

# t1\_msscyc\_2 (TMLivtFCzx- MUKmi43NUKTGZDpGfxPSCYKEg)

October 27, 2020

Let  $l1\_msualg\_1 : \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_msscyc\_2 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $u4\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k13\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $u1\_msualg\_1 : \iota \Rightarrow \iota$  be given. Let  $k4\_finseq\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (r1\_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k2\_zfmisc\_1 X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow (\exists X4. \exists X5. (X4 \in X0) \wedge ((X5 \in X1) \wedge (X3 = k4\_tarski X4 X5)))) \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. (l1\_msualg\_1 X0) \Rightarrow (\forall X1. (X1 = k1\_msscyc\_2 X0) \Leftrightarrow \\ (\forall X2. (X2 \in X1) \Leftrightarrow (\exists X3. \exists X4. (X2 = k4\_tarski X3 \\ X4) \wedge ((X3 \in u4\_struct\_0 X0) \wedge ((X4 \in u1\_struct\_0 X0) \wedge (\exists X5. \\ (v7\_ordinal1 X5) \wedge (\exists X6. (m1\_subset\_1 X6 (k13\_finseq\_1 ( \\ u1\_struct\_0 X0)))) \wedge ((k1\_funct\_1 (u1\_msualg\_1 X0) X3 = X6) \wedge ((X5 \in \\ k4\_finseq\_1 X6) \wedge (k1\_funct\_1 X6 X5 = X4)))))))))) \quad (3) \end{aligned}$$

## Theorem 1

$$\forall X0. (l1\_msualg\_1 X0) \Rightarrow (r1\_tarski (k1\_msscyc\_2 X0) (k2\_zfmisc\_1 (u4\_struct\_0 X0) (u1\_struct\_0 X0)))$$