

t26\_instalg1  
(TMX4aMoNH3LqtzjaKaRRhySLXmxSVsG243H)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $l1\_msualg\_1 : \iota \Rightarrow o$  be given. Let  $l3\_msualg\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_instalg1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $g3\_msualg\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $u3\_msualg\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $u4\_msualg\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_instalg1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_partfun1 : \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $u4\_struct\_0 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2\_struct\_0 X0) \wedge (l1\_msualg\_1 X0)) \Rightarrow (\forall X1. \\ & (l3\_msualg\_1 X1 X0) \Rightarrow (k1\_instalg1 X0 X0 X1 (k6\_partfun1 (u1\_struct\_0 \\ & X0)) (k6\_partfun1 (u4\_struct\_0 X0)) = g3\_msualg\_1 X0 (u3\_msualg\_1 \\ & X0 X1) (u4\_msualg\_1 X0 X1))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2\_struct\_0 X0) \wedge (l1\_msualg\_1 X0)) \Rightarrow (\forall X1. \\ & ((\neg v2\_struct\_0 X1) \wedge (l1\_msualg\_1 X1)) \Rightarrow (\forall X2. (l3\_msualg\_1 \\ & X2 X0) \Rightarrow (k2\_instalg1 X0 X1 X2 = k1\_instalg1 X1 X0 X2 (k6\_partfun1 ( \\ & u1\_struct\_0 X1)) (k6\_partfun1 (u4\_struct\_0 X1)))))) \end{aligned} \tag{2}$$

**Theorem 1**

$$\begin{aligned} & \forall X0. ((\neg v2\_struct\_0 X0) \wedge (l1\_msualg\_1 X0)) \Rightarrow (\forall X1. \\ & (l3\_msualg\_1 X1 X0) \Rightarrow (k2\_instalg1 X0 X0 X1 = g3\_msualg\_1 X0 (u3\_msualg\_1 \\ & X0 X1) (u4\_msualg\_1 X0 X1))) \end{aligned}$$