t65_hermitan (TMQhwZXMFx-HtKxSXWUEh8Gz6ubZamCURozi)

October 27, 2020

Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v13\_algstr\_0 : \iota \Rightarrow o$ be given. Let $v2\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v3\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v4\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v8\_vectsp\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_complfld : \iota$ be given. Let $v9\_vectsp\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v10\_vectsp\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v11\_vectsp\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l1\_vectsp\_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $v2\_bilinear : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4\_bilinear : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3\_hermitan : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5\_hermitan : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k6\_vectsp10 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13\_bilinear : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_vectsp\_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_binop\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8\_hermitan : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k14\_bilinear : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_hermitan : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_bilinear : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2\_hermitan : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7\_hermitan : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v13\_algstr\_0\ X0) \wedge ((v2\_rlvect\_1\ X0) \wedge ((v3\_rlvect\_1\ X0) \wedge ((v4\_rlvect\_1\ X0) \wedge ((v8\_vectsp\_1\ X0\ k1\_complfld) \wedge ((v9\_vectsp\_1\ X0\ k1\_complfld) \wedge ((v10\_vectsp\_1\ X0\ k1\_complfld) \wedge ((v11\_vectsp\_1\ X0\ k1\_complfld) \wedge (l1\_vectsp\_1\ X0\ k1\_complfld))))))))) \Rightarrow (\forall X1.((v1\_funct\_1\ X1) \wedge ((v1\_funct\_2\ X1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\ (u1\_struct\_0\ k1\_complfld)) \wedge ((v2\_bilinear\ X1\ k1\_complfld\ X0\ X0) \wedge ((v4\_bilinear\ X1\ k1\_complfld\ X0\ X0) \wedge ((v3\_hermitan\ X1\ X0) \wedge ((v5\_hermitan\ X1\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\ (u1\_struct\_0\ k1\_complfld))))))))) \Rightarrow (k13\_bilinear\ k1\_complfld\ X0\ X0\ X1 = k14\_bilinear\ k1\_complfld\ X0\ X0\ (k3\_hermitan\ X0\ X0\ X1))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v2\_struct\_0\ X0)\wedge((v13\_algstr\_0\ X0)\wedge((v2\_rlvect\_1\ X0)\wedge((v3\_rlvect\_1\ X0)\wedge((v4\_rlvect\_1\ X0)\wedge((v8\_vectsp\_1\ X0\ k1\_complfld)\wedge((v9\_vectsp\_1\ X0\ k1\_complfld)\wedge((v10\_vectsp\_1\ X0\ k1\_complfld)\wedge((v11\_vectsp\_1\ X0\ k1\_complfld)\wedge(l1\_vectsp\_1\ X0\ k1\_complfld))))))))))\wedge(((\neg v2\_struct\_0\ X1)\wedge((v13\_algstr\_0\ X1)\wedge((v2\_rlvect\_1\ X1)\wedge((v3\_rlvect\_1\ X1)\wedge((v4\_rlvect\_1\ X1)\wedge((v8\_vectsp\_1\ X1\ k1\_complfld)\wedge((v9\_vectsp\_1\ X1\ k1\_complfld)\wedge((v10\_vectsp\_1\ X1\ k1\_complfld)\wedge((v11\_vectsp\_1\ X1\ k1\_complfld)\wedge(l1\_vectsp\_1\ X1\ k1\_complfld))))))))))\wedge((v1\_funct\_1\ X2)\wedge((v1\_funct\_2\ X2\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1))\ (u1\_struct\_0\ k1\_complfld))\wedge((v1\_bilinear\ X2\ k1\_complfld\ X0\ X1)\wedge((v2\_bilinear\ X2\ k1\_complfld\ X0\ X1)\wedge((v4\_bilinear\ X2\ k1\_complfld\ X0\ X1)\wedge((v2\_hermitan\ X2\ X0\ X1)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1))\ (u1\_struct\_0\ k1\_complfld))))))))))))\Rightarrow((v1\_funct\_1\ (k7\_hermitan\ X0\ X1\ X2))\wedge((v1\_funct\_2\ (k7\_hermitan\ X0\ X1\ X2)\ (k2\_zfmisc\_1\ (u1\_struct\_0\ (k6\_vectsp10\ k1\_complfld\ X0\ (k13\_bilinear\ k1\_complfld\ X0\ X1\ X2)))\ (u1\_struct\_0\ (k6\_vectsp10\ k1\_complfld\ X1\ (k14\_bilinear\ k1\_complfld\ X0\ X1\ (k3\_hermitan\ X0\ X1\ X2)))))\ (u1\_struct\_0\ k1\_complfld))\wedge((v1\_bilinear\ (k7\_hermitan\ X0\ X1\ X2)\ k1\_complfld\ (k6\_vectsp10\ k1\_complfld\ X0\ (k13\_bilinear\ k1\_complfld\ X0\ X1\ X2))\ (k6\_vectsp10\ k1\_complfld\ X1\ (k14\_bilinear\ k1\_complfld\ X0\ X1\ (k3\_hermitan\ X0\ X1\ X2))))\wedge((v2\_bilinear\ (k7\_hermitan\ X0\ X1\ X2)\ k1\_complfld\ (k6\_vectsp10\ k1\_complfld\ X0\ (k13\_bilinear\ k1\_complfld\ X0\ X1\ X2))\ (k6\_vectsp10\ k1\_complfld\ X1\ (k14\_bilinear\ k1\_complfld\ X0\ X1\ (k3\_hermitan\ X0\ X1\ X2))))\wedge((v4\_bilinear\ (k7\_hermitan\ X0\ X1\ X2)\ k1\_complfld\ (k6\_vectsp10\ k1\_complfld\ X0\ (k13\_bilinear\ k1\_complfld\ X0\ X1\ X2))\ (k6\_vectsp10\ k1\_complfld\ X1\ (k14\_bilinear\ k1\_complfld\ X0\ X1\ (k3\_hermitan\ X0\ X1\ X2))))\wedge((v2\_hermitan\ (k7\_hermitan\ X0\ X1\ X2)\ (k6\_vectsp10\ k1\_complfld\ X0\ (k13\_bilinear\ k1\_complfld\ X0\ X1\ X2))\ (k6\_vectsp10\ k1\_complfld\ X1\ (k14\_bilinear\ k1\_complfld\ X0\ X1\ (k3\_hermitan\ X0\ X1\ X2))))\wedge(m1\_subset\_1\ (k7\_hermitan\ X0\ X1\ X2)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ (k6\_vectsp10\ k1\_complfld\ X0\ (k13\_bilinear\ k1\_complfld\ X0\ X1\ X2)))\ (u1\_struct\_0\ (k6\_vectsp10\ k1\_complfld\ X1\ (k14\_bilinear\ k1\_complfld\ X0\ X1\ (k3\_hermitan\ X0\ X1\ X2)))))\ (u1\_struct\_0\ k1\_complfld))))))))))) \tag{2}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v13\_algstr\_0\ X0)\wedge((v2\_rlvect\_1\ X0)\wedge((v3\_rlvect\_1\ X0)\wedge((v4\_rlvect\_1\ X0)\wedge((v8\_vectsp\_1\ X0\ k1\_complfld)\wedge((v9\_vectsp\_1\ X0\ k1\_complfld)\wedge((v10\_vectsp\_1\ X0\ k1\_complfld)\wedge((v11\_vectsp\_1\ X0\ k1\_complfld)\wedge(l1\_vectsp\_1\ X0\ k1\_complfld))))))))))\Rightarrow(\forall X1.((v1\_funct\_1\ X1)\wedge((v1\_funct\_2\ X1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\ (u1\_struct\_0\ k1\_complfld))\wedge((v2\_bilinear\ X1\ k1\_complfld\ X0\ X0)\wedge((v4\_bilinear\ X1\ k1\_complfld\ X0\ X0)\wedge((v3\_hermitan\ X1\ X0)\wedge((v5\_hermitan\ X1\ X0)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\ (u1\_struct\_0\ k1\_complfld))))))))))\Rightarrow(k8\_hermitan\ X0\ X1 = k7\_hermitan\ X0\ X0\ X1)) \tag{3}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v13\_algstr\_0\ X0)\wedge((v2\_rlvect\_1\ X0)\wedge((v3\_rlvect\_1\ X0)\wedge((v4\_rlvect\_1\ X0)\wedge((v8\_vectsp\_1\ X0\ k1\_complfld)\wedge((v9\_vectsp\_1\ X0\ k1\_complfld)\wedge((v10\_vectsp\_1\ X0\ k1\_complfld)\wedge((v11\_vectsp\_1\ X0\ k1\_complfld)\wedge(l1\_vectsp\_1\ X0\ k1\_complfld))))))))))\Rightarrow(\forall X1.