Inference at $*$ 2 2 1
of proof for Lemma member-zip:

1. A : Type
2. B : Type
3. A List
4. u : A
5. v : A List
6. $\forall ys$:(B List), x:A, y:B. ($<x, y> \in \text{zip}(v;ys)$) $\Rightarrow$ {($x \in v$) & ($y \in ys$)}
7. B List
8. u_1 : B
9. v_1 : B List
10. $\forall x$:A, y:B. ($<x, y> \in \text{zip}([u / v];v_1)$) $\Rightarrow$ {($x \in [u / v]$) & ($y \in v_1$)}
11. x : A
12. y : B
13. $<x, y> = <u, u_1>$

$\vdash$ {($x \in [u / v]$) & ($y \in [u_1 / v_1]$)}
by EqHD (-1) THEN All Reduce THEN Auto

THEN Unfold ‘guard‘ 0 THEN RWO ”cons_member” 0 THEN Auto
THEN OrLeft THEN Auto

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http://www.nuprl.org/FDLcontent/p0_963683_/p41_183778_{member-zip}2_2_1.html