

t3_net_1

(TMdMWHw8dyGQun1NpACqGJXDnTNdYTSAgSc)

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Let $l1_petri : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u4_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k2_net_1 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X0 X1) \Rightarrow ((v1_xboole_0 X1) \vee (X0 \in X1)) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(X2 = k2_xboole_0 X0 X1) \Leftrightarrow (\forall X3.(X3 \in X2) \Leftrightarrow ((X3 \in X0) \vee (X3 \in X1))) \quad (4)$$

Assume the following.

$$\forall X0.(l1_petri X0) \Rightarrow (k2_net_1 X0 = k2_xboole_0 (u1_struct_0 X0) (u4_struct_0 X0)) \quad (5)$$

Theorem 1

$$\forall X0.\forall X1.(l1_petri X1) \Rightarrow ((m1_subset_1 X0 (u4_struct_0 X1)) \Rightarrow ((u4_struct_0 X1 = k1_xboole_0) \vee (m1_subset_1 X0 (k2_net_1 X1))))$$