l64_poset_1 (TMFdTodNqxSigsiLGFWRPsJ9sjnq39ktDuX)

October 27, 2020

Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v1\_orders\_2 : \iota \Rightarrow o$ be given. 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 $v1\_poset\_1 : \iota \Rightarrow o$ be given. Let $l1\_orders\_2 : \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v6\_orders\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6\_poset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ 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 $v5\_orders\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2\_poset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9\_funct\_7 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_yellow\_0 : \iota \Rightarrow \iota$ be given. Let $k7\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((v1\_funct\_1\ X3)\wedge ((v1\_funct\_2\ X3\ X0\ X1)\wedge(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))))\Rightarrow(\forall X4.\neg(X4 \in k7\_relset\_1\ X0\ X1\ X3\ X2)\wedge(\forall X5.\neg(X5 \in X0)\wedge((X5 \in X2)\wedge(X4 = k1\_funct\_1\ X3\ X5)))) \tag{1}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v1\_orders\_2\ X0)\wedge((v3\_orders\_2\ X0)\wedge((v4\_orders\_2\ X0)\wedge((v5\_orders\_2\ X0)\wedge((v1\_poset\_1\ X0)\wedge(l1\_orders\_2\ X0)))))))\Rightarrow(\forall X1.((\neg v1\_xboole\_0\ X1)\wedge((v6\_orders\_2\ X1\ (k6\_poset\_1\ X0\ X0))\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k6\_poset\_1\ X0\ X0))))))\Rightarrow(\forall X2.\forall X3.(v7\_ordinal1\ X3)\Rightarrow(\forall X4.((\neg v1\_xboole\_0\ X4)\wedge((v6\_orders\_2\ X4\ X0)\wedge(m1\_subset\_1\ X4\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))))\Rightarrow(\forall X5.((v1\_funct\_1\ X5)\wedge((v1\_funct\_2\ X5\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\wedge((v5\_orders\_3\ X5\ X0\ X0)\wedge(m1\_subset\_1\ X5\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))))))))\Rightarrow(\neg(X4 = ReplSep\ (toset\ (\lambda X6 : \iota.\ m1\_subset\_1\ X6\ (u1\_struct\_0\ X0)))\ (\lambda X6 : \iota.\exists X7.(m1\_subset\_1\ X7\ (u1\_struct\_0\ (k6\_poset\_1\ X0\ X0))))\wedge(\exists X8.((v1\_funct\_1\ X8)\wedge((v1\_funct\_2\ X8\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\wedge((v2\_poset\_1\ X8\ X0\ X0)\wedge(m1\_subset\_1\ X8\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))))))))\wedge((X8 = X7)\wedge((X7 \in X1)\wedge(X6 = k1\_funct\_1\ (k9\_funct\_7\ X8\ X3)\ (k3\_yellow\_0\ X0))))))\ (\lambda X6 : \iota.X6))\wedge((X2 \in k7\_relset\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)\ X5\ X4)\wedge(\forall X6.((v1\_funct\_1\ X6)\wedge((v1\_funct\_2\ X6\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\wedge((v2\_poset\_1\ X6\ X0\ X0)\wedge(m1\_subset\_1\ X6\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))))))))\Rightarrow(\neg(X6 \in X1)\wedge(X2 = k1\_funct\_1\ X5\ (k1\_funct\_1\ (k9\_funct\_7\ X6\ X3)\ (k3\_yellow\_0\ X0))))))))))$$