

## t8\_radix\_3

(TMPmQ2GErqqtTUAcEXbMMicb4rMJthcBxL8)

October 27, 2020

Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k2\_radix\_3 : \iota \Rightarrow \iota$  be given. Let  $v1\_int\_1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_numbers : \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_xcmplx\_0 : \iota \Rightarrow \iota$  be given. Let  $k1\_radix\_1 : \iota \Rightarrow \iota$  be given. Let  $k7\_nat\_d : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0.(v7\_ordinal1 X0) \Rightarrow (k2\_radix\_3 X0 = ReplSep (toset (\lambda X1 : \\ \iota.m1\_subset\_1 X1 k4\_numbers)) (\lambda X1 : \iota.(r1\_xxreal\_0 (k6\_xcmplx\_0 \\ (k4\_xcmplx\_0 (k1\_radix\_1 (k7\_nat\_d X0 np\_1)))) np\_1) X1) \wedge (r1\_xxreal\_0 \\ X1 (k1\_radix\_1 (k7\_nat\_d X0 np\_1)))) (\lambda X1 : \iota.X1)) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k4\_numbers) \Rightarrow (v1\_int\_1 X0) \quad (2)$$

### Theorem 1

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.(X1 \in k2\_radix\_3 X0) \Rightarrow (v1\_int\_1 X1))$$