

t11\_abcmiz\_0  
(TMUSSLdFVXjC7KGzRUBTeijseC5tgzmm18Z)

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Let  $l2\_abcmiz\_0 : \iota \Rightarrow o$  be given. Let  $g2\_abcmiz\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $u1\_abcmiz\_0 : \iota \Rightarrow \iota$  be given. Let  $u1\_orders\_2 : \iota \Rightarrow \iota$  be given. Let  $u2\_abcmiz\_0 : \iota \Rightarrow \iota$  be given. Let  $u3\_abcmiz\_0 : \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_abcmiz\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_finsub\_1 : \iota \Rightarrow \iota$  be given. Let  $l1\_abcmiz\_0 : \iota \Rightarrow o$  be given. Let  $l1\_orders\_2 : \iota \Rightarrow o$  be given. Let  $k2\_abcmiz\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned}
& \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. ((m1\_subset\_1 \\
& X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X0))) \wedge (((v1\_funct\_1 X3) \wedge ((v1\_funct\_2 \\
& X3 X1 X1) \wedge (m1\_subset\_1 X3 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X1 X1)))))) \wedge \\
& ((v1\_funct\_1 X4) \wedge ((v1\_funct\_2 X4 X0 (k5\_finsub\_1 X1)) \wedge (m1\_subset\_1 \\
& X4 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 (k5\_finsub\_1 X1))))))) \Rightarrow (\forall X5. \\
& \forall X6. \forall X7. \forall X8. \forall X9. (g2\_abcmiz\_0 X0 X1 \\
& X2 X3 X4 = g2\_abcmiz\_0 X5 X6 X7 X8 X9) \Rightarrow ((X0 = X5) \wedge ((X1 = X6) \wedge ((X2 = X7) \wedge \\
& ((X3 = X8) \wedge (X4 = X9))))))
\end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
& \forall X0. (l2\_abcmiz\_0 X0) \Rightarrow ((v1\_funct\_1 (u3\_abcmiz\_0 X0)) \wedge \\
& ((v1\_funct\_2 (u3\_abcmiz\_0 X0) (u1\_struct\_0 X0) (k5\_finsub\_1 ( \\
& u1\_abcmiz\_0 X0))) \wedge (m1\_subset\_1 (u3\_abcmiz\_0 X0) (k1\_zfmisc\_1 \\
& (k2\_zfmisc\_1 (u1\_struct\_0 X0) (k5\_finsub\_1 (u1\_abcmiz\_0 X0)))))))
\end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned}
& \forall X0. (l1\_abcmiz\_0 X0) \Rightarrow ((v1\_funct\_1 (u2\_abcmiz\_0 X0)) \wedge \\
& ((v1\_funct\_2 (u2\_abcmiz\_0 X0) (u1\_abcmiz\_0 X0) (u1\_abcmiz\_0 X0)) \wedge \\
& (m1\_subset\_1 (u2\_abcmiz\_0 X0) (k1\_zfmisc\_1 (k2\_zfmisc\_1 (u1\_abcmiz\_0 \\
& X0) (u1\_abcmiz\_0 X0))))))
\end{aligned} \tag{3}$$

Assume the following.

$$\forall X0.(l1\_orders\_2 X0) \Rightarrow (m1\_subset\_1 (u1\_orders\_2 X0) (k1\_zfmisc\_1 (k2\_zfmisc\_1 (u1\_struct\_0 X0) (u1\_struct\_0 X0)))) \quad (4)$$

Assume the following.

$$\forall X0.(l2\_abcmiz\_0 X0) \Rightarrow ((l1\_orders\_2 X0) \wedge (l1\_abcmiz\_0 X0)) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((l2\_abcmiz\_0 X0) \wedge (m1\_subset\_1 X1 (u1\_abcmiz\_0 X0))) \Rightarrow (m1\_subset\_1 (k3\_abcmiz\_0 X0 X1) (k1\_zfmisc\_1 (u1\_struct\_0 X0))) \quad (6)$$

Assume the following.

$$\forall X0.(l2\_abcmiz\_0 X0) \Rightarrow (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 X0))) \Rightarrow (k2\_abcmiz\_0 X0 X1 = k1\_funct\_1 (u3\_abcmiz\_0 X0) X1)) \quad (7)$$

Assume the following.

$$\forall X0.(l2\_abcmiz\_0 X0) \Rightarrow (\forall X1.(m1\_subset\_1 X1 (u1\_abcmiz\_0 X0))) \Rightarrow (\forall X2.(m1\_subset\_1 X2 (k1\_zfmisc\_1 (u1\_struct\_0 X0)))) \Rightarrow ((X2 = k3\_abcmiz\_0 X0 X1) \Leftrightarrow (\forall X3.(X3 \in X2) \Leftrightarrow (\exists X4.(m1\_subset\_1 X4 (u1\_struct\_0 X0)) \wedge ((X3 = X4) \wedge (X1 \in k2\_abcmiz\_0 X0 X4))))) \quad (8)$$

**Theorem 1**

$$\forall X0.(l2\_abcmiz\_0 X0) \Rightarrow (\forall X1.(l2\_abcmiz\_0 X1) \Rightarrow ((g2\_abcmiz\_0 (u1\_struct\_0 X0) (u1\_abcmiz\_0 X0) (u1\_orders\_2 X0) (u2\_abcmiz\_0 X0) (u3\_abcmiz\_0 X0) = g2\_abcmiz\_0 (u1\_struct\_0 X1) (u1\_abcmiz\_0 X1) (u1\_orders\_2 X1) (u2\_abcmiz\_0 X1) (u3\_abcmiz\_0 X1))) \Rightarrow (\forall X2.(m1\_subset\_1 X2 (u1\_abcmiz\_0 X0))) \Rightarrow (\forall X3.(m1\_subset\_1 X3 (u1\_abcmiz\_0 X1)) \Rightarrow ((X2 = X3) \Rightarrow (k3\_abcmiz\_0 X0 X2 = k3\_abcmiz\_0 X1 X3))))))$$