

## t92\_scmfsa\_2

(TMMQzCAYvjRPD6xfd6zYbrf7YaJzNvZAcFX)

October 27, 2020

Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_compos\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_scmfsa\_2 : \iota$  be given. Let  $k2\_compos\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k3\_xtuple\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k1\_ami\_3 : \iota$  be given. Let  $k2\_compos\_1 : \iota \Rightarrow \iota$  be given. Let  $l1\_compos\_1 : \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_8 : \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v1\_compos\_0 : \iota \Rightarrow o$  be given. Let  $k4\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $v2\_compos\_0 : \iota \Rightarrow o$  be given. Let  $v3\_compos\_0 : \iota \Rightarrow o$  be given. Let  $v5\_compos\_0 : \iota \Rightarrow o$  be given. Let  $l1\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $l1\_memstr\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_3 : \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $k1\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (u1\_compos\_1 k1\_ami\_3)) \Rightarrow ((k2\_compos\_0 (u1\_compos\_1 k1\_ami\_3) X0 = k6\_numbers) \Rightarrow (X0 = k2\_compos\_1 k1\_ami\_3)) \quad (1)$$

Assume the following.

$$\forall X0.(l1\_compos\_1 X0) \Rightarrow (k2\_compos\_0 (u1\_compos\_1 X0) (k2\_compos\_1 X0) = k6\_numbers) \quad (2)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (u1\_compos\_1 k1\_ami\_3)) \Rightarrow (r1\_xxreal\_0 (k2\_compos\_0 (u1\_compos\_1 k1\_ami\_3) X0) np\_8) \quad (3)$$

Assume the following.

$$k2\_compos\_1 k1\_ami\_3 = k3\_xtuple\_0 k6\_numbers k1\_xboole\_0 k1\_xboole\_0 \quad (4)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (u1\_compos\_1 k1\_scmfsa\_2)) \Rightarrow ((r1\_xxreal\_0 (k2\_compos\_0 (u1\_compos\_1 k1\_scmfsa\_2) X0) np\_8) \Rightarrow (m1\_subset\_1 X0 (u1\_compos\_1 k1\_ami\_3))) \quad (5)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v1\_xboole\_0 X0)\wedge(v1\_compos\_0 X0))\wedge(m1\_subset\_1 X1 X0))\Rightarrow(k2\_compos\_0 X0 X1 = k4\_xtuple\_0 X1) \quad (7)$$

Assume the following.

$$\forall X0.(l1\_compos\_1 X0)\Rightarrow((v1\_compos\_0 (u1\_compos\_1 X0))\wedge((v2\_compos\_0 (u1\_compos\_1 X0))\wedge((v3\_compos\_0 (u1\_compos\_1 X0))\wedge(v5\_compos\_0 (u1\_compos\_1 X0)))))) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.(l1\_extpro\_1 X1 X0)\Rightarrow((l1\_memstr\_0 X1 X0)\wedge(l1\_compos\_1 X1)) \quad (9)$$

Assume the following.

$$\forall X0.(l1\_compos\_1 X0)\Rightarrow(m1\_subset\_1 (k2\_compos\_1 X0) (u1\_compos\_1 X0)) \quad (10)$$

Assume the following.

$$(v1\_extpro\_1 k1\_scmf\_sa\_2 np\_3)\wedge(l1\_extpro\_1 k1\_scmf\_sa\_2 np\_3) \quad (11)$$

Assume the following.

$$(v1\_extpro\_1 k1\_ami\_3 np\_2)\wedge(l1\_extpro\_1 k1\_ami\_3 np\_2) \quad (12)$$

Assume the following.

$$\forall X0.k4\_xtuple\_0 X0 = k1\_xtuple\_0 (k1\_xtuple\_0 X0) \quad (13)$$

Assume the following.

$$\forall X0.\forall X1.k4\_tarski X0 X1 = k2\_tarski (k2\_tarski X0 X1) (k1\_tarski X0) \quad (14)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.k3\_xtuple\_0 X0 X1 X2 = k4\_tarski (k4\_tarski X0 X1) X2 \quad (15)$$

Assume the following.

$$\forall X0.\forall X1.k2\_tarski X0 X1 = k2\_tarski X1 X0 \quad (16)$$

Assume the following.

$$\forall X0.(v5\_compos\_0 X0)\Rightarrow(\neg v1\_xboole\_0 X0) \quad (17)$$

**Theorem 1**

$$\forall X0.(m1\_subset\_1 X0 (u1\_compos\_1 k1\_scmf\_sa\_2))\Rightarrow((k2\_compos\_0 (u1\_compos\_1 k1\_scmf\_sa\_2) X0 = k6\_numbers)\Rightarrow(X0 = k3\_xtuple\_0 k6\_numbers k1\_xboole\_0 k1\_xboole\_0))$$