

Inference at * 1 2 2
of proof for Lemma adjacent-append:

....wf.... NILNIL

1. $T : \text{Type}$
2. $x : T$
3. $y : T$
4. $L_1 : T \text{ List}$
5. $L_2 : T \text{ List}$
6. $i : \{0..(\|L_1 @ L_2\| - 1)^-\}$
7. $x = (L_1 @ L_2)[i]$
8. $y = (L_1 @ L_2)[(i+1)]$
9. $\neg(i < \|L_1\|)$
10. $0 < \|L_1\|$
11. $0 < \|L_2\|$

$\vdash \neg(\uparrow \text{null}(L_1))$
by ((DVar 'L1')
CollapseTHEN (((All Reduce)
CollapseTHEN (Auto·)).·).

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