((\neg v2\_struct\_0\ X1)\wedge((v13\_algstr\_0\ X1)\wedge((v2\_rlvect\_1\ X1)\wedge((v3\_rlvect\_1\ X1)\wedge((v4\_rlvect\_1\ X1)\wedge((v8\_vectsp\_1\ X1\ k1\_complfld)\wedge((v9\_vectsp\_1\ X1\ k1\_complfld)\wedge((v10\_vectsp\_1\ X1\ k1\_complfld)\wedge((v11\_vectsp\_1\ X1\ k1\_complfld)\wedge(l1\_vectsp\_1\ X1\ k1\_complfld))))))))))\Rightarrow(\forall X2.((v1\_funct\_1\ X2)\wedge((v1\_funct\_2\ X2\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1))\ (u1\_struct\_0\ k1\_complfld))\wedge((v1\_bilinear\ X2\ k1\_complfld\ X0\ X1)\wedge((v2\_bilinear\ X2\ k1\_complfld\ X0\ X1)\wedge((v4\_bilinear\ X2\ k1\_complfld\ X0\ X1)\wedge((v2\_hermitan\ X2\ X0\ X1)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1))\ (u1\_struct\_0\ k1\_complfld))))))))))\Rightarrow(\forall X3.((v1\_funct\_1\ X3)\wedge((v1\_funct\_2\ X3\ (k2\_zfmisc\_1\ (u1\_struct\_0\ (k6\_vectsp10\ k1\_complfld\ X0\ (k13\_bilinear\ k1\_complfld\ X0\ X1\ X2)))\ (u1\_struct\_0\ (k6\_vectsp10\ k1\_complfld\ X1\ (k14\_bilinear\ k1\_complfld\ X0\ X1\ (k3\_hermitan\ X0\ X1\ X2)))))\ (u1\_struct\_0\ k1\_complfld))\wedge((v1\_bilinear\ X3\ k1\_complfld\ (k6\_vectsp10\ k1\_complfld\ X0\ (k13\_bilinear\ k1\_complfld\ X0\ X1\ X2))\ (k6\_vectsp10\ k1\_complfld\ X1\ (k14\_bilinear\ k1\_complfld\ X0\ X1\ (k3\_hermitan\ X0\ X1\ X2))))\wedge((v2\_bilinear\ X3\ k1\_complfld\ (k6\_vectsp10\ k1\_complfld\ X0\ (k13\_bilinear\ k1\_complfld\ X0\ X1\ X2))\ (k6\_vectsp10\ k1\_complfld\ X1\ (k14\_bilinear\ k1\_complfld\ X0\ X1\ (k3\_hermitan\ X0\ X1\ X2))))\wedge((v4\_bilinear\ X3\ k1\_complfld\ (k6\_vectsp10\ k1\_complfld\ X0\ (k13\_bilinear\ k1\_complfld\ X0\ X1\ X2))\ (k6\_vectsp10\ k1\_complfld\ X1\ (k14\_bilinear\ k1\_complfld\ X0\ X1\ (k3\_hermitan\ X0\ X1\ X2))))\wedge((v2\_hermitan\ X3\ (k6\_vectsp10\ k1\_complfld\ X0\ (k13\_bilinear\ k1\_complfld\ X0\ X1\ X2))\ (k6\_vectsp10\ k1\_complfld\ X1\ (k14\_bilinear\ k1\_complfld\ X0\ X1\ (k3\_hermitan\ X0\ X1\ X2))))\wedge(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ (k6\_vectsp10\ k1\_complfld\ X0\ (k13\_bilinear\ k1\_complfld\ X0\ X1\ X2)))\ (u1\_struct\_0\ (k6\_vectsp10\ k1\_complfld\ X1\ (k14\_bilinear\ k1\_complfld\ X0\ X1\ (k3\_hermitan\ X0\ X1\ X2)))))\ (u1\_struct\_0\ k1\_complfld))))))))))\Rightarrow((X3 = k7\_hermitan\ X0\ X1\ X2)\Leftrightarrow(\forall X4.(m1\_subset\_1\ X4\ (u1\_struct\_0\ (k6\_vectsp10\ k1\_complfld\ X0\ (k13\_bilinear\ k1\_complfld\ X0\ X1\ X2))))\Rightarrow(\forall X5.(m1\_subset\_1\ X5\ (u1\_struct\_0\ (k6\_vectsp10\ k1\_complfld\ X1\ (k14\_bilinear\ k1\_complfld\ X0\ X1\ (k3\_hermitan\ X0\ X1\ X2)))))\Rightarrow(\forall X6.(m1\_subset\_1\ X6\ (u1\_struct\_0\ X0))\Rightarrow(\forall X7.