t36_waybel27 (TMZWL2mcmu2d9n7DwVtDV6nc8YKRVgQ5uMr)

October 27, 2020

Let $v3\_orders\_2 : \iota \Rightarrow o$ be given. Let $v4\_orders\_2 : \iota \Rightarrow o$ be given. Let $v5\_orders\_2 : \iota \Rightarrow o$ be given. Let $v1\_lattice3 : \iota \Rightarrow o$ be given. Let $v2\_lattice3 : \iota \Rightarrow o$ be given. Let $v3\_lattice3 : \iota \Rightarrow o$ be given. Let $l1\_orders\_2 : \iota \Rightarrow o$ be given. Let $r5\_waybel\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_waybel27 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v23\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_waybel27 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v1\_orders\_2 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v3\_orders\_2\ X0) \wedge ((v4\_orders\_2\ X0) \wedge ((v5\_orders\_2\ X0) \wedge ((v1\_lattice3\ X0) \wedge ((v2\_lattice3\ X0) \wedge ((v3\_lattice3\ X0) \wedge (l1\_orders\_2\ X0)))))))) \Rightarrow (\forall X1.((v3\_orders\_2\ X1) \wedge ((v4\_orders\_2\ X1) \wedge ((v5\_orders\_2\ X1) \wedge ((v1\_lattice3\ X1) \wedge ((v2\_lattice3\ X1) \wedge ((v3\_lattice3\ X1) \wedge (l1\_orders\_2\ X1)))))))) \Rightarrow (\forall X2.((v3\_orders\_2\ X2) \wedge ((v4\_orders\_2\ X2) \wedge ((v5\_orders\_2\ X2) \wedge ((v1\_lattice3\ X2) \wedge ((v2\_lattice3\ X2) \wedge ((v3\_lattice3\ X2) \wedge (l1\_orders\_2\ X2)))))))) \Rightarrow (\forall X3.((v3\_orders\_2\ X3) \wedge ((v4\_orders\_2\ X3) \wedge ((v5\_orders\_2\ X3) \wedge ((v1\_lattice3\ X3) \wedge ((v2\_lattice3\ X3) \wedge ((v3\_lattice3\ X3) \wedge (l1\_orders\_2\ X3)))))))) \Rightarrow (\forall X4.((v1\_funct\_1\ X4) \wedge ((v1\_funct\_2\ X4\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1)) \wedge (m1\_subset\_1\ X4\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1))))))) \Rightarrow (\forall X5.((v1\_funct\_1\ X5) \wedge ((v1\_funct\_2\ X5\ (u1\_struct\_0\ X2)\ (u1\_struct\_0\ X3)) \wedge (m1\_subset\_1\ X5\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X2)\ (u1\_struct\_0\ X3)))))) \Rightarrow (((v23\_waybel\_0\ X4\ X0\ X1) \wedge (v23\_waybel\_0\ X5\ X2\ X3)) \Rightarrow (v23\_waybel\_0\ (k4\_waybel27\ X0\ X1\ X2\ X3\ X4\ X5)\ (k2\_waybel27\ X1\ X2)\ (k2\_waybel27\ X0\ X3)))))))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5.$$
$$(((\neg v2\_struct\_0\ X0)\wedge((v3\_orders\_2\ X0)\wedge((v5\_orders\_2\ X0)\wedge(l1\_orders\_2$$
$$X0))))\wedge(((\neg v2\_struct\_0\ X1)\wedge((v3\_orders\_2\ X1)\wedge((v5\_orders\_2$$
$$X1)\wedge(l1\_orders\_2\ X1))))\wedge(((\neg v2\_struct\_0\ X2)\wedge((v3\_orders\_2$$
$$X2)\wedge((v5\_orders\_2\ X2)\wedge(l1\_orders\_2\ X2))))\wedge(((\neg v2\_struct\_0$$
$$X3)\wedge((v3\_orders\_2\ X3)\wedge((v5\_orders\_2\ X3)\wedge(l1\_orders\_2\ X3))))\wedge$$
$$(((v1\_funct\_1\ X4)\wedge((v1\_funct\_2\ X4\ (u1\_struct\_0\ X0)\ (u1\_struct\_0$$
$$X1))\wedge(m1\_subset\_1\ X4\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0$$
$$X0)\ (u1\_struct\_0\ X1))))))\wedge((v1\_funct\_1\ X5)\wedge((v1\_funct\_2\ X5\ ($$
$$u1\_struct\_0\ X2)\ (u1\_struct\_0\ X3))\wedge(m1\_subset\_1\ X5\ (k1\_zfmisc\_1$$
$$(k2\_zfmisc\_1\ (u1\_struct\_0\ X2)\ (u1\_struct\_0\ X3))))))))))\Rightarrow(($$
$$v1\_funct\_1\ (k4\_waybel27\ X0\ X1\ X2\ X3\ X4\ X5))\wedge((v1\_funct\_2\ (k4\_waybel27$$
$$X0\ X1\ X2\ X3\ X4\ X5)\ (u1\_struct\_0\ (k2\_waybel27\ X1\ X2))\ (u1\_struct\_0$$
$$(k2\_waybel27\ X0\ X3)))\wedge(m1\_subset\_1\ (k4\_waybel27\ X0\ X1\ X2\ X3\ X4\ X5)$$
$$(k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ (k2\_waybel27\ X1\ X2))\ ($$
$$u1\_struct\_0\ (k2\_waybel27\ X0\ X3)))))))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v2\_struct\_0\ X0)\wedge(l1\_orders\_2\ X0))\wedge$$
$$((\neg v2\_struct\_0\ X1)\wedge((v3\_orders\_2\ X1)\wedge((v5\_orders\_2\ X1)\wedge(l1\_orders\_2$$
$$X1)))))\Rightarrow((v1\_orders\_2\ (k2\_waybel27\ X0\ X1))\wedge(l1\_orders\_2\ (k2\_waybel27$$
$$X0\ X1))) \tag{3}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0)\Rightarrow(\forall X1.(l1\_orders\_2\ X1)\Rightarrow(($$
$$r5\_waybel\_1\ X0\ X1)\Leftrightarrow(\exists X2.((v1\_funct\_1\ X2)\wedge((v1\_funct\_2$$
$$X2\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1))\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1$$
$$(k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1))))))\wedge(v23\_waybel\_0$$
$$X2\ X0\ X1)))) \tag{4}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0)\Rightarrow((v2\_lattice3\ X0)\Rightarrow(\neg v2\_struct\_0\ X0)) \tag{5}$$

