```
void_union_list  THM

⊢  ∀V,T:Type, l:(Void+T)*. l ∈ (V+T)*  by UnivCD
|
1. V : Type
2. T : Type
3. l : (Void+T)*
⊢  l ∈ (V+T)*  by ListInd -1
|
|\
| ⊢  nil ∈ (V+T)*  by Auto
|
.\
. 4. u : Void+T
. 5. v : (Void+T)*
. 6. v ∈ (V+T)*
. ⊢  u.v ∈ (V+T)*  by Analyze
. |
. |\
. | ⊢  u ∈ V+T  by BackThru: Thm* ∀l:Void+T. l ∈ V+T    {void_union}
. |
. .\
. . ⊢  v ∈ (V+T)*  by Hypothesis
END
```