fpf-cap-single1 THM

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⊢  ∀A:Type, eq:EqDecider(A), x:A, v,z:Top. x : v(x)?z ~ v
| by UnivCD THEN Unfolds [‘fpf-cap‘;‘fpf-single‘] 0
|    THEN
|    Unfold ‘fpf-dom‘ 0
|    THEN
|    Reduce 0
|    THEN
|    Subst’ (eqof(eq)(x,x) = true2) 0
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| 1. A : Type
| 2. eq : EqDecider(A)
| 3. x : A
| 4. Top
| 5. Top
| ⊢  eqof(eq)(x,x) = true2
| | by Analyze 2 THEN Unfold ‘eqof‘ 0 THEN Reduce 0
| |    THEN
| |    AutoBoolCase (e1(x,x))
| |    THEN
| |    Analyze -1
| |
| 1. A : Type
| 2. e1 : A→A→𝔹
| 3. ∀x,y:A. x = y ⟺ e1(x,y)
| 4. x : A
| 5. Top
| 6. Top
| ⊢  e1(x,x)  by BackThruSomeHyp
|
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. 1. A : Type
. 2. eq : EqDecider(A)
. 3. x : A
. 4. v : Top
. 5. z : Top
. ⊢  if true2 ∨2 false2→ <[x],λx.v>(x) else z fi ~ v
.   by Unfold ‘fpf-ap‘ 0 THEN Reduce 0
END
```