

t4_monoid_0 (TMRAgFZnrTwe- ciwQ7yiHH2KBRMUuu179zSJ)

October 27, 2020

Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l3_algstr_0 : \iota \Rightarrow o$ be given. Let $v1_group_1 : \iota \Rightarrow o$ be given. Let $r3_binop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k4_binop_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u2_algstr_0 : \iota \Rightarrow \iota$ be given. Let $k1_group_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v1_group_1 X0) \wedge (l3_algstr_0 X0))) \Rightarrow (k4_binop_1 (u1_struct_0 X0) (u2_algstr_0 X0) = k1_group_1 X0) \quad (1)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v1_group_1 X0) \wedge (l3_algstr_0 X0))) \Rightarrow (r3_binop_1 (u1_struct_0 X0) (k1_group_1 X0) (u2_algstr_0 X0)) \quad (2)$$

Theorem 1

$$\forall X0. ((\neg v2_struct_0 X0) \wedge (l3_algstr_0 X0)) \Rightarrow ((v1_group_1 X0) \Rightarrow (r3_binop_1 (u1_struct_0 X0) (k4_binop_1 (u1_struct_0 X0) (u2_algstr_0 X0)) (u2_algstr_0 X0)))$$