

t8\_instalg1  
(TMYo3KTFrLyYh9fRKXhqgnVDnsBArbqUtfC)

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Let  $v1\_instal1 : \iota \Rightarrow o$  be given. Let  $l1\_msualg\_1 : \iota \Rightarrow o$  be given. Let  $r3\_pua2mss1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  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. Let  $v11\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. ((v11\_struct\_0 X0) \wedge (l1\_msualg\_1 X0)) \Rightarrow (r3\_pua2mss1 X0 X0 (k6\_partfun1 (u1\_struct\_0 X0)) (k6\_partfun1 (u4\_struct\_0 X0))) \quad (1)$$

Assume the following.

$$\forall X0. ((\neg v2\_struct\_0 X0) \wedge ((\neg v11\_struct\_0 X0) \wedge (l1\_msualg\_1 X0))) \Rightarrow (r3\_pua2mss1 X0 X0 (k6\_partfun1 (u1\_struct\_0 X0)) (k6\_partfun1 (u4\_struct\_0 X0))) \quad (2)$$

Assume the following.

$$\forall X0. (l1\_msualg\_1 X0) \Rightarrow (((v2\_struct\_0 X0) \wedge (v1\_instal1 X0)) \Rightarrow (v11\_struct\_0 X0)) \quad (3)$$

**Theorem 1**

$$\forall X0. ((v1\_instal1 X0) \wedge (l1\_msualg\_1 X0)) \Rightarrow (r3\_pua2mss1 X0 X0 (k6\_partfun1 (u1\_struct\_0 X0)) (k6\_partfun1 (u4\_struct\_0 X0)))$$