t20_scmfsa_m (TMaFLyye7b5F4rWXPQ8v6hpmBXwbkbbWL9U)

October 27, 2020

Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_scmfsa\_2 : \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v5\_funct\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_memstr\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_3 : \iota$ be given. Let $v1\_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_scmfsa\_2 : \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $v1\_ami\_2 : \iota \Rightarrow o$ be given. Let $v1\_scmfsa\_m : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_scmfsa\_2 : \iota \Rightarrow o$ be given. Let $k18\_scmfsa\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_memstr\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v4\_relat\_1\ X0\ (u1\_struct\_0\ k1\_scmfsa\_2)) \wedge ((v1\_funct\_1\ X0) \wedge ((v5\_funct\_1\ X0\ (k2\_memstr\_0\ np\_\_3\ k1\_scmfsa\_2)) \wedge (v1\_partfun1\ X0\ (u1\_struct\_0\ k1\_scmfsa\_2)))))) \Rightarrow (\forall X1.((v1\_relat\_1\ X1) \wedge ((v4\_relat\_1\ X1\ (u1\_struct\_0\ k1\_scmfsa\_2)) \wedge ((v1\_funct\_1\ X1) \wedge ((v5\_funct\_1\ X1\ (k2\_memstr\_0\ np\_\_3\ k1\_scmfsa\_2)) \wedge (v1\_partfun1\ X1\ (u1\_struct\_0\ k1\_scmfsa\_2)))))) \Rightarrow (((\forall X2.((v1\_ami\_2\ X2) \wedge (m1\_subset\_1\ X2\ (u1\_struct\_0\ k1\_scmfsa\_2))) \Rightarrow (k1\_funct\_1\ X0\ X2 = k1\_funct\_1\ X1\ X2)) \wedge (\forall X2.(m1\_scmfsa\_2\ X2) \Rightarrow (k18\_scmfsa\_2\ X0\ X2 = k18\_scmfsa\_2\ X1\ X2))) \Leftrightarrow (k6\_memstr\_0\ np\_\_3\ k1\_scmfsa\_2\ X0 = k6\_memstr\_0\ np\_\_3\ k1\_scmfsa\_2\ X1))) \tag{1}$$

Assume the following.

$$\forall X0.((v1\_ami\_2\ X0) \wedge (m1\_subset\_1\ X0\ (u1\_struct\_0\ k1\_scmfsa\_2))) \Rightarrow ((v1\_scmfsa\_m\ X0) \Leftrightarrow (X0 = k4\_scmfsa\_2\ k6\_numbers)) \tag{2}$$

Theorem 1

$$\forall X0.((v1\_relat\_1\ X0)\wedge((v4\_relat\_1\ X0\ (u1\_struct\_0\ k1\_scmfsa\_2))\wedge((v1\_funct\_1\ X0)\wedge((v5\_funct\_1\ X0\ (k2\_memstr\_0\ np\_\_3\ k1\_scmfsa\_2))\wedge(v1\_partfun1\ X0\ (u1\_struct\_0\ k1\_scmfsa\_2))))))\Rightarrow(\forall X1.((v1\_relat\_1\ X1)\wedge((v4\_relat\_1\ X1\ (u1\_struct\_0\ k1\_scmfsa\_2))\wedge((v1\_funct\_1\ X1)\wedge((v5\_funct\_1\ X1\ (k2\_memstr\_0\ np\_\_3\ k1\_scmfsa\_2))\wedge(v1\_partfun1\ X1\ (u1\_struct\_0\ k1\_scmfsa\_2))))))\Rightarrow(((k1\_funct\_1\ X0\ (k4\_scmfsa\_2\ k6\_numbers) = k1\_funct\_1\ X1\ (k4\_scmfsa\_2\ k6\_numbers))\wedge((\forall X2.((v1\_ami\_2\ X2)\wedge((\neg v1\_scmfsa\_m\ X2)\wedge(m1\_subset\_1\ X2\ (u1\_struct\_0\ k1\_scmfsa\_2))))\Rightarrow(k1\_funct\_1\ X0\ X2 = k1\_funct\_1\ X1\ X2))\wedge(\forall X2.(m1\_scmfsa\_2\ X2)\Rightarrow(k18\_scmfsa\_2\ X0\ X2 = k18\_scmfsa\_2\ X1\ X2))))\Rightarrow(k6\_memstr\_0\ np\_\_3\ k1\_scmfsa\_2\ X0 = k6\_memstr\_0\ np\_\_3\ k1\_scmfsa\_2\ X1)))$$