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hone_ty_def  THM

⊢  exists(λrep:hone → hbool. type_definition((λb:hbool. b),rep))
| by HN THEN StrongAuto
|
⊢  ∃rep:(Unit→𝔹). type_definition(𝔹;Unit;λb:𝔹. b;rep)
| by DTerm (λx:Unit. true₂) 0 THEN Unab [‘type_definition‘] THEN Simp
|    THEN
|    StrongAuto
|
|\
| 1. x’ : Unit
| 2. x’’ : Unit
| 3. true₂ = true₂
| ⊢  x’ = x’’
|   by RW
|      (let C t
|           ≡ SubtermC t
|             (LemmaC Thm* ∀a:Unit. a = ·    {unit_triviality}) in
|       C x’ THENC C x’’)
|      0
|      THEN
|      StrongAuto
|      THEN
|      Try (Complete (Unfold ‘label‘ 0))
|
|\
| 1. x : 𝔹
| 2. x
| ⊢  ∃x’:Unit. x = true₂
|   by DTerm · 0 THEN StrongAuto
|      THEN
|      Try (Complete (Unfold ‘label‘ 0))
|      THEN
|      BoolInd 1
|      THEN
|      Simp
|      THEN
|      StrongAuto
|
.\
. 1. x : 𝔹
. 2. ∃x’:Unit. x = true₂
. ⊢  x  by Analyze 2 THEN BoolInd 1 THEN Simp THEN StrongAuto
END
```