t50_aff_4 (TMWxtW7WnVWXHjVnhRB2NinswUQ1VUE1J7B)

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Let $v7\_struct\_0 : \iota \Rightarrow o$ be given. Let $v1\_diraf : \iota \Rightarrow o$ be given. Let $l1\_analoaf : \iota \Rightarrow o$ be given. Let $v2\_diraf : \iota \Rightarrow o$ be given. Let $v4\_aff\_2 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_aff\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2\_analoaf : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v7\_struct\_0\ X0) \wedge ((v1\_diraf\ X0) \wedge (l1\_analoaf\ X0))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X4.(m1\_subset\_1\ X4\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X5.(m1\_subset\_1\ X5\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X6.(m1\_subset\_1\ X6\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X7.(m1\_subset\_1\ X7\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X8.(m1\_subset\_1\ X8\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (\forall X9.(m1\_subset\_1\ X9\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (\forall X10.(m1\_subset\_1\ X10\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (((X1 \in X8) \wedge ((X1 \in X9) \wedge ((X1 \in X10) \wedge ((X2 \in X8) \wedge ((X5 \in X8) \wedge ((X3 \in X9) \wedge ((X6 \in X9) \wedge ((X4 \in X10) \wedge ((X7 \in X10) \wedge ((v1\_aff\_1\ X8\ X0) \wedge ((v1\_aff\_1\ X9\ X0) \wedge ((v1\_aff\_1\ X10\ X0) \wedge ((r2\_analoaf\ X0\ X2\ X3\ X5\ X6) \wedge (r2\_analoaf\ X0\ X2\ X4\ X5\ X7)))))))))))))) \Rightarrow (((\neg v7\_struct\_0\ X0) \wedge ((v1\_diraf\ X0) \wedge ((v2\_diraf\ X0) \wedge (l1\_analoaf\ X0)))) \vee ((X1 = X2) \vee ((X1 = X3) \vee ((X1 = X4) \vee ((X8 = X9) \vee ((X8 = X10) \vee (r2\_analoaf\ X0\ X3\ X4\ X6\ X7))))))))))))))))) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v7\_struct\_0\ X0)\wedge((v1\_diraf\ X0)\wedge(l1\_analoaf\ X0)))\Rightarrow ((v4\_aff\_2\ X0)\Leftrightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))\Rightarrow(\forall X3.(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))\Rightarrow(\forall X4.(m1\_subset\_1\ X4\ (u1\_struct\_0\ X0))\Rightarrow(\forall X5.(m1\_subset\_1\ X5\ (u1\_struct\_0\ X0))\Rightarrow(\forall X6.(m1\_subset\_1\ X6\ (u1\_struct\_0\ X0))\Rightarrow(\forall X7.(m1\_subset\_1\ X7\ (u1\_struct\_0\ X0))\Rightarrow(\forall X8.(m1\_subset\_1\ X8\ (u1\_struct\_0\ X0))\Rightarrow(\forall X9.(m1\_subset\_1\ X9\ (u1\_struct\_0\ X0))\Rightarrow(\forall X10.(m1\_subset\_1\ X10\ (u1\_struct\_0\ X0))\Rightarrow(((X4\in X1)\wedge((X4\in X2)\wedge((X4\in X3)\wedge((X5\in X1)\wedge((X8\in X1)\wedge((X6\in X2)\wedge((X9\in X2)\wedge((X7\in X3)\wedge((X10\in X3)\wedge((v1\_aff\_1\ X1\ X0)\wedge((v1\_aff\_1\ X2\ X0)\wedge((v1\_aff\_1\ X3\ X0)\wedge((r2\_analoaf\ X0\ X5\ X6\ X8\ X9)\wedge(r2\_analoaf\ X0\ X5\ X7\ X8\ X10))))))))))))\Rightarrow((X4=X5)\vee((X4=X6)\vee((X4=X7)\vee((X1=X2)\vee((X1=X3)\vee(r2\_analoaf\ X0\ X6\ X7\ X9\ X10))))))))))))))))) \tag{2}$$

Theorem 1

$$\forall X0.((\neg v7\_struct\_0\ X0)\wedge((v1\_diraf\ X0)\wedge(l1\_analoaf\ X0)))\Rightarrow((\neg(\neg v7\_struct\_0\ X0)\wedge((v1\_diraf\ X0)\wedge((v2\_diraf\ X0)\wedge(l1\_analoaf\ X0))))\Rightarrow(v4\_aff\_2\ X0))$$