t39_pnproc_1 (TMM-puPutY3h1xQiZHNYdNWYUVPLvoaA7rkp)

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Let $m2\_pnproc\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m3\_pnproc\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_finseq\_2 : \iota \Rightarrow \iota$ be given. Let $k8\_pnproc\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_pre\_poly : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_pre\_poly : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_pnproc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.(m2\_pnproc\_1\ X1\ X0) \Rightarrow (\forall X2.(m2\_finseq\_2\ X2\ X1\ (k3\_finseq\_2\ X1)) \Rightarrow (\forall X3.(m2\_finseq\_2\ X3\ X1\ (k3\_finseq\_2\ X1)) \Rightarrow (k8\_pnproc\_1\ X0\ X1\ (k1\_pre\_poly\ X1\ X2\ X3) = k3\_relat\_1\ (k8\_pnproc\_1\ X0\ X1\ X2)\ (k8\_pnproc\_1\ X0\ X1\ X3)))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(m2\_pnproc\_1\ X1\ X0) \Rightarrow (\forall X2.(m3\_pnproc\_1\ X2\ X0\ X1) \Rightarrow (k8\_pnproc\_1\ X0\ X1\ (k3\_pre\_poly\ X1\ X2) = k7\_pnproc\_1\ X0\ X2)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(m2\_pnproc\_1\ X1\ X0) \Rightarrow (\forall X2.(m3\_pnproc\_1\ X2\ X0\ X1) \Leftrightarrow (m1\_subset\_1\ X2\ X1)) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(m2\_pnproc\_1\ X1\ X0) \Rightarrow (\neg v1\_xboole\_0\ X1) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0) \wedge (m1\_subset\_1\ X1\ X0)) \Rightarrow (m2\_finseq\_2\ (k3\_pre\_poly\ X0\ X1)\ X0\ (k3\_finseq\_2\ X0)) \tag{5}$$

Theorem 1

$$\forall X0.\forall X1.(m2\_pnproc\_1\ X1\ X0) \Rightarrow (\forall X2.(m3\_pnproc\_1\ X2\ X0\ X1) \Rightarrow (\forall X3.(m2\_finseq\_2\ X3\ X1\ (k3\_finseq\_2\ X1)) \Rightarrow (k8\_pnproc\_1\ X0\ X1\ (k1\_pre\_poly\ X1\ X3\ (k3\_pre\_poly\ X1\ X2)) = k3\_relat\_1\ (k8\_pnproc\_1\ X0\ X1\ X3)\ (k7\_pnproc\_1\ X0\ X2))))$$