Theorem 1

$$\forall X0.((v3\_orders\_2\ X0)\wedge((v4\_orders\_2\ X0)\wedge((v5\_orders\_2\ X0)\wedge((v1\_lattice3\ X0)\wedge((v2\_lattice3\ X0)\wedge((v3\_lattice3\ X0)\wedge(l1\_orders\_2\ X0)))))))\Rightarrow(\forall X1.((v3\_orders\_2\ X1)\wedge((v4\_orders\_2\ X1)\wedge((v5\_orders\_2\ X1)\wedge((v1\_lattice3\ X1)\wedge((v2\_lattice3\ X1)\wedge((v3\_lattice3\ X1)\wedge(l1\_orders\_2\ X1)))))))\Rightarrow(\forall X2.((v3\_orders\_2\ X2)\wedge((v4\_orders\_2\ X2)\wedge((v5\_orders\_2\ X2)\wedge((v1\_lattice3\ X2)\wedge((v2\_lattice3\ X2)\wedge((v3\_lattice3\ X2)\wedge(l1\_orders\_2\ X2)))))))\Rightarrow(\forall X3.((v3\_orders\_2\ X3)\wedge((v4\_orders\_2\ X3)\wedge((v5\_orders\_2\ X3)\wedge((v1\_lattice3\ X3)\wedge((v2\_lattice3\ X3)\wedge((v3\_lattice3\ X3)\wedge(l1\_orders\_2\ X3)))))))\Rightarrow(((r5\_waybel\_1\ X0\ X1)\wedge(r5\_waybel\_1\ X2\ X3))\Rightarrow(r5\_waybel\_1\ (k2\_waybel27\ X1\ X2)\ (k2\_waybel27\ X0\ X3))))))$$