

t63_lattice2

(TMNc9giFJ9gKg5DKLuqcGZMuhBhCHaD5EZ1)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v10_lattices : \iota \Rightarrow o$ be given. Let $v11_lattices : \iota \Rightarrow o$ be given. Let $v13_lattices : \iota \Rightarrow o$ be given. Let $l3_lattices : \iota \Rightarrow o$ be given. Let $r6_binop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $u1_lattices : \iota \Rightarrow \iota$ be given. Let $u2_lattices : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v2_struct_0 X0) \wedge ((v10_lattices X0) \wedge (l3_lattices \\ &X0))) \Rightarrow (((\neg v2_struct_0 X0) \wedge (v10_lattices X0) \wedge (v11_lattices \\ &X0) \wedge (l3_lattices X0))) \Rightarrow (r6_binop_1 (u1_struct_0 X0) (u1_lattices \\ &X0) (u2_lattices X0))) \end{aligned} \quad (1)$$

Theorem 1

$$\begin{aligned} \forall X0. (&(\neg v2_struct_0 X0) \wedge ((v10_lattices X0) \wedge (v11_lattices \\ &X0) \wedge (v13_lattices X0) \wedge (l3_lattices X0)))) \Rightarrow (r6_binop_1 (u1_struct_0 \\ &X0) (u1_lattices X0) (u2_lattices X0)) \end{aligned}$$