l33_waybel25 (TMG2ysjdicdM4Zenakut2hFApTcF5LuNv7S)

October 27, 2020

Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v2\_pre\_topc : \iota \Rightarrow o$ be given. Let $l1\_pre\_topc : \iota \Rightarrow o$ be given. Let $v4\_orders\_2 : \iota \Rightarrow o$ be given. Let $v7\_waybel\_0 : \iota \Rightarrow o$ be given. Let $l1\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_waybel24 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_waybel25 : \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $k2\_yellow\_6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3\_orders\_2 : \iota \Rightarrow o$ be given. Let $l1\_waybel\_9 : \iota \Rightarrow o$ be given. Let $v5\_pre\_topc : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_waybel\_9 : \iota \Rightarrow o$ be given. Let $v1\_orders\_2 : \iota \Rightarrow o$ be given. Let $l1\_struct\_0 : \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $l1\_orders\_2 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0))) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge ((v2\_pre\_topc\ X1) \wedge ((v3\_orders\_2\ X1) \wedge (l1\_waybel\_9\ X1)))) \Rightarrow (\forall X2.((v1\_funct\_1\ X2) \wedge ((v1\_funct\_2\ X2\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1)) \wedge ((v5\_pre\_topc\ X2\ X0\ X1) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1)))))))) \Leftrightarrow (m1\_subset\_1\ X2\ (u1\_struct\_0\ (k3\_waybel24\ X0\ X1)))))) \tag{1}$$

Assume the following.

$$\forall X0.(l1\_pre\_topc\ X0) \Rightarrow (u1\_struct\_0\ X0 = u1\_struct\_0\ (k1\_waybel25\ X0)) \tag{2}$$

Assume the following.

$$\forall X0.(l1\_pre\_topc\ X0) \Rightarrow ((v3\_orders\_2\ (k1\_waybel25\ X0)) \wedge (v1\_waybel\_9\ (k1\_waybel25\ X0))) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v2\_struct\_0\ X0) \wedge ((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0))) \wedge ((\neg v2\_struct\_0\ X1) \wedge ((v2\_pre\_topc\ X1) \wedge (l1\_waybel\_9\ X1)))) \Rightarrow ((\neg v2\_struct\_0\ (k3\_waybel24\ X0\ X1)) \wedge (v1\_orders\_2\ (k3\_waybel24\ X0\ X1))) \tag{4}$$

Assume the following.

$$\forall X0.((v2\_pre\_topc\ X0)\wedge(l1\_pre\_topc\ X0))\Rightarrow((v2\_pre\_topc\ (k1\_waybel25\ X0))\wedge(v1\_waybel\_9\ (k1\_waybel25\ X0))) \tag{5}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_pre\_topc\ X0))\Rightarrow((\neg v2\_struct\_0\ (k1\_waybel25\ X0))\wedge(v1\_waybel\_9\ (k1\_waybel25\ X0))) \tag{6}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_struct\_0\ X0))\Rightarrow(\neg v1\_xboole\_0\ (u1\_struct\_0\ X0)) \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.((l1\_struct\_0\ X0)\wedge(l1\_waybel\_0\ X1\ X0))\Rightarrow((v1\_funct\_1\ (u1\_waybel\_0\ X0\ X1))\wedge((v1\_funct\_2\ (u1\_waybel\_0\ X0\ X1)\ (u1\_struct\_0\ X1)\ (u1\_struct\_0\ X0))\wedge(m1\_subset\_1\ (u1\_waybel\_0\ X0\ X1)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X1)\ (u1\_struct\_0\ X0)))))) \tag{8}$$

Assume the following.

$$\forall X0.(l1\_struct\_0\ X0)\Rightarrow(\forall X1.(l1\_waybel\_0\ X1\ X0)\Rightarrow(l1\_orders\_2\ X1)) \tag{9}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0)\Rightarrow(l1\_struct\_0\ X0) \tag{10}$$

Assume the following.

