Inference at $*$
of proof for Lemma nth_tl_append:

$\vdash \forall T$:Type, as, bs:(T List). nth_tl($\|as\|$;as @ bs) $\sim$ bs
by ((InductionOnList)
CollapseTHEN (Reduce 0))·

1:

1. T : Type
2. T List

$\vdash \forall bs$:(T List). $bs \sim bs$

2:

1. T : Type
2. T List
3. u : T
4. v : T List
5. $\forall bs$:(T List). nth_tl($\|v\|$;v @ bs) $\sim$ bs

$\vdash \forall bs$:(T List). nth_tl($\|v\|$+1;[u / (v @ bs)]) $\sim$ bs

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http://www.nuprl.org/FDLcontent/p0_963683_/p28_1028371_{nth_tl_append}.html