

t18_parsp_1
(TMSF9yzGNKSZeQfCqed5Yg5aYqhoQZPHfoD)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v2_parsp_1 : \iota \Rightarrow o$ 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 $r1_parsp_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge (l1_parsp_1 X0)) \Rightarrow ((v2_parsp_1 \\
& \quad X0) \Leftrightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. \\
& \quad (m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 \\
& \quad (u1_struct_0 X0)) \Rightarrow (\forall X4.(m1_subset_1 X4 (u1_struct_0 X0)) \Rightarrow \\
& \quad (\forall X5.(m1_subset_1 X5 (u1_struct_0 X0)) \Rightarrow (\forall X6.(m1_subset_1 \\
& \quad X6 (u1_struct_0 X0)) \Rightarrow (\forall X7.(m1_subset_1 X7 (u1_struct_0 \\
& \quad X0)) \Rightarrow (\forall X8.(m1_subset_1 X8 (u1_struct_0 X0)) \Rightarrow ((r1_parsp_1 \\
& \quad X0 X1 X2 X2 X1) \wedge ((r1_parsp_1 X0 X1 X2 X3 X3) \wedge ((\neg (r1_parsp_1 X0 X1 X2 \\
& \quad X5 X6) \wedge ((r1_parsp_1 X0 X1 X2 X7 X8) \wedge ((\neg r1_parsp_1 X0 X5 X6 X7 X8) \wedge \\
& \quad (X1 \neq X2)))))) \wedge (((r1_parsp_1 X0 X1 X2 X1 X3) \Rightarrow (r1_parsp_1 X0 X2 X1 X2 \\
& \quad X3)) \wedge (\exists X9.(m1_subset_1 X9 (u1_struct_0 X0)) \wedge ((r1_parsp_1 \\
& \quad X0 X1 X2 X3 X9) \wedge (r1_parsp_1 X0 X1 X3 X2 X9))))))))))))) \\
& \hspace{15em} (1)
\end{aligned}$$

Theorem 1

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