Inference at * 2 1 1 0
 of proof for Lemma select_nth_tl:

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

$\vdash$ [u / v][i] = [u / v][(i+n)]
 by PERMUTE{1:n, 2:n, 1:n, 3:n, 4:n, 5:n, 4:n, 6:n, 7:n, 8:n, 9:n}

1: .....wf..... NILNIL

 $\vdash T = T$
2: .....wf..... NILNIL

 $\vdash$ [u / v][i] = [u / v][i]
3: .....wf..... NILNIL

 $\vdash$ [u / v] = [u / v]
4: .....wf..... NILNIL

 $\vdash i \in \mathbb{Z}$
5: .....wf..... NILNIL

 $\vdash n \in \mathbb{Z}$
6: .....wf..... NILNIL

 $\vdash 0 \in \mathbb{Z}$
7:

 $\vdash i = i$
8: .....antecedent..... NILNIL

 $\vdash (0 \leq (i+n)) \ \& \ ((i+n) < \|[u \ / \ v]\|)$
9:

 $\vdash$ [u / v][i] = [u / v][(i+0)]
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http://www.nuprl.org/FDLcontent/p0_963683_/p121_58888_{select_nth_tl}2_1_1_0.html