```
list_all_2_all  THM

⊢  ∀P:(T→𝔹), L:T List. ∀x∈₂L.P(x) ⇒ ∀x∈L.P(x)  by UnivCD
|
1. T : Type
2. P : T→𝔹
3. L : T List
4. ∀x∈₂L.P(x)
⊢  ∀x∈L.P(x)  by MoveToConcl -1 THEN ListInd -1 THEN AbReduce 0
|
|\
| 4. u : T
| 5. v : T List
| 6. ∀x∈₂v.P(x) ⇒ ∀x∈v.P(x)
| 7. P(u)∧₂∀x∈₂v.P(x)
| ⊢  P(u)
|   by FwdThru Thm* ∀p,q:𝔹. (p∧₂q) ⟺ p & q    {assert_of_band} [-1]
|
.\
. 4. u : T
. 5. v : T List
. 6. ∀x∈₂v.P(x) ⇒ ∀x∈v.P(x)
. 7. P(u)∧₂∀x∈₂v.P(x)
. ⊢  ∀x∈v.P(x)
. | by Sel 2
. |    (FwdThru Thm* ∀p,q:𝔹. (p∧₂q) ⟺ p & q    {assert_of_band}
. |     [-1])
. |
. 8. ∀x∈₂v.P(x)
. ⊢  ∀x∈v.P(x)  by HypBackchain
END
```