

Inference at * 2 1
of proof for Lemma select_nth_tl:

...truecase.... NILNIL

1. T : Type
2. T List
3. u : T
4. v : T List
5. $\forall n:\{0.. \|v\|\}, i:\{0..(\|v\| - n)^-\}. \text{nth_tl}(n;v)[i] = v[(i+n)]$
6. n : $\{0.. \|v\|+1\}$
7. i : $\{0..(\|v\|+1) - n\}^-$
8. $n \leq 0$

$\vdash [u / v][i] = [u / v][(i+n)]$
by ((Assert $n = 0$)
CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 2:n
,(first_nat 3:n)) (first_tok :t) inil_term))))).

1:

9. $n = 0$
 $\vdash [u / v][i] = [u / v][(i+n)]$