t18_int_2 (TMM9v8YoZajoKA93oasui2VUywJDWAMnByM)

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Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Let $r1\_int\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_int\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.((v1\_int\_1\ X0) \wedge (v1\_int\_1\ X1)) \Rightarrow (v7\_ordinal1\ (k2\_int\_2\ X0\ X1)) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow (\forall X1.(v1\_int\_1\ X1) \Rightarrow (\forall X2.\ (v7\_ordinal1\ X2) \Rightarrow ((X2 = k2\_int\_2\ X0\ X1) \Leftrightarrow ((r1\_int\_1\ X0\ X2) \wedge ((r1\_int\_1\ X1\ X2) \wedge (\forall X3.(v1\_int\_1\ X3) \Rightarrow (((r1\_int\_1\ X0\ X3) \wedge (r1\_int\_1\ X1\ X3)) \Rightarrow (r1\_int\_1\ X2\ X3)))))))) \tag{2}$$

Theorem 1

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow (\forall X1.(v1\_int\_1\ X1) \Rightarrow (r1\_int\_1\ X0\ (k2\_int\_2\ X0\ X1)))$$