$$\forall X0.\forall X1.((l1\_pre\_topc\ X0)\wedge((\neg v2\_struct\_0\ X1)\wedge(l1\_waybel\_9\ X1)))\Rightarrow((v1\_orders\_2\ (k3\_waybel24\ X0\ X1))\wedge(l1\_orders\_2\ (k3\_waybel24\ X0\ X1))) \tag{11}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((\neg v1\_xboole\_0\ X0)\wedge(((\neg v2\_struct\_0\ X1)\wedge(l1\_orders\_2\ X1))\wedge(((v1\_funct\_1\ X2)\wedge((v1\_funct\_2\ X2\ X0\ (u1\_struct\_0\ X1))\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ (u1\_struct\_0\ X1))))))\wedge(m1\_subset\_1\ X3\ X0))))\Rightarrow(m1\_subset\_1\ (k2\_yellow\_6\ X0\ X1\ X2\ X3)\ (u1\_struct\_0\ X1)) \tag{12}$$

Assume the following.

$$\forall X0.(l1\_pre\_topc\ X0)\Rightarrow((v1\_waybel\_9\ (k1\_waybel25\ X0))\wedge(l1\_waybel\_9\ (k1\_waybel25\ X0))) \tag{13}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v2\_pre\_topc\ X0)\wedge(l1\_pre\_topc\ X0)))\Rightarrow(\forall X1.((\neg v2\_struct\_0\ X1)\wedge((v2\_pre\_topc\ X1)\wedge(l1\_pre\_topc\ X1)))\Rightarrow(\forall X2.((\neg v2\_struct\_0\ X2)\wedge((v4\_orders\_2\ X2)\wedge((v7\_waybel\_0\ X2)\wedge(l1\_waybel\_0\ X2\ (k3\_waybel24\ X0\ (k1\_waybel25\ X1))))))\Rightarrow(\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X2))\Rightarrow(((v1\_funct\_1\ (k2\_yellow\_6\ (u1\_struct\_0\ X2)\ (k3\_waybel24\ X0\ (k1\_waybel25\ X1))\ (u1\_waybel\_0\ (k3\_waybel24\ X0\ (k1\_waybel25\ X1))\ X2)\ X3))\wedge((v1\_funct\_2\ (k2\_yellow\_6\ (u1\_struct\_0\ X2)\ (k3\_waybel24\ X0\ (k1\_waybel25\ X1))\ (u1\_waybel\_0\ (k3\_waybel24\ X0\ (k1\_waybel25\ X1))\ X2)\ X3)\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ (k1\_waybel25\ X1)))\wedge(m1\_subset\_1\ (k2\_yellow\_6\ (u1\_struct\_0\ X2)\ (k3\_waybel24\ X0\ (k1\_waybel25\ X1))\ (u1\_waybel\_0\ (k3\_waybel24\ X0\ (k1\_waybel25\ X1))\ X2)\ X3)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ (k1\_waybel25\ X1)))))\wedge((v1\_funct\_1\ (k2\_yellow\_6\ (u1\_struct\_0\ X2)\ (k3\_waybel24\ X0\ (k1\_waybel25\ X1))\ (u1\_waybel\_0\ (k3\_waybel24\ X0\ (k1\_waybel25\ X1))\ X2)\ X3))\wedge((v1\_funct\_2\ (k2\_yellow\_6\ (u1\_struct\_0\ X2)\ (k3\_waybel24\ X0\ (k1\_waybel25\ X1))\ (u1\_waybel\_0\ (k3\_waybel24\ X0\ (k1\_waybel25\ X1))\ X2)\ X3)\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1))\wedge(m1\_subset\_1\ (k2\_yellow\_6\ (u1\_struct\_0\ X2)\ (k3\_waybel24\ X0\ (k1\_waybel25\ X1))\ (u1\_waybel\_0\ (k3\_waybel24\ X0\ (k1\_waybel25\ X1))\ X2)\ X3)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1)))))))))))$$