

Inference at * 2 1 1 1
of proof for Lemma fseg_select:

....assertion.... NILNIL

1. $T : \text{Type}$
2. $l_1 : T \text{ List}$
3. $l_2 : T \text{ List}$
4. $\|l_1\| \leq \|l_2\|$
5. $\forall i:\mathbb{N}. (i < \|l_1\|) \Rightarrow (l_1[i] = l_2[(\|l_2\| - \|l_1\|)+i])$
 $\vdash l_1 = \text{nth_tl}(\|l_2\| - \|l_1\|; l_2)$
by ((BLemma 'list_extensionality'
CollapseTHEN (Auto·)).

1:

$\vdash \|l_1\| = \|\text{nth_tl}(\|l_2\| - \|l_1\|; l_2)\|$

2:

6. $i : \mathbb{N}$

7. $i < \|l_1\|$

$\vdash l_1[i] = \text{nth_tl}(\|l_2\| - \|l_1\|; l_2)[i]$

.