

Inference at \* 1  
of proof for Lemma fseg\_transitivity:

1.  $T$  : Type
  2.  $l_1$  :  $T$  List
  3.  $l_2$  :  $T$  List
  4.  $l_3$  :  $T$  List
  5.  $L_1$  :  $T$  List
  6.  $l_2 = (L_1 @ l_1)$
  7.  $L$  :  $T$  List
  8.  $l_3 = (L @ l_2)$
- $\vdash \exists L@_0:T \text{ List. } ((L @ L_1 @ l_1) = (L@_0 @ l_1))$   
by ((InstConcl [L @ L\_1])  
CollapseTHEN (Auto·)).

1:

$$\vdash (L @ L_1 @ l_1) = ((L @ L_1) @ l_1)$$

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