

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

1. $T : \text{Type}$
 2. $l_1 : T \text{ List}$
 3. $l_2 : T \text{ List}$
 4. $\|l_1\| \leq \|l_2\|$
 5. $\forall i:\mathbb{N}. (i < \|l_1\|) \Rightarrow (l_1[i] = l_2[(\|l_2\| - \|l_1\|) + i])$
- $\vdash l_2 = (\text{firstn}(\|l_2\| - \|l_1\|; l_2) @ l_1)$
by Assert $l_1 = \text{nth_tl}(\|l_2\| - \|l_1\|; l_2)$

1:assertion..... NILNIL

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

2:

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

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

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