

t24\_e\_siec  
 (TMaCR3XNkHCLSEEn5AGZnpazFSSrBM6ToVS)

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Let  $v2\_e\_siec : \iota \Rightarrow o$  be given. Let  $v3\_e\_siec : \iota \Rightarrow o$  be given. Let  $l1\_e\_siec : \iota \Rightarrow o$  be given. Let  $k3\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $u2\_e\_siec : \iota \Rightarrow \iota$  be given. Let  $k4\_relat\_1 : \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $u1\_e\_siec : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned}
 & \forall X0.((v2\_e\_siec X0) \wedge ((v3\_e\_siec X0) \wedge (l1\_e\_siec X0))) \Rightarrow \\
 & ((k3\_relat\_1 (k4\_xboole\_0 (u1\_e\_siec X0) (k4\_relat\_1 (u1\_struct\_0 X0))) (k4\_xboole\_0 (u1\_e\_siec X0) (k4\_relat\_1 (u1\_struct\_0 X0))) = \\
 & k1\_xboole\_0) \wedge ((k3\_relat\_1 (k4\_xboole\_0 (u2\_e\_siec X0) (k4\_relat\_1 (u1\_struct\_0 X0))) (k4\_xboole\_0 (u2\_e\_siec X0) (k4\_relat\_1 (u1\_struct\_0 X0))) = \\
 & k1\_xboole\_0) \wedge ((k3\_relat\_1 (k4\_xboole\_0 (u1\_e\_siec X0) (k4\_relat\_1 (u1\_struct\_0 X0))) (k4\_xboole\_0 (u2\_e\_siec X0) (k4\_relat\_1 (u1\_struct\_0 X0))) = \\
 & k1\_xboole\_0) \wedge (k3\_relat\_1 (k4\_xboole\_0 (u2\_e\_siec X0) (k4\_relat\_1 (u1\_struct\_0 X0))) (k4\_xboole\_0 (u1\_e\_siec X0) (k4\_relat\_1 (u1\_struct\_0 X0))) = \\
 & k1\_xboole\_0)))))) = k1\_xboole\_0))
 \end{aligned} \tag{1}$$

**Theorem 1**

$$\begin{aligned}
 & \forall X0.((v2\_e\_siec X0) \wedge ((v3\_e\_siec X0) \wedge (l1\_e\_siec X0))) \Rightarrow \\
 & ((k3\_relat\_1 (k4\_xboole\_0 (u2\_e\_siec X0) (k4\_relat\_1 (u1\_struct\_0 X0))) (k4\_xboole\_0 (u2\_e\_siec X0) (k4\_relat\_1 (u1\_struct\_0 X0))) = \\
 & k1\_xboole\_0) \wedge ((k3\_relat\_1 (k4\_xboole\_0 (u1\_e\_siec X0) (k4\_relat\_1 (u1\_struct\_0 X0))) (k4\_xboole\_0 (u1\_e\_siec X0) (k4\_relat\_1 (u1\_struct\_0 X0))) = \\
 & k1\_xboole\_0) \wedge ((k3\_relat\_1 (k4\_xboole\_0 (u2\_e\_siec X0) (k4\_relat\_1 (u1\_struct\_0 X0))) (k4\_xboole\_0 (u1\_e\_siec X0) (k4\_relat\_1 (u1\_struct\_0 X0))) = \\
 & k1\_xboole\_0) \wedge (k3\_relat\_1 (k4\_xboole\_0 (u1\_e\_siec X0) (k4\_relat\_1 (u1\_struct\_0 X0))) (k4\_xboole\_0 (u2\_e\_siec X0) (k4\_relat\_1 (u1\_struct\_0 X0))) = \\
 & k1\_xboole\_0)))))) = k1\_xboole\_0))
 \end{aligned}$$