

t10_filter_2

(TMdn9tB7hUG58eSTXoNCzm9DgzHjeWMA1s4)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v10_lattices : \iota \Rightarrow o$ be given. Let $v14_lattices : \iota \Rightarrow o$ be given. Let $l3_lattices : \iota \Rightarrow o$ be given. Let $g3_lattices : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $u2_lattices : \iota \Rightarrow \iota$ be given. Let $u1_lattices : \iota \Rightarrow \iota$ be given. Let $k6_lattices : \iota \Rightarrow \iota$ be given. Let $k1_lattice2 : \iota \Rightarrow \iota$ be given. Let $k5_lattices : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(l3_lattices\ X0) \Rightarrow (\forall X1.(l3_lattices\ X1) \Rightarrow ((\\ g3_lattices\ (u1_struct_0\ X0)\ (u2_lattices\ X0)\ (u1_lattices\ X0) = \\ g3_lattices\ (u1_struct_0\ X1)\ (u2_lattices\ X1)\ (u1_lattices\ X1)) \Rightarrow \\ (k1_lattice2\ X0 = k1_lattice2\ X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.((\neg v2_struct_0\ X0) \wedge ((v10_lattices\ X0) \wedge ((v14_lattices \\ X0) \wedge (l3_lattices\ X0)))) \Rightarrow (k6_lattices\ X0 = k5_lattices\ (k1_lattice2 \\ X0)) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0.((\neg v2_struct_0\ X0) \wedge ((v10_lattices\ X0) \wedge ((v14_lattices \\ X0) \wedge (l3_lattices\ X0)))) \Rightarrow (\forall X1.((\neg v2_struct_0\ X1) \wedge ((v10_lattices \\ X1) \wedge ((v14_lattices\ X1) \wedge (l3_lattices\ X1)))) \Rightarrow ((g3_lattices\ (\\ u1_struct_0\ X0)\ (u2_lattices\ X0)\ (u1_lattices\ X0) = g3_lattices \\ (u1_struct_0\ X1)\ (u2_lattices\ X1)\ (u1_lattices\ X1)) \Rightarrow (k6_lattices \\ X0 = k6_lattices\ X1))) \end{aligned}$$