

Inference at * 1 0
of proof for Lemma zip_wf:

....subterm.... T:t2:n

1. $T_1 : \text{Type}$
 2. $T_2 : \text{Type}$
 3. $T_1 \text{ List}$
 4. $u : T_1$
 5. $v : T_1 \text{ List}$
 6. $\forall bs:(T_2 \text{ List}). \text{zip}(v;bs) \in ((:T_1 \times T_2) \text{ List})$
 7. $T_2 \text{ List}$
 8. T_2
 9. $v_1 : T_2 \text{ List}$
 10. $\text{rec-case}(v_1) \text{ of } [] \Rightarrow [] \mid b::bs' \Rightarrow .[<u, b> / \text{zip}(v;bs')] \in ((:T_1 \times T_2) \text{ List})$
- $\vdash \text{zip}(v;v_1) \in ((:T_1 \times T_2) \text{ List})$
by DupHyp (6)
THEN (GuardBody (-1)
THEN InstGenHypByAddr (-1) [] [!ml_var(bs), v_1]) THENA (Auto')
THEN ml_nth.hyp((-1))

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