

t10_parsp_2

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v2_parsp_1 : \iota \Rightarrow o$ be given. Let $v1_parsp_2 : \iota \Rightarrow o$ be given. Let $l1_parsp_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $r1_parsp_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_parsp_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_parsp_1 X0) \wedge (l1_parsp_1 \\
 & X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. \\
 & (m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 \\
 & (u1_struct_0 X0)) \Rightarrow ((r1_parsp_1 X0 X1 X2 X1 X3) \Rightarrow ((r1_parsp_1 X0 \\
 & X1 X3 X1 X2) \wedge ((r1_parsp_1 X0 X2 X1 X1 X3) \wedge ((r1_parsp_1 X0 X1 X2 X3 X1) \wedge \\
 & ((r1_parsp_1 X0 X1 X3 X2 X1) \wedge ((r1_parsp_1 X0 X2 X1 X3 X1) \wedge ((r1_parsp_1 \\
 & X0 X3 X1 X1 X2) \wedge ((r1_parsp_1 X0 X3 X1 X2 X1) \wedge ((r1_parsp_1 X0 X2 X1 X2 \\
 & X3) \wedge ((r1_parsp_1 X0 X1 X2 X2 X3) \wedge ((r1_parsp_1 X0 X2 X1 X3 X2) \wedge ((r1_parsp_1 \\
 & X0 X2 X3 X2 X1) \wedge ((r1_parsp_1 X0 X1 X2 X3 X2) \wedge ((r1_parsp_1 X0 X3 X2 X2 \\
 & X1) \wedge ((r1_parsp_1 X0 X2 X3 X1 X2) \wedge ((r1_parsp_1 X0 X3 X2 X1 X2) \wedge ((r1_parsp_1 \\
 & X0 X3 X1 X3 X2) \wedge ((r1_parsp_1 X0 X1 X3 X3 X2) \wedge ((r1_parsp_1 X0 X3 X1 X2 \\
 & X3) \wedge ((r1_parsp_1 X0 X1 X3 X2 X3) \wedge ((r1_parsp_1 X0 X3 X2 X3 X1) \wedge ((r1_parsp_1 \\
 & X0 X2 X3 X3 X1) \wedge ((r1_parsp_1 X0 X3 X2 X1 X3) \wedge (r1_parsp_1 X0 X2 X3 X1 \\
 & X3))))))))))))))))))))))
 \end{aligned}$$

(1)

Assume the following.

$$\begin{aligned}
 & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_parsp_1 X0) \wedge ((v1_parsp_2 \\
 & X0) \wedge (l1_parsp_1 X0)))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 \\
 & X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (\forall X3. \\
 & (m1_subset_1 X3 (u1_struct_0 X0)) \Rightarrow ((r1_parsp_2 X0 X1 X2 X3) \Leftrightarrow (r1_parsp_1 \\
 & X0 X1 X2 X1 X3))))
 \end{aligned}$$

(2)

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_parsp_1 X0) \wedge ((v1_parsp_2 \\ & X0) \wedge (l1_parsp_1 X0)))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 \\ & X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (\forall X3. \\ & (m1_subset_1 X3 (u1_struct_0 X0)) \Rightarrow ((r1_parsp_2 X0 X1 X2 X3) \Rightarrow ((\\ & r1_parsp_2 X0 X1 X3 X2) \wedge ((r1_parsp_2 X0 X3 X2 X1) \wedge ((r1_parsp_2 X0 \\ & X2 X1 X3) \wedge ((r1_parsp_2 X0 X2 X3 X1) \wedge (r1_parsp_2 X0 X3 X1 X2)))))))))) \end{aligned}$$