Inference at $*$ 1
of proof for Lemma fseg_extend:

1. T : Type
2. l_1 : T List
3. v : T
4. l_2 : T List
5. L : T List
6. $l_2 = (L \mathbin{@} l_1)$
7. $\|l_1\| < \|l_2\|$
8. $l_2[(\|l_2\| - (\|l_1\|+1))] = v$
9. $\neg(\uparrow\text{null}(L))$
10. $\exists L'{:}T$ List. $(L = (L' \mathbin{@} [\text{last}(L)]))$

$\vdash \exists L@_0{:}T$ List. $((L \mathbin{@} l_1) = (L@_0 \mathbin{@} [v / l_1]))$

by ((((ParallelOp (-1)·)
CollapseTHEN (((((if (first_bool T:b
) then HypSubst' else RevHypSubst') (-1)(0))·)
CollapseTHEN (Auto·))·))·)

CollapseTHEN (((RWO "append_assoc" 0)
CollapseTHENA (Auto·))·))·

1:

10. L' : T List
11. $L = (L' \mathbin{@} [\text{last}(L)])$

$\vdash (L' \mathbin{@} [\text{last}(L)] \mathbin{@} l_1) = (L' \mathbin{@} [v / l_1])$

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