

Inference at * 1
of proof for Lemma multiply_functionality_wrt_le:

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1.  $i_1 : \mathbb{N}$ 
2.  $i_2 : \mathbb{N}$ 
3.  $j_1 : \mathbb{N}$ 
4.  $j_2 : \mathbb{N}$ 
5.  $i_1 \leq j_1$ 
6.  $i_2 \leq j_2$ 
 $\vdash (i_1 * i_2) \leq (j_1 * j_2)$ 
  by ((Using ['n',i1] (FwdThruLemma 'mul_preserves_le' [6]))
  CollapseTHEN (
    (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

1:

7.  $(i_1 * i_2) \leq (i_1 * j_2)$ 
 $\vdash (i_1 * i_2) \leq (j_1 * j_2)$ 
.

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