

# l35\_dtconstr

(TMN7BwpbCrjMb8bsjD8sKsw7rJF9rT9a3eu)

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Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $c2\_dtconstr : \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k5\_dtconstr : \iota$  be given. Let  $k6\_dtconstr : \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v1\_dtconstr : \iota \Rightarrow o$  be given. Let  $l1\_lang1 : \iota \Rightarrow o$  be given. Let  $k1\_lang1 : \iota \Rightarrow \iota$  be given. Let  $v1\_lang1 : \iota \Rightarrow o$  be given. Let  $v2\_dtconstr : \iota \Rightarrow o$  be given. Let  $v3\_dtconstr : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1\_subset\_1 X0 X1) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v1\_xboole\_0 X0) \wedge ((\neg v1\_xboole\_0 X1) \wedge \\ & (m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)))) \Rightarrow (\forall X2. (m2\_subset\_1 \\ & X2 X0 X1) \Leftrightarrow (m1\_subset\_1 X2 X1)) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v1\_dtconstr X0) \wedge (l1\_lang1 X0))) \Rightarrow (k6\_dtconstr X0 = k1\_lang1 X0) \quad (3)$$

Assume the following.

$$c2\_dtconstr \in k1\_lang1 k5\_dtconstr \quad (4)$$

Assume the following.

$$(\neg v2\_struct\_0 k5\_dtconstr) \wedge ((v1\_lang1 k5\_dtconstr) \wedge ((v1\_dtconstr k5\_dtconstr) \wedge ((v2\_dtconstr k5\_dtconstr) \wedge (v3\_dtconstr k5\_dtconstr)))) \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v1\_dtconstr X0) \wedge (l1\_lang1 X0))) \Rightarrow \\ & ((\neg v1\_xboole\_0 (k6\_dtconstr X0)) \wedge (m1\_subset\_1 (k6\_dtconstr \\ & X0) (k1\_zfmisc\_1 (u1\_struct\_0 X0)))) \end{aligned} \quad (6)$$

Assume the following.

$$(\neg v2\_struct\_0 \ k5\_dtconstr) \wedge ((v1\_lang1 \ k5\_dtconstr) \wedge (l1\_lang1 \ k5\_dtconstr)) \quad (7)$$

Assume the following.

$$\forall X0.(v1\_xboole\_0 \ X0) \Rightarrow (\forall X1.(m1\_subset\_1 \ X1 \ (k1\_zfmisc\_1 \ X0)) \Rightarrow (v1\_xboole\_0 \ X1)) \quad (8)$$

**Theorem 1**

$$m2\_subset\_1 \ c2\_dtconstr \ (u1\_struct\_0 \ k5\_dtconstr) \ (k6\_dtconstr \ k5\_dtconstr)$$