

Inference at * 1 1
of proof for Lemma list_extensionality:

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1. T : Type
2. T List
3. u : T
4. v : T List
5. ∀b:(T List). (||v|| = ||b||) ⇒ (∀i:ℕ. (i < ||v||) ⇒ (v[i] = b[i])) ⇒ (v = b)
6. T List
7. u₁ : T
8. v₁ : T List
9. (||[u / v]|| = ||v₁||)
   ⇒ (∀i:ℕ. (i < ||[u / v]||) ⇒ ([u / v][i] = v₁[i]))
   ⇒ ([u / v] = v₁)
10. ||v||+1 = ||v₁||+1
11. ∀i:ℕ. (i < (||v||+1)) ⇒ ([u / v][i] = [u₁ / v₁][i])
⊢[u / v] = [u₁ / v₁]
  by ((EqCD)
    CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 1000:n)
      )) (first_tok :t) inil_term)))

1: .....subterm..... T:t1:n

  ⊢ u = u₁
2: .....subterm..... T:t2:n

  ⊢ v = v₁
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