(m1\_subset\_1\ X7\ (u1\_struct\_0\ X1))\Rightarrow(((X4 = k3\_vectsp\_4\ k1\_complfld\ X0\ X6\ (k13\_bilinear\ k1\_complfld\ X0\ X1\ X2))\wedge(X5 = k3\_vectsp\_4\ k1\_complfld\ X1\ X7\ (k14\_bilinear\ k1\_complfld\ X0\ X1\ (k3\_hermitan\ X0\ X1\ X2))))\Rightarrow(k2\_binop\_1\ (u1\_struct\_0\ (k6\_vectsp10\ k1\_complfld\ X0\ (k13\_bilinear\ k1\_complfld\ X0\ X1\ X2)))\ (u1\_struct\_0\ (k6\_vectsp10\ k1\_complfld\ X1\ (k14\_bilinear\ k1\_complfld\ X0\ X1\ (k3\_hermitan\ X0\ X1\ X2))))\ (u1\_struct\_0\ k1\_complfld)\ X3\ X4\ X5 = k2\_binop\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1)\ (u1\_struct\_0\ k1\_complfld)\ X2\ X6\ X7)))))))))) \tag{4}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_vectsp\_1\ X0\ k1\_complfld))\Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\ (u1\_struct\_0\ X0))\ (u1\_struct\_0\ k1\_complfld))))\Rightarrow (((v1\_funct\_1\ X1)\wedge((v1\_funct\_2\ X1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\ (u1\_struct\_0\ k1\_complfld))\wedge((v4\_bilinear\ X1\ k1\_complfld\ X0\ X0)\wedge(v3\_hermitan\ X1\ X0))))\Rightarrow((v1\_funct\_1\ X1)\wedge((v1\_funct\_2\ X1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\ (u1\_struct\_0\ k1\_complfld))\wedge(v2\_hermitan\ X1\ X0\ X0)))) \tag{5}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_vectsp\_1\ X0\ k1\_complfld))\Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\ (u1\_struct\_0\ X0))\ (u1\_struct\_0\ k1\_complfld))))\Rightarrow (((v1\_funct\_1\ X1)\wedge((v1\_funct\_2\ X1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\ (u1\_struct\_0\ k1\_complfld))\wedge((v2\_bilinear\ X1\ k1\_complfld\ X0\ X0)\wedge(v3\_hermitan\ X1\ X0))))\Rightarrow((v1\_funct\_1\ X1)\wedge((v1\_funct\_2\ X1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\ (u1\_struct\_0\ k1\_complfld))\wedge(v1\_bilinear\ X1\ k1\_complfld\ X0\ X0)))) \tag{6}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v13\_algstr\_0\ X0)\wedge((v2\_rlvect\_1\ X0)\wedge((v3\_rlvect\_1\ X0)\wedge((v4\_rlvect\_1\ X0)\wedge((v8\_vectsp\_1\ X0\ k1\_complfld)\wedge((v9\_vectsp\_1\ X0\ k1\_complfld)\wedge((v10\_vectsp\_1\ X0\ k1\_complfld)\wedge((v11\_vectsp\_1\ X0\ k1\_complfld)\wedge(l1\_vectsp\_1\ X0\ k1\_complfld))))))))))\Rightarrow (\forall X1.((v1\_funct\_1\ X1)\wedge((v1\_funct\_2\ X1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\ (u1\_struct\_0\ k1\_complfld))\wedge((v2\_bilinear\ X1\ k1\_complfld\ X0\ X0)\wedge((v4\_bilinear\ X1\ k1\_complfld\ X0\ X0)\wedge((v3\_hermitan\ X1\ X0)\wedge((v5\_hermitan\ X1\ X0)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\ (u1\_struct\_0\ k1\_complfld))))))))))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ (k6\_vectsp10\ k1\_complfld\ X0\ (k13\_bilinear\ k1\_complfld\ X0\ X0\ X1))))\Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ (k6\_vectsp10\ k1\_complfld\ X0\ (k13\_bilinear\ k1\_complfld\ X0\ X0\ X1))))\Rightarrow(\forall X4.(m1\_subset\_1\ X4\ (u1\_struct\_0\ X0))\Rightarrow(\forall X5.(m1\_subset\_1\ X5\ (u1\_struct\_0\ X0))\Rightarrow(((X2 = k3\_vectsp\_4\ k1\_complfld\ X0\ X4\ (k13\_bilinear\ k1\_complfld\ X0\ X0\ X1))\wedge(X3 = k3\_vectsp\_4\ k1\_complfld\ X0\ X5\ (k13\_bilinear\ k1\_complfld\ X0\ X0\ X1)))\Rightarrow(k2\_binop\_1\ (u1\_struct\_0\ (k6\_vectsp10\ k1\_complfld\ X0\ (k13\_bilinear\ k1\_complfld\ X0\ X0\ X1)))\ (u1\_struct\_0\ (k6\_vectsp10\ k1\_complfld\ X0\ (k13\_bilinear\ k1\_complfld\ X0\ X0\ X1)))\ (u1\_struct\_0\ k1\_complfld)\ (k8\_hermitan\ X0\ X1)\ X2\ X3 = k2\_binop\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ k1\_complfld)\ X1\ X4\ X5)))))))$$