 X3 = X2))) (\lambda X2 : \iota. \\
 & \quad \quad X2) = k1_cqc_the1 X0 X1)) \tag{1}
 \end{aligned}$$

Theorem 1

$$\begin{aligned}
 & \forall X0.(m1_qc_lang1 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 \\
 & \quad (k3_cqc_lang X0))) \Rightarrow (\forall X2.(m2_subset_1 X2 (k9_qc_lang1 \\
 & X0) (k3_cqc_lang X0)) \Rightarrow ((X2 \in k1_cqc_the1 X0 X1) \Leftrightarrow (\exists X3.(m2_finseq_1 \\
 & \quad X3 (k2_zfmisc_1 (k3_cqc_lang X0) k2_cqc_the1))) \wedge ((r2_cqc_the1 \\
 & \quad \quad X0 X1 X3) \wedge (k3_cqc_the1 X0 X3 = X2))))))
 \end{aligned}$$