

l22_dtconstr
(TMboemLrPiSksRNEqpFpuQojt1s2djX17yk)

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Let $k2_lang1 : \iota \Rightarrow \iota$ be given. Let $k5_dtconstr : \iota$ 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 $r1_lang1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v1_lang1 : \iota \Rightarrow o$ be given. Let $l1_lang1 : \iota \Rightarrow o$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$(\neg v2_struct_0\ k5_dtconstr) \wedge ((v1_lang1\ k5_dtconstr) \wedge (l1_lang1\ k5_dtconstr)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k2_xboole_0\ X0\ X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow ((X3 \in X0) \vee (X3 \in X1))) \quad (2)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0\ X0) \wedge (l1_lang1\ X0)) \Rightarrow (k2_lang1\ X0 = ReplSep\ (toset\ (\lambda X1 : \iota. m1_subset_1\ X1\ (u1_struct_0\ X0)))\ (\lambda X1 : \iota. \exists X2. ((v1_relat_1\ X2) \wedge ((v1_funct_1\ X2) \wedge (v1_finseq_1\ X2)))) \wedge (r1_lang1\ X0\ X1\ X2))\ (\lambda X1 : \iota. X1)) \quad (3)$$

Theorem 1

$$k2_lang1\ k5_dtconstr = ReplSep\ (toset\ (\lambda X0 : \iota. m1_subset_1\ X0\ (u1_struct_0\ k5_dtconstr)))\ (\lambda X0 : \iota. \exists X1. ((v1_relat_1\ X1) \wedge ((v1_funct_1\ X1) \wedge (v1_finseq_1\ X1))) \wedge (r1_lang1\ k5_dtconstr\ X0\ X1))\ (\lambda X0 : \iota. X0)$$