

## t8\_orders\_3

(TMH1gzrsyTwUgMzYU5U6tEopjogQJhKGeZb)

October 27, 2020

Let  $l1\_struct\_0 : \iota \Rightarrow o$  be given. Let  $k2\_orders\_3 : \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (X1 = k2\_orders\_3 X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (\exists X3. (l1\_struct\_0 X3) \wedge ((X3 \in X0) \wedge (X2 = u1\_struct\_0 X3)))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k1\_tarski X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (X2 = X0)) \quad (2)$$

### Theorem 1

$$\forall X0. (l1\_struct\_0 X0) \Rightarrow (k2\_orders\_3 (k1\_tarski X0) = k1\_tarski (u1\_struct\_0 X0))$$