t13_petri (TMJXpx2xUS81SN7TM8mt7zmQczbuumcF7gU)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v11\_struct\_0 : \iota \Rightarrow o$ be given. Let $v2\_petri : \iota \Rightarrow o$ be given. Let $v3\_petri : \iota \Rightarrow o$ be given. Let $l1\_petri : \iota \Rightarrow o$ be given. Let $k11\_petri : \iota \Rightarrow \iota$ be given. Let $g1\_petri : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $u4\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $u1\_petri : \iota \Rightarrow \iota$ be given. Let $u2\_petri : \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_relat\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v1\_petri : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1))) \Rightarrow (k3\_relset\_1\ X0\ X1\ X2 = k2\_relat\_1\ X2) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_relat\_1\ X0) \Rightarrow (k2\_relat\_1\ (k2\_relat\_1\ X0) = X0) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1))) \wedge (m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X1\ X0)))) \Rightarrow (\forall X4.\forall X5.\forall X6.\forall X7.\ (g1\_petri\ X0\ X1\ X2\ X3 = g1\_petri\ X4\ X5\ X6\ X7) \Rightarrow ((X0 = X4) \wedge ((X1 = X5) \wedge (X2 = X6) \wedge (X3 = X7)))) \tag{3}$$

Assume the following.

$$\forall X0.(l1\_petri\ X0) \Rightarrow (m1\_subset\_1\ (u2\_petri\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u4\_struct\_0\ X0)\ (u1\_struct\_0\ X0)))) \tag{4}$$

Assume the following.

$$\forall X0.(l1\_petri\ X0) \Rightarrow (m1\_subset\_1\ (u1\_petri\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u4\_struct\_0\ X0)))) \tag{5}$$

Assume the following.

$$\forall X0.(l1\_petri\ X0) \Rightarrow ((v1\_petri\ (k11\_petri\ X0)) \wedge (l1\_petri\ (k11\_petri\ X0))) \tag{6}$$

Assume the following.

$$\forall X0.(l1\_petri\ X0) \Rightarrow (k11\_petri\ X0 = g1\_petri\ (u1\_struct\_0\ X0)\ (u4\_struct\_0\ X0)\ (k3\_relset\_1\ (u4\_struct\_0\ X0)\ (u1\_struct\_0\ X0)\ (u2\_petri\ X0))\ (k3\_relset\_1\ (u1\_struct\_0\ X0)\ (u4\_struct\_0\ X0)\ (u1\_petri\ X0))) \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1))) \Rightarrow (v1\_relat\_1\ X2) \tag{8}$$

Assume the following.

$$\forall X0.(l1\_petri\ X0) \Rightarrow ((v1\_petri\ X0) \Rightarrow (X0 = g1\_petri\ (u1\_struct\_0\ X0)\ (u4\_struct\_0\ X0)\ (u1\_petri\ X0)\ (u2\_petri\ X0))) \tag{9}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((\neg v11\_struct\_0\ X0) \wedge ((v2\_petri\ X0) \wedge ((v3\_petri\ X0) \wedge (l1\_petri\ X0))))) \Rightarrow (k11\_petri\ (k11\_petri\ X0) = g1\_petri\ (u1\_struct\_0\ X0)\ (u4\_struct\_0\ X0)\ (u1\_petri\ X0)\ (u2\_petri\ X0))$$