

Inference at * 1 1
of proof for Lemma eq_int_eq_true_elim_sqeual:

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1.  $i : \mathbb{Z}$ 
2.  $j : \mathbb{Z}$ 
3.  $(i =_0 j) \sim \text{tt}$ 
 $\vdash i = j$ 
  by (\p. let x, y = dest_sqeual (h (-1) p) in
    (Assert (
mk_equal_term bool_term y y)
      THENL [(Auto_aux (first_nat 1:n) ((first_nat 1:n
), (first_nat 3:n)) (first_tok :t) inil_term); SqSubstAtAddr [2] x (-1)

      THENL [(Auto_aux (first_nat 1:n) ((first_nat 1:n), (first_nat 4:n
)) (first_tok :t) inil_term); Id]]) p)

1:

  4.  $(i =_0 j) = \text{tt}$ 
   $\vdash i = j$ 
  .

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