

t8_dtconstr (TMYKjAQNF- FWUM9zTYBeMZnE9X9nnuX3U5Wy)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_lang1 : \iota \Rightarrow o$ be given. Let $r1_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_lang1 : \iota \Rightarrow \iota$ be given. Let $k2_lang1 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $r1_lang1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (\neg(\neg r1_xboole_0 X0 X1) \wedge (\forall X2. \neg(X2 \in X0) \wedge (X2 \in X1))) \wedge (\neg(\exists X2. (X2 \in X0) \wedge (X2 \in X1)) \wedge (r1_xboole_0 X0 X1)) \quad (1)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge (l1_lang1 X0)) \Rightarrow (k2_lang1 X0 = ReplSep (toset (\lambda X1 : \iota. m1_subset_1 X1 (u1_struct_0 X0))) (\lambda X1 : \iota. \exists X2. ((v1_relat_1 X2) \wedge ((v1_funct_1 X2) \wedge (v1_finseq_1 X2)))) \wedge (r1_lang1 X0 X1 X2)) (\lambda X1 : \iota. X1)) \quad (2)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge (l1_lang1 X0)) \Rightarrow (k1_lang1 X0 = ReplSep (toset (\lambda X1 : \iota. m1_subset_1 X1 (u1_struct_0 X0))) (\lambda X1 : \iota. \forall X2. ((v1_relat_1 X2) \wedge ((v1_funct_1 X2) \wedge (v1_finseq_1 X2)))) \Rightarrow (\neg r1_lang1 X0 X1 X2)) (\lambda X1 : \iota. X1)) \quad (3)$$

Theorem 1

$$\forall X0. ((\neg v2_struct_0 X0) \wedge (l1_lang1 X0)) \Rightarrow (r1_xboole_0 (k1_lang1 X0) (k2_lang1 X